Electrical and Electronic Wire & Cable Products

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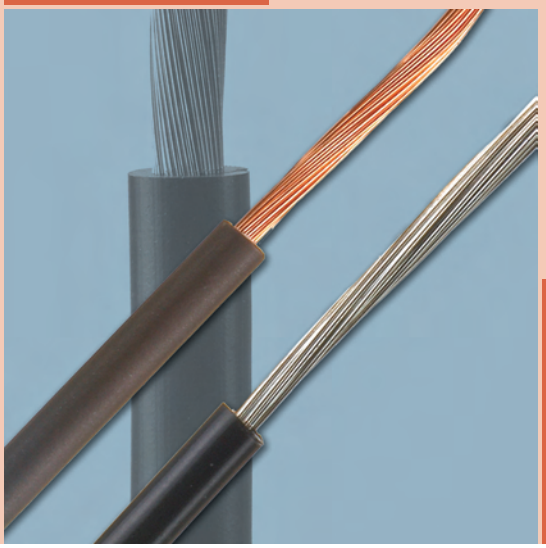

Hook-up and Lead Wire

alpha

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LEAD & HOOK-UP WIRE
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Coleman Cable Inc.
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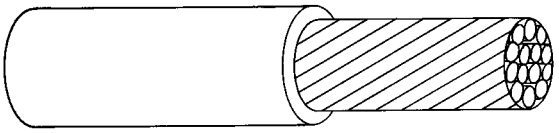
UL-Style

1007 (0.015 in. Wall, 300 V)



PVC insulation

Stranded and solid conductor

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. STANDARDS: UL recognized AWM Styles 1007/1569 per UL 758. Styles 1007/1569 (28-16 AWG) and 1569/1581 (14-10 AWG) pass VW-1 vertical flame test. CSA AWM I A/B, TR-64. All sizes pass FT-1 flame test
4. TEMPERATURE: -10°C to 80°C (UL Style 1007/1581), 105°C (UL Style 1569), 90°C (CSA)
5. VOLTAGE: 300 V

APPLICATIONS

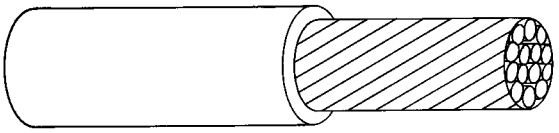
Internal wiring of electrical and electronic equipment.

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
1007-28/7-XX	28	7x36	0.015	0.047	1.6
1007-26/1-XX	26	Solid	0.016	0.048	1.8
1007-26/7-XX	26	7x34	0.019	0.050	2.0
1007-24/1-XX	24	Solid	0.020	0.052	2.4
1007-24/7-XX	24	7x32	0.024	0.057	2.8
1007-22/1-XX	22	Solid	0.025	0.062	3.3
1007-22/7-XX	22	7x30	0.030	0.062	3.7
1007-20/10-XX	20	10x30	0.037	0.067	4.8
1007-18/1-XX	18	Solid	0.040	0.079	6.7
1007-18/16-XX	18	16x30	0.048	0.079	7.0
1007-16/26-XX	16	26x30	0.060	0.091	10.5
1569-14/41-XX	14	41x30	0.075	0.110	15.0
1569-12/65-XX	12	65x30	0.096	0.123	23.0
1569-10/105-XX	10	105x30	0.130	0.161	35.0

All part numbers require color code designation.
See Color Code chart at the end of this section.
If conductor coating differs from standard part number add identifier after stranding (i.e., UL 1007 16/26 prebond light blue with white stripe = 1007-16/26P-L69).
28 through 16 AWG also rated 1569, AWM/TR 64(CSA).
14 AWG rated as 1569/1581, AWM/TR 64.
12 and 10 AWG rated as 1569/1581, AWM.

UL-Style

1015 (0.030 in. Wall, 600 V)



PVC

Stranded and solid conductor

UL AWM

CSA TEW or AWM

SPECIFICATIONS

1. CONDUCTOR: Tinned copper (also available with bare copper conductor)
2. INSULATION: Polyvinyl Chloride (PVC)
3. STANDARDS: UL recognized AWM Style 1015 per 758. Passes VW-1 vertical flame test. CSA TEW or AWM
4. TEMPERATURE: -40°C to 105°C
5. VOLTAGE: 600 V

APPLICATIONS

Internal wiring of electrical and electronic equipment.

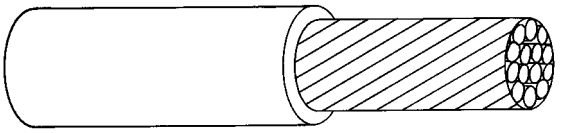
All part numbers require color code designation. See Color Code chart at the end of this section. If conductor coating differs from standard part number add identifier after stranding (i.e., UL 1015 16/26 prebond light blue with white stripe = 1015-16/26P-L69, BC for bare copper). UL 1015 may also carry UL style recognition for styles 1011, 1032, 1230, 1335 and may be listed UL Type MTW per UL 1063 requirements. Sizes 16-10 AWG may also be listed as boat cable BC-5W2 (105°C dry 75°C wet) per UL 1426 and meet SAE J378b, USCG, ABYC and NMMA requirements. Diameters, weights and approvals may vary among manufacturers.

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
1015-26/1-XX	26	Solid	0.016	0.078	3.6
1015-26/7-XX	26	7x34	0.019	0.081	3.9
1015-24/1-XX	24	Solid	0.020	0.083	4.4
1015-24/7-XX	24	7x32	0.024	0.086	4.9
1015-22/1-XX	22	Solid	0.025	0.088	5.4
1015-22/7-XX	22	7x30	0.030	0.091	5.9
1015-20/1-XX	20	Solid	0.032	0.099	6.9
1015-20/10-XX	20	10x30	0.037	0.099	7.3
1015-18/1-XX	18	Solid	0.040	0.106	9.3
1015-18/16-XX	18	16x30	0.048	0.106	9.7
1015-16/1-XX	16	Solid	0.051	0.117	12.8
1015-16/19-XX	16	19x29	0.052	0.113	13.4
1015-16/26-XX	16	26x30	0.060	0.117	13.6
1015-14/19-XX	14	19x0.0147	0.070	0.129	18.9
1015-14/41-XX	14	41x30	0.075	0.132	19.2
1015-12/19-XX	12	19x0.0185	0.095	0.155	27.7
1015-12/65-XX	12	65x30	0.096	0.151	28.5
1015-10/19-XX	10	19x0.0234	0.122	0.179	41.2
1015-10/105-XX	10	105x30	0.130	0.175	42.2

All part numbers require color code designation.
See Color Code chart at the end of this section.
If conductor coating differs from standard part number add identifier after stranding (i.e., UL 1015 16/26 prebond light blue with white stripe = 1015-16/26P-L69, BC for bare copper).
UL 1015 may also carry UL style recognition for styles 1011, 1032, 1230, 1335 and may be listed UL Type MTW per UL 1063 requirements.
Sizes 16-10 AWG may also be listed as boat cable BC-5W2 (105°C dry 75°C wet) per UL 1426 and meet SAE J378b, USCG, ABYC and NMMA requirements.
Diameters, weights and approvals may vary among manufacturers.

UL-Style

1028 (0.047 in. Wall, 600 V)



PVC
Stranded conductor
UL AWM
CSA TEW or AWM

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. STANDARDS: UL recognized AWM Style 1028 per UL 758. Passes VW-1 vertical flame test. CSA TEW or AWM
4. TEMPERATURE: 105°C
5. VOLTAGE: 600 V

APPLICATIONS

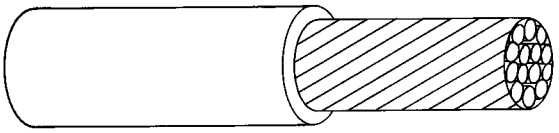
Motors, transformers, fluorescent ballasts and fixtures, switchboards, panels, rectifiers and electronic circuits.

Anixter No.	Conductor AWG	Stranding No. x AWG	Wire O.D.	Approx. Wt. lb./1,000 ft.
1028-8/133-XX	8	133x29	0.262	72.7
1028BC-8/19-XX	8	19x0.0295	0.242	68
1028BC-8/133-XX	8	133x29	0.262	71

All part numbers require color code designation.
See Color Code Chart at the end of this section.
If conductor coating differs from standard part number add identifier after stranding (i.e., UL 1028 16/26 prebond light blue with white stripes=1028-16/26P-L69).
Diameters and weights may vary among manufacturers.
Use UL 1283 for 6-2 AWG or UL 1284 for 1-4/0.
UL 1028 may also carry UL style recognition for Styles 1032, 1230, 1231, 1344 and be UL Listed Type MTW per UL 1063 requirements and CSA TEW.
It may also be listed as boat cable BC-5W2 (105°C dry 75°C wet) per UL 1426 and meet SAE J378b, USCG, ABYC and NMMA requirements.

UL-Style

1061 (0.009 in. Wall, 300 V)



PVC
Stranded and solid conductor
CSA Type T II SR-PVC

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Polyvinyl Chloride (PVC) (semi-rigid)
3. STANDARDS: UL recognized AWM Style 1061 per UL 758. Passes VW-1 vertical flame test. CSA AWM I A/B
4. TEMPERATURE: -10°C to 80°C
5. VOLTAGE: 300 V

APPLICATIONS

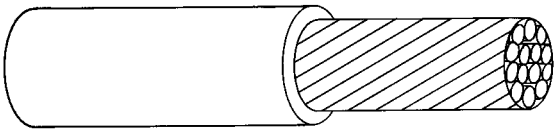
Internal wiring of electrical and electronic equipment.

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
1061-28/7-XX	28	7x36	0.015	0.035	1.1
1061-26/1-XX	26	Solid	0.016	0.036	1.3
1061-26/7-XX	26	7x34	0.019	0.039	1.5
1061-24/1-XX	24	Solid	0.020	0.041	1.9
1061-24/7-XX	24	7x32	0.024	0.044	2.2
1061-22/1-XX	22	Solid	0.025	0.046	2.7
1061-22/7-XX	22	7x30	0.030	0.051	3.3
1061-20/1-XX	20	Solid	0.032	0.052	3.9
1061-20/10-XX	20	10x30	0.037	0.058	4.1
1061-18/1-XX	18	Solid	0.040	0.061	5.9
1061-18/16-XX	18	16x30	0.048	0.068	6.1
1061-16/1-XX	16	Solid	0.051	0.071	9.1
1061-16/26-XX	16	26x30	0.060	0.078	9.4

All part numbers require color code designation.
See Color Code chart at the end of this section.
If conductor coating differs from standard part number add identifier after stranding (i.e., UL 1061 16/26 prebond light blue with white stripe = 1061-16/26P-L69).
Diameters and weights may vary among manufacturers.

UL-Style

1180 (0.013 in. Wall, 300 V)



TFE
Stranded and solid conductor
UL AWM

SPECIFICATIONS

1. CONDUCTOR: Silver-coated copper
2. INSULATION: TFE
3. STANDARDS: UL recognized AWM Styles 1180/1164 per UL 758 requirements
4. TEMPERATURE: UL 1180 200°C, UL 1164 150°C
5. VOLTAGE: 300 V

APPLICATIONS

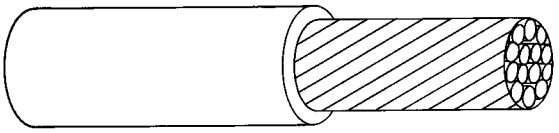
Internal wiring of electrical and electronic equipment.

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
1180-24/7-XX	24	7x32	0.024	0.053	3.1
1180-24/19-XX	24	19x36	0.024	0.053	3.1
1180-22/1-XX	22	Solid	0.025	0.054	3.7
1180-22/7-XX	22	7x30	0.030	0.060	4.3
1180-22/19-XX	22	19x34	0.030	0.060	4.3
1180-20/1-XX	20	Solid	0.032	0.061	5.1
1180-20/7-XX	20	7x28	0.038	0.068	6.0
1180-20/19-XX	20	19x32	0.038	0.068	6.1
1180-18/7-XX	18	7x26	0.048	0.079	8.7
1180-18/19-XX	18	19x30	0.047	0.079	8.8
1180-16/19-XX	16	19x29	0.053	0.086	11.0
1180-14/19-XX	14	19x27	0.067	0.102	16.4
1180-12/19-XX	12	19x25	0.084	0.120	24.8
1180-10/37-XX	10	37x26	0.110	0.142	34.4

All part numbers require color code designation.
See Color Code chart at the end of this section.
If conductor coating differs from standard part number add identifier after stranding (i.e., UL 1180-14/19 blue with white stripe = 1180-14/19-69).
Diameters and weights may vary among manufacturers.
UL Style 1180 and MIL-W-16878/5 (superseded by NEMA HP3) are interchangeable for 18 AWG and smaller.
Multi-piece spools are standard.

UL-Style

1213 (0.008 in. Wall, Voltage - Not Specified)



TFE
Stranded and solid conductor
UL AWM

SPECIFICATIONS

1. CONDUCTOR: Silver-coated copper
2. INSULATION: TFE
3. STANDARDS: UL recognized AWM Styles 1213/1212 per UL 758 requirements
4. TEMPERATURE: 105°C UL 1213, 80°C UL 1212
5. VOLTAGE: Not rated

APPLICATIONS

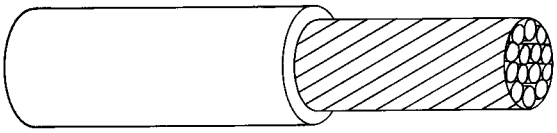
Internal wiring of computers, test equipment, and other office and control equipment.

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
1213-26/1-XX	26	Solid	0.016	0.035	1.5
1213-26/7-XX	26	7x34	0.019	0.038	1.7
1213-26/19-XX	26	19x38	0.019	0.038	1.7
1213-24/7-XX	24	7x32	0.024	0.043	2.4
1213-24/19-XX	24	19x36	0.024	0.043	2.4
1213-22/1-XX	22	Solid	0.025	0.046	3.1
1213-22/7-XX	22	7x30	0.030	0.050	3.5
1213-22/19-XX	22	19x34	0.030	0.050	3.5
1213-20/1-XX	20	Solid	0.032	0.054	4.9
1213-20/7-XX	20	7x28	0.038	0.058	5.1
1213-20/19-XX	20	19x32	0.038	0.058	5.2
1213-18/19-XX	18	19x30	0.048	0.069	7.7
1213-16/19-XX	16	19x29	0.053	0.080	10.1

All part numbers require color code designation.
See Color Code chart at the end of this section.
If conductor coating differs from standard part number add identifier after stranding (i.e., UL 1213-18/19 blue with white stripe = 1213-18/19-69).
Diameters and weights may vary among manufacturers.
UL Styles 1213 and MIL-W-16878/4 (superseded by NEMA HP3) are interchangeable for 18 AWG and smaller.
Multi-piece spools are standard.

UL-Style

1283 (0.060 in. Wall, 600 V)



PVC
Stranded conductor
UL AWM
CSA TEW or AWM

SPECIFICATIONS

1. CONDUCTOR: Tinned or bare copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. STANDARDS: UL recognized AWM Style 1283 per UL 758 requirements. Passes VW-1 vertical flame test. CSA AWM or TEW
4. TEMPERATURE: -40°C to 105°C
5. VOLTAGE: 600 V

APPLICATIONS

Control cabinets, internal wiring of appliances and for machine tools.

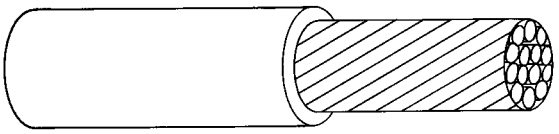
Anixter No.	Conductor AWG	Conductor Material	Stranding No. x AWG	Wire O.D.	Approx. Wt. lb./1,000 ft.
1283BC-6/19-XX	6	BC	19x0.0372	0.306	110
1283BC-6/133-XX	6	BC	133x27	0.324	110
1283-6/133-XX	6	TC	133x27	0.324	113
1283BC-6/266-XX	6	BC	266x30	0.335	118
1283-6/266-XX	6	TC	266x30	0.322	114
1283BC-4/19-XX	4	BC	19x0.0469	0.355	166
1283BC-4/133-XX	4	BC	133x25	0.387	153
1283-4/133-XX	4	TC	133x25	0.387	166
1283BC-4/420-XX	4	BC	420x30	0.367	164
1283-4/420-XX	4	TC	420x30	0.372	167
1283BC-2/19-XX	2	BC	19x0.0591	0.415	250
1283BC-2/133-XX	2	BC	133x23	0.452	256
1283-2/133-XX	2	TC	133x23	0.452	259
1283BC-2/665-XX	2	BC	665x30	0.432	251
1283-2/665-XX	2	TC	665x30	0.437	252

All part numbers require color code designation.
See Color Code Chart at the end of the section.
Diameters, weights, and approvals may vary among manufacturers.
UL 1283 may also carry UL Style recognition for Styles 1232, 1346; 10269 (1 kV), UL Listing for Types MTW and THHW, CSA recognition for TEW, and UL Listing for boat cable (BC-5W2), and may meet requirements for SAE J1127 Type SGT.

UL-Style

1284 (0.080 in. Wall, 600 V)

PVC
Stranded conductor
UL AWM
CSA TEW or AWM



SPECIFICATIONS

1. CONDUCTOR: Tinned or bare copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. STANDARDS: UL recognized AWM Style 1284 per UL 758. Passes VW-1 vertical flame test. CSA AWM or TEW
4. TEMPERATURE: -40°C to 105°C
5. VOLTAGE: 600 V

APPLICATIONS

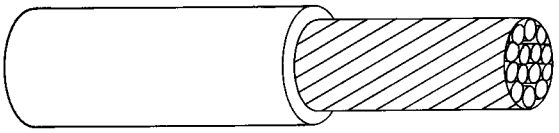
Control cabinets, internal wiring of appliances and for machine tools.

Anixter No.	Conductor AWG	Conductor Material	Stranding No. x AWG	Wire O.D.	Approx. Wt. lb./1,000 ft.
1284BC-1/133-XX	1	BC	133x22	0.535	324
1284-1/259-XX	1	TC	259x25	0.521	324
1284BC-1/833-XX	1	BC	833x30	0.521	332
1284-1/833-XX	1	TC	833x30	0.521	332
1284BC-1/0/259-XX	1/0	BC	259x24	0.561	401
1284-1/0/259-XX	1/0	TC	259x24	0.561	401
1284BC-1/0/1064-XX	1/0	BC	1,064x30	0.561	402
1284-1/0/1064-XX	1/0	TC	1,064x30	0.561	402
1284BC-2/0/259-XX	2/0	BC	259x23	0.625	485
1284-2/0/259-XX	2/0	TC	259x23	0.660	495
1284BC-2/0/1330-XX	2/0	BC	1,330x30	0.616	492
1284-2/0/1330-XX	2/0	TC	1,330x30	0.616	495
1284BC-3/0/259-XX	3/0	BC	259x22	0.666	610
1284-3/0/259-XX	3/0	TC	259x22	0.666	601
1284BC-3/0/1672-XX	3/0	BC	1,672x30	0.666	612
1284-3/0/1672-XX	3/0	TC	1,672x30	0.666	612
1284BC-4/0/259-XX	4/0	BC	259x21	0.735	800
1284-4/0/551-XX	4/0	TC	551x24	0.740	773
1284BC-4/0/2109-XX	4/0	BC	2,109x30	0.726	758
1284-4/0/2109-XX	4/0	TC	2,109x30	0.726	758

All part numbers require color code designation.
See Color Code Chart at the end of this section.
Diameters, weights, and approvals may vary among manufacturers.
UL 1284 may also carry UL Style recognition for Styles 1232, 1346; 10269 (1 kV), UL Listing for Types MTW and THHW, CSA recognition for TEW, and UL Listing for boat cable (BC-5W2), and may meet requirements for SAE J1127 Type SGT 1/0 and larger CT (cable tray) rated.

UL-Style

1371 (0.0055 in. - 0.013 in. Wall, Voltage - Not Specified)



TFE or FEP
Stranded and solid conductor
UL AWM

SPECIFICATIONS

1. CONDUCTOR: Silver-coated copper
2. INSULATION: TFE or FEP, 0.0055 in. wall (28-20 AWG), 0.008 in. wall (18-16 AWG), 0.013 in. wall (14-12 AWG)
3. STANDARDS: UL recognized AWM Style 1371 per UL 758 requirements
4. TEMPERATURE: 105°C
5. VOLTAGE: Not rated

APPLICATIONS

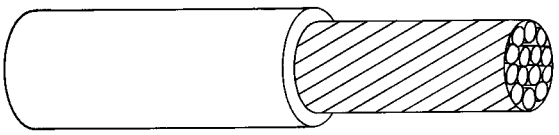
Internal wiring of computers, test equipment, and other office and control equipment.

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
1371-26/1-XX	26	Solid	0.016	0.029	1.2
1371-26/7-XX	26	7x34	0.019	0.033	1.4
1371-26/19-XX	26	19x38	0.019	0.034	1.5
1371-24/7-XX	24	7x32	0.024	0.038	2.1
1371-24/19-XX	24	19x36	0.024	0.038	2.1
1371-22/7-XX	22	7x30	0.030	0.044	3.1
1371-22/19-XX	22	19x34	0.030	0.044	3.1
1371-20/7-XX	20	7x28	0.038	0.052	4.6
1371-20/19-XX	20	19x32	0.038	0.052	4.6
1371-18/19-XX	18	19x30	0.047	0.067	7.5
1371-16/19-XX	16	19x29	0.053	0.076	9.8
1371-14/19-XX	14	19x27	0.067	0.102	16.4
1371-12/19-XX	12	19x25	0.084	0.120	24.8

All part numbers require color code designation.
See Color Code chart at the end of this section.
If conductor coating differs from standard part number add identifier after stranding (i.e., UL 1371-18/19 blue with white stripe = 1371-14/19-69).
Diameters and weights may vary among manufacturers.
Multi-piece spools are standard.

UL-Style

1422/1423 (0.005-0.004 in. Wall, Voltage - Not Specified)



Kynar

Solid conductor

SPECIFICATIONS

1. CONDUCTOR: Silver-coated, solid conductor copper
2. INSULATION: Kynar, 0.005 in. wall (UL 1422) or 0.004 in. wall (UL 1423)
3. STANDARDS: UL recognized AWM Style 1422/1423 per UL 758 requirements
4. TEMPERATURE: 105°C
5. VOLTAGE: Not rated

APPLICATIONS

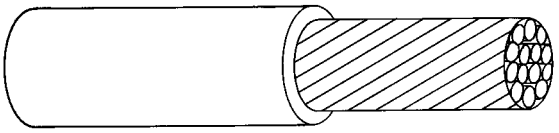
Insulated solid conductor copper wire for "back panel" wiring of computers and other electronic applications where solderless wraps are used.

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
1422-30/1-XX	30	Solid	0.010	0.020	0.5
1422-28/1-XX	28	Solid	0.013	0.023	0.8
1422-26/1-XX	26	Solid	0.016	0.027	1.0
1422-22/1-XX	22	Solid	0.020	0.031	1.6

All part numbers require color code designation.
See Color Code chart at the end of this section.
Diameters and weights may vary among manufacturers.

UL-Style

1429 (0.010 in. Wall, 150 V)



Irradiated PVC
Stranded and solid conductor
UL AWM
CSA AWM

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Polyvinyl Chloride (PVC) (irradiated)
3. STANDARDS: Complies with MIL-Spec 16878/1, UL recognized AWM Style 1429 per UL 758 requirements. CSA AWM
4. TEMPERATURE: -55°C to 105°C (UL/CSA 80°C)
5. VOLTAGE: 150 V

APPLICATIONS

Internal wiring of computers, test equipment, and other office and control equipment.

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
1429-28/7-XX	28	7x36	0.015	0.036	1.1
1429-26/1-XX	26	Solid	0.016	0.038	1.3
1429-26/7-XX	26	7x34	0.019	0.040	1.5
1429-26/19-XX	26	19x34	0.020	0.040	1.6
1429-24/1-XX	24	Solid	0.020	0.042	1.9
1429-24/7-XX	24	7x32	0.024	0.045	2.2
1429-24/19-XX	24	19x36	0.024	0.045	2.2
1429-22/1-XX	22	Solid	0.025	0.047	2.7
1429-22/7-XX	22	7x30	0.030	0.051	3.3
1429-22/19-XX	22	19x34	0.032	0.052	3.3
1429-20/1-XX	20	Solid	0.032	0.054	3.9
1429-20/7-XX	20	7x28	0.038	0.059	4.1
1429-20/19-XX	20	19x32	0.040	0.060	4.1
1429-18/7-XX	18	7x26	0.046	0.070	6.1
1429-18/19-XX	18	19x30	0.048	0.070	6.1
1429-16/19-XX	16	19x29	0.054	0.078	9.2

All part numbers require color code designation.
See Color Code chart at the end of this section.
Diameters and weights may vary among manufacturers.

Judd Wire excels in defining, designing and delivering economical, high performance products for demanding applications. Judd Wire specializes in the use of electron beam crosslinked thermosets for wire insulation and cable jackets in order to provide superior mechanical durability, abrasion resistance, and prevent shrink back from soldering operations. Judd Wire products are manufactured in the USA to more than 100 styles recognized by Underwriters Laboratory, Canadian Standards and/or Military Specification Mil-W-16878F.

Anixter Product Focus:

Irradiation Crosslinked Hookup Wire

- *XLPE*
- *XLPVC*
- *0 Halogen XLPE*
- *High Voltage XLPE up to 50 KV*

Multi Conductor and Composite Cables Built to Spec

Applications Include:

Process Control
Robotics
Machine Vision
Nuclear Generating Stations
Medical Equipment
Inspection Equipment including Down Hole
Remote Sensor/Instrumentation
Moisture Sensing
Thermocouple

Performance Criteria:

Temp Rating up to 150˚C
UV Resistance
Autoclavable
Gamma Resistant
High Tensile Strength
High Flex Life
High Chemical Resistance
Shielded Constructions
Zero Halogen
RoHS Compliant

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fax *(413) 863-2305*

870 Los Vallecitos Boulevard
San Marcos, CA 92069 USA

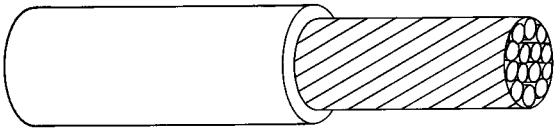
tel *(760) 744-7720*
(800) 344-5251

fax *(760) 744-0689*

www.juddwire.com

UL-Style

1430 (0.015 in. Wall, 300 V)



Irradiated PVC
Stranded and solid conductor
UL AWM
CSA REW

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Polyvinyl Chloride (PVC) (irradiated)
3. STANDARDS: Complies with MIL-Spec 16878/2, UL recognized AWM Style 1430 per UL 758 requirements. CSA REW
4. TEMPERATURE: -55°C to 105°C (UL 105°C)
5. VOLTAGE: 300 V

APPLICATIONS

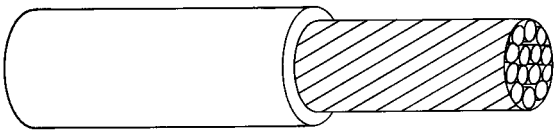
Internal wiring of computers, test equipment, and other office and control equipment.

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
1430-28/7-XX	28	7x36	0.015	0.049	1.6
1430-26/1-XX	26	Solid	0.016	0.050	1.8
1430-26/7-XX	26	7x34	0.019	0.053	2.0
1430-24/7-XX	24	7x32	0.024	0.056	2.8
1430-24/19-XX	24	19x36	0.024	0.057	2.8
1430-22/7-XX	22	7x30	0.030	0.062	3.6
1430-22/19-XX	22	19x34	0.032	0.063	3.7
1430-20/7-XX	20	7x28	0.038	0.070	4.8
1430-20/19-XX	20	19x32	0.040	0.071	4.9
1430-18/7-XX	18	7x26	0.046	0.082	7.0
1430-18/19-XX	18	19x30	0.048	0.082	7.0
1430-16/1-XX	16	Solid	0.051	0.085	10
1430-16/19-XX	16	19x29	0.054	0.092	10.5

All part numbers require color code designation.
See Color Code chart at the end of this section.
If conductor coating differs from standard part number add identifier after stranding.
Identifiers can be found with the color code chart, (i.e., UL 1430-16/26 prebond light blue with white stripe = 1430-16/26P-L69).
Diameters and weights may vary among manufacturers.

UL-Style

1431 (0.030 in. Wall, 600 V)



Irradiated PVC
Stranded and solid conductor
UL AWM
CSA REW

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Polyvinyl Chloride (PVC) (irradiated)
3. STANDARDS: Complies with MIL-Spec 16878/3, UL Recognized AWM Style 1431 per UL 758 requirements
4. TEMPERATURE: -55°C to 105°C (UL 105°C)
5. VOLTAGE: 600 V

APPLICATIONS

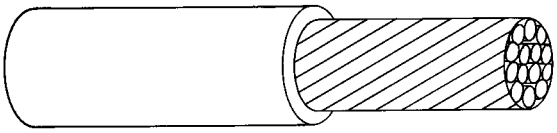
Internal wiring of computers, test equipment, and other office and control equipment.

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
1431-24/7-XX	24	7x32	0.024	0.088	4.9
1431-24/19-XX	24	19x36	0.024	0.088	4.9
1431-22/7-XX	22	7x30	0.030	0.092	5.9
1431-22/19-XX	22	19x34	0.032	0.095	6.2
1431-20/7-XX	20	7x28	0.038	0.102	7.3
1431-18/7-XX	18	7x26	0.046	0.112	9.8
1431-18/19-XX	18	19x30	0.048	0.112	9.8
1431-16/19-XX	16	19x29	0.054	0.122	13.6
1431-16/26-XX	16	26x30	0.054	0.122	13.6
1431-14/19-XX	14	19x27	0.073	0.136	19.2
1431-14/41-XX	14	41x30	0.070	0.142	19.5
1431-12/19-XX	12	19x25	0.090	0.154	28.5
1431-12/65-XX	12	65x30	0.090	0.156	28.7
1431-10/37-XX	10	37x26	0.118	0.178	40.0
1431-10/105-XX	10	105x30	0.120	0.188	42.3
1431-6/133-XX	6	133x27	0.206	0.342	120.0
1431-8/133-XX	8	133x29	0.166	0.261	72.7

All part numbers require color code designation.
See Color Code chart at the end of this section.
If conductor coating differs from standard part number add identifier after stranding (i.e., UL 1431-14/19 prebond light blue with white stripe = 1431-14/19P-L69).
Diameters and weights may vary among manufacturers.

UL-Style

1452 (0.015 in. Wall, 600 V)



PVC insulation/nylon jacket
Stranded and solid conductor
UL AWM
CSA AWM

SPECIFICATIONS

1. CONDUCTOR: Bare or tinned copper
2. INSULATION: Polyvinyl Chloride (PVC) with nylon jacket
3. STANDARDS: UL recognized AWM Styles 1452/1316 per UL 758 requirements. CSA AWM
4. TEMPERATURE: 90°C (UL 1452), 105°C (UL 1316)
5. VOLTAGE: 1,000 V (UL 1452), 600 V (UL 1316)

APPLICATIONS

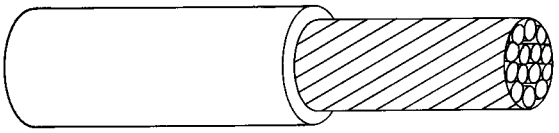
Internal wiring of computers, test equipment, and other office and control equipment.

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
1452-24/1-XX	24	Solid	0.020	0.062	2.7
1452-24/7-XX	24	7x32	0.024	0.066	3.1
1452-22/1-XX	22	Solid	0.025	0.067	3.7
1452-22/7-XX	22	7x30	0.030	0.072	4.1
1452-20/1-XX	20	Solid	0.032	0.074	5.1
1452-20/10-XX	20	10x30	0.038	0.080	5.2
1452-18/1-XX	18	Solid	0.040	0.082	7.2
1452-18/16-XX	18	16x30	0.048	0.090	7.5
1452-16/1-XX	16	Solid	0.051	0.093	10.5
1452-16/19-XX	16	19x29	0.058	0.100	10.8
1452-14/1-XX	14	Solid	0.064	0.106	15.6
1452-14/19-XX	14	19x27	0.072	0.114	16.1
1452-14/41-XX	14	41x30	0.070	0.110	16
1452-12/1-XX	12	Solid	0.081	0.123	23.6
1452-12/19-XX	12	19x25	0.092	0.134	24.3

All part numbers require color code designation.
See Color Code chart at the end of this section.
Diameters and weights may vary among manufacturers.

UL-Style

3173/3195 (0.030-0.045 in. Wall, 600 V)



Chemical XLPE
Stranded and solid conductor
UL AWM
CSA AWM

SPECIFICATIONS

1. CONDUCTOR: Tinned or bare copper
2. INSULATION: Cross-Linked Polyethylene (XLPE), chemical
3. STANDARDS: UL recognized AWM Style 3173/3195 per UL 758 requirements. CSA Type CL1251 and AWM I A/B
4. TEMPERATURE RATING: 125°C
5. VOLTAGE RATING: 600 V

APPLICATIONS

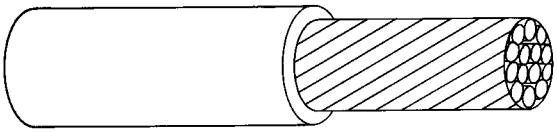
For internal wiring of appliances where exposed to temperatures not exceeding 125°C (UL), in power-operated dispensing units and where exposed to gasoline vapors. For use as leads of transformers, motors, ballasts, solenoids, etc., where the baking temperature of the windings, coils, etc., to which they are attached, will not exceed 160°C (CSA).

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
3173-22/7-XX	22	7x30	0.030	0.090	6.0
3173-20/10-XX	20	10x30	0.038	0.102	7.4
3173-18/16-XX	18	16x30	0.048	0.108	10.3
3173-16/26-XX	16	26x30	0.054	0.119	14.1
3173-14/41-XX	14	41x30	0.070	0.136	19.8
3173-12/65-XX	12	65x30	0.090	0.155	29.4
3173-10/105-XX	10	105x30	0.120	0.187	43.3
3195-8/133-XX	8	133x29	0.166	0.261	75.8

All part numbers require color code designation.
See Color Code chart at the end of this section.
Sizes 10 AWG and larger have a paper serve between conductor and insulator.
Solid colors with extruded parallel stripes available.
Bare copper conductor also available. (Insert BC after 3173 for bare copper).
Sizes 14 AWG and larger also UL Listed type SIS switchboard wire per UL 44 requirement.

UL-Style

3266 (0.016 in. Wall, 300 V)



Irradiated XLPE
Stranded and solid conductor
UL AWM
CSA AWM

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Cross-Linked Polyethylene (XLPE), irradiated
3. STANDARDS: Complies with MIL-Spec 16878/15. UL recognized AWM Style 3266 per UL 758 requirements
4. TEMPERATURE: -55°C to 125°C
5. VOLTAGE: 300 V

APPLICATIONS

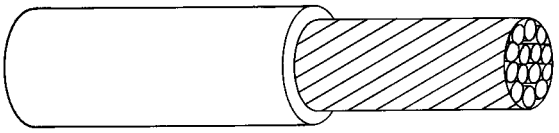
Internal wiring of computers, test equipment, and other office and control equipment.

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
3266-26/1-XX	26	Solid	0.016	0.048	1.8
3266-26/7-XX	26	7x34	0.019	0.051	2.0
3266-24/1-XX	24	Solid	0.020	0.052	2.4
3266-24/7-XX	24	7x32	0.024	0.056	2.8
3266-22/7-XX	22	7x30	0.030	0.062	3.7
3266-20/1-XX	20	Solid	0.032	0.064	4.6
3266-20/7-XX	20	7x28	0.038	0.070	4.8
3266-18/7-XX	18	7x26	0.048	0.080	7.0
3266-18/19-XX	18	19x30	0.047	0.079	7.0
3266-16/19-XX	16	19x29	0.053	0.089	10.3
3266-16/26-XX	16	26x30	0.060	0.092	10.5
3266-14/19-XX	14	19x27	0.067	0.106	15.6
3266-12/19-XX	12	19x25	0.084	0.127	24.7
3266-10/37-XX	10	37x26	0.110	0.154	37.2

All part numbers require color code designation.
See Color Code chart at the end of this section.
Diameters and weights may vary among manufacturers.

UL-Style

3271 (0.030 in. Wall, 600 V)



Irradiated XLPE
Stranded and solid conductor
UL AWM
CSA AWM

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Cross-Linked Polyethylene (XLPE), irradiated
3. STANDARDS: Complies with MIL-Spec 16878/16. UL recognized AWM Style 3271 per UL 758 requirements
4. TEMPERATURE: -55°C to 125°C
5. VOLTAGE: 600 V

APPLICATIONS

Internal wiring of computers, test equipment, and other office and control equipment.

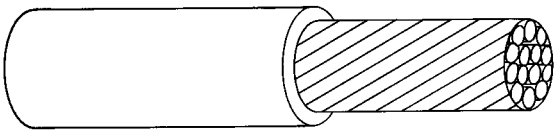
Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
3271-26/1-XX	26	Solid	0.016	0.079	3.6
3271-26/7-XX	26	7x34	0.019	0.082	3.9
3271-24/1-XX	24	Solid	0.020	0.083	4.4
3271-24/7-XX	24	7x32	0.024	0.087	4.9
3271-22/1-XX	22	Solid	0.025	0.088	5.4
3271-22/7-XX	22	7x30	0.030	0.093	5.9
3271-20/1-XX	20	Solid	0.032	0.095	6.9
3271-20/7-XX	20	7x28	0.038	0.101	7.3
3271-18/7-XX	18	7x26	0.048	0.111	9.5
3271-18/19-XX	18	16x30	0.047	0.108	8.7
3271-16/26-XX	16	26x30	0.060	0.119	12.5
3271-14/41-XX	14	41x30	0.067	0.136	18.5
3271-12/65-XX	12	65x30	0.084	0.154	26.8
3271-10/105-XX	10	105x30	0.110	0.187	40.4

All part numbers require color code designation.
See Color Code chart at the end of this section.
Diameters and weights may vary among manufacturers.

UL-Style

3321 (0.030 in. Wall, 600 V)

XLPE insulation
Stranded or solid conductor
UL AWM
CSA AWM



SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Cross-Linked Polyethylene (XLPE), chemical
3. STANDARDS: UL recognized AWM Style 3321 per UL 758 requirements. CSA Type CL 1503 and AWM I A/B
4. TEMPERATURE RATING: 150°C
5. VOLTAGE RATING: 600 V

APPLICATIONS

Internal wiring of electrical and electronic appliances.

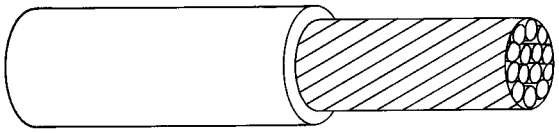
Anixter No.	Conductor AWG	Stranding No. x AWG	Wire O.D.	Approx. Wt. lb./1,000 ft.
3321-22/7-XX	22	7x30	0.094	5.5
3321-20/10-XX	20	10x30	0.102	7
3321-18/16-XX	18	16x30	0.113	9.9
3321-16/26-XX	16	26x30	0.123	13.7
3321-14/41-XX	14	41x30	0.138	19.4
3321-12/65-XX	12	65x30	0.160	28.3
3321-10/105-XX	10	105x30	0.185	43

All part numbers require color code designation.
See Color Code chart at the end of this section.
Solid colors with extruded parallel stripes available.

UL-Style

1007 (0.015 in. Wall, 300 V)

BELDEN
PVC
Stranded conductor
UL AWM
CSA TR-64/TRSR-64
JQA-F (JAPAN)



SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. STANDARDS: UL recognized AWM Styles 1007/1569 per UL 758. Passes VW-1 vertical flame test, CSA FT1
4. TEMPERATURE: 80ºC (1007), 105ºC (1569), dual rated
5. VOLTAGE: 300 V

APPLICATIONS

Internal wiring of electrical and electronic equipment.

UL AWM STYLE 1007 80ºC, JQA-F

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
B9930-XX	30	7x38	0.013	0.044	1.1

UL AWM STYLE 1007 80ºC AND 1569 105ºC, CSA TR-64 AND TRSR-64, JQA-F (JAPAN)

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
B9928-XX	28	7x36	0.015	0.047	1.6
B9926-XX	26	7x34	0.016	0.051	2
B9923-XX	24	7x32	0.024	0.056	2.8
B9921-XX	22	7x30	0.030	0.062	3.7
B9919-XX	20	7x28	0.038	0.069	4.1
B9920-XX	20	10x30	0.037	0.067	4.8
B9918-XX	18	16x30	0.048	0.079	7
B9916-XX	16	26x30	0.060	0.092	10.5

UL AWM STYLE 1007 80ºC AND 1569 105ºC, CSA TR-64 AND TRSR-64

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
B9989-XX	14	41x30	0.075	0.110	17

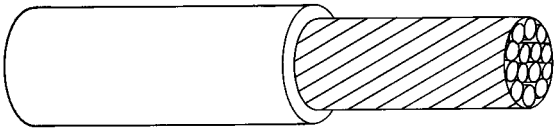
UL AWM STYLE 1007 80ºC, CSA TR-64, JQA-F

Uni-Strand Conductor. Recommended maximum baking cycles: 24 hours at 300°F (149°C). All part numbers require color code designation. See Color Code chart at the end of this section.

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
B32822-XX	22	7x30	0.032	0.062	20
B32820-XX	20	7x28	0.038	0.068	25

UL-Style

1015 (0.030 in. Wall, 600 V)



BELDEN
PVC
Stranded and solid conductor
UL AWM
CSA TEW
JQA-F (Japan)

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. STANDARDS: UL recognized AWM Style 1015 per UL 758. Passes VW-1 vertical flame test, CSA FT1
4. TEMPERATURE: -40°C to 105°C
5. VOLTAGE: 600 V

APPLICATIONS

Internal wiring of electrical and electronic equipment.

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
B9924-XX	24	7x32	0.024	0.088	4.9
B8920-XX	22	7x30	0.030	0.093	5.9
B8919-XX	20	10x30	0.037	0.100	7.3
B8918-XX	18	16x30	0.048	0.110	9.7
B8915-XX	18	Solid	0.040	0.105	9.3
B8917-XX	16	26x30	0.060	0.123	13.6
B8916-XX	14	14x41	0.075	0.138	19.2
B9912-XX	12	65x30	0.096	0.158	28.5
B9910-XX	10	65x28	0.126	0.180	43
B8910-XX	10	105x30	0.130	0.186	42.2

UNI-STRAND CONDUCTOR

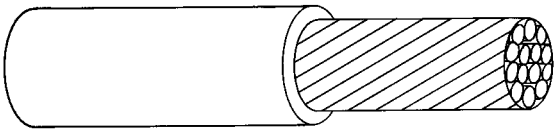
Recommended maximum baking cycles: 48 hours at 275°F (135°C) 24 hours at 300°F (149°C). All part numbers require color code designation. See Color Code chart at the end of this section.

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
B32722-XX	22	7x30	0.033	0.093	7
B32720-XX	20	7x28	0.039	0.099	7.2
B32718-XX	18	7x26	0.044	0.108	10

UL-Style

1028 (0.045 in. Wall, 600 V)

BELDEN
PVC
Stranded and solid conductor
UL AWM
CSA TEW
JQA-F (Japan)



SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. STANDARDS: UL recognized AWM Style 1028 per UL 758 requirements. Passes VW-1 vertical flame test
4. TEMPERATURE: -40°C to 105°C
5. VOLTAGE: 600 V

APPLICATIONS

Internal wiring of electronic and electrical equipment.

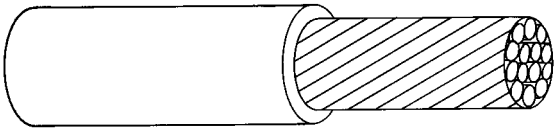
Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
B9908-XX	8	84x27	0.160	0.250	76
B8908-XX	8	133x29	0.170	0.262	74

All part numbers require color code designation.
See Color Code chart at the end of this section.

UL-Style

1061 (0.010 in. Wall, 300 V)

BELDEN
PVC
Stranded or solid conductor
UL AWM
CSA AWM



SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Polyvinyl Chloride (PVC), semi-rigid
3. STANDARDS: UL recognized AWM Style 1061 per UL 758 requirements. Passes VW-1 vertical flame test, CSA FT1
4. TEMPERATURE: -10°C to 80°C
5. VOLTAGE: 300 V

APPLICATIONS

Internal wiring of electrical and electronic equipment.

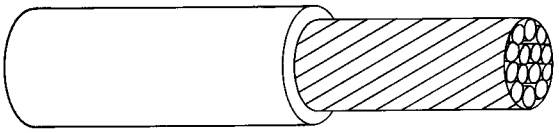
Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
B9978-XX	30	Solid	0.011	0.030	1.0
B9987-XX	30	7x38	0.013	0.032	1.0
B9977-XX	28	Solid	0.015	0.033	1.1
B9986-XX	28	7x36	0.015	0.035	1.1
B9976-XX	26	Solid	0.016	0.036	1.3
B9985-XX	26	7x34	0.019	0.039	1.5
B9975-XX	24	Solid	0.020	0.040	1.9
B9984-XX	24	7x32	0.024	0.044	2.2
B9979-XX	22	Solid	0.025	0.047	2.7
B9983-XX	22	7x30	0.030	0.050	3.3
B9982-XX	20	7x28	0.038	0.057	3.8
B9917-XX	20	10x30	0.0374	0.056	4.1
B9911-XX	18	16x30	0.048	0.067	6.1
B9981-XX	18	19x30	0.046	0.066	7.0
B9980-XX	16	19x28	0.058	0.078	9.2
B9909-XX	16	26x30	0.060	0.080	9.4

All part numbers require color code designation.
See Color Code chart at the end of this section.

UL-Style

1180 (0.013 in. Wall, 300 V)

BELDEN
PTFE
Stranded conductor
UL AWM
NEMA HP3 Type EE (formerly MIL-Spec M16878/5)



SPECIFICATIONS

1. CONDUCTOR: Silver-coated copper
2. INSULATION: PTFE, extruded
3. STANDARDS: UL recognized AWM Style 1180 per UL 758 requirements. Passes VW-1 vertical flame test
4. TEMPERATURE: -60°C to 200°C
5. VOLTAGE: 300 V (UL), 1,000 V (MIL-Spec)

APPLICATIONS

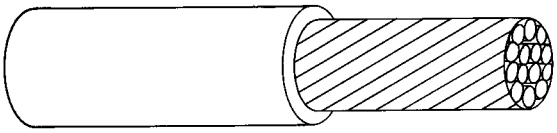
For internal wiring of meters, panels and electronic equipment.

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
B83023-XX	24	19x36	0.023	0.053	4
B83025-XX	22	7x30	0.030	0.060	5
B83026-XX	22	19x34	0.029	0.059	5
B83027-XX	20	19x32	0.038	0.068	7
B83028-XX	20	7x28	0.038	0.068	7
B83029-XX	18	19x30	0.047	0.077	9
B83030-XX	16	19x29	0.058	0.088	12

Complies with MIL-W-16878 except stranding.
All part numbers require color code designation.
See Color Code chart at the end of the section.
Spools may contain more than one piece.
M16878/5 is inactive for new design products, item is currently manufactured in accordance with NEMA HP3.

UL-Style

1213 (0.008 in. Wall, Voltage - Not Specified)



BELDEN
PTFE
Stranded conductor
UL AWM
NEMA HP3 Type E (formerly MIL-Spec M16878/4)

SPECIFICATIONS

1. CONDUCTOR: Silver-plated copper
2. INSULATION: PTFE, extruded
3. STANDARDS: UL recognized AWM Style 1213 per UL 758 requirements. Passes VW-1 vertical flame test
4. TEMPERATURE: -60°C to 105°C (UL), -60°C to 200°C (MIL-Spec)
5. VOLTAGE: Not specified (UL), 600 V (MIL-Spec)

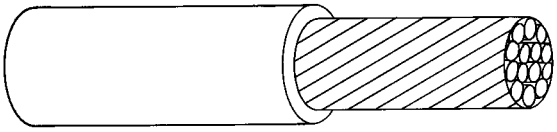
APPLICATIONS

For internal wiring of meters, panels, and electronic equipment.

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
B83000-XX	30	7x38	0.012	0.032	1
B83001-XX	28	7x36	0.015	0.035	2
B83002-XX	26	7x34	0.019	0.039	3
B83003-XX	24	19x36	0.023	0.043	3
B83004-XX	24	7x32	0.023	0.043	3
B83005-XX	22	7x30	0.029	0.049	4
B83006-XX	22	19x34	0.028	0.048	4
B83007-XX	20	19x32	0.036	0.056	6
B83008-XX	20	7x28	0.038	0.058	6

Complies with MIL-Spec 16878/4 except stranding.
All part numbers require color code designation.
See Color Code chart at the end of the section.
Spools may contain more than one piece.
M16878/4 is inactive for new designs, item is currently manufactured in accordance with NEMA HP3.

1283 (0.060 in. Wall, 600 V)



BELDEN
PVC
Stranded and solid conductor
CSA TEW
UL AWM/MTW
JQA-F (Japan)

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. STANDARDS: UL recognized AWM Style 1283 per UL 758 requirements. Passes VW-1 Vertical Flame Test. Also UL Listed Type MTW per UL 1063 requirements
4. TEMPERATURE: -40°C to 105°C
5. VOLTAGE: 600 V

APPLICATIONS

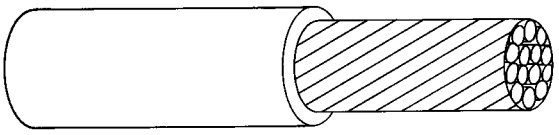
Internal wiring of electrical and electronic equipment.

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
B9906-XX	6	133x27	0.210	0.331	122
B9904-XX	4	133x25	0.272	0.392	201

UL-Style

1371 (0.011-0.012 in. Wall, Voltage - Not Specified)

BELDEN
PTFE
Stranded conductor
UL AWM
NEMA HP3 Type E (formerly MIL-Spec M16878/4)



SPECIFICATIONS

1. CONDUCTOR: Silver-plated copper
2. INSULATION: PTFE, extruded
3. STANDARDS: UL recognized AWM Style 1371 per UL 758 requirements. Passes VW-1 vertical flame test
4. TEMPERATURE: -60°C to 105°C (UL), -60°C to 200°C (MIL-Spec)
5. VOLTAGE: Not Specified (UL), 600 V (MIL-Spec)

APPLICATIONS

Internal wiring of meters, panels and electronic equipment.

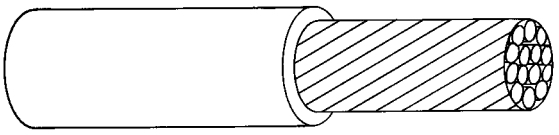
Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
B83009-XX	18	19x30	0.046	0.068	8
B83010-XX	16	19x29	0.052	0.076	11

Complies with MIL-Spec 16878/4 except stranding.
All part numbers require color code designation.
See Color Code chart at the end of the section.
Spools may contain more than one piece.
M16878/4 spec is inactive for new designs.
Item is currently manufactured in accordance with NEMA HP3.

UL-Style

1371 (0.006 in. Wall, Voltage - Not Specified)

BELDEN
PTFE
Stranded conductor
UL AWM
NEMA HP3 Type ET (formerly MIL-Spec M16878/6)



SPECIFICATIONS

1. CONDUCTOR: Silver-plated copper
2. INSULATION: PTFE, extruded
3. STANDARDS: UL recognized AWM Style 1371 per UL 758 requirements. Passes VW-1 vertical flame test
4. TEMPERATURE: -60°C to 105°C (UL), -60°C to 200°C (MIL-Spec)
5. VOLTAGE: Not specified (UL), 250 V (MIL-Spec)

APPLICATIONS

Internal wiring of meters, panels and electronic equipment.

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
B83041-XX	32	7x40	0.010	0.022	1
B83043-XX	30	7x38	0.012	0.024	1
B83045-XX	28	7x36	0.015	0.027	1
B83046-XX	26	7x34	0.019	0.031	2
B83047-XX	24	7x32	0.024	0.036	2
B83048-XX	24	19x36	0.024	0.036	2
B83049-XX	22	7x30	0.030	0.042	4
B83050-XX	22	19x24	0.030	0.042	4

Complies with MIL-Spec 16878/6.
All part numbers require color code designation.
See Color Code chart at the end of the section.
Spools may contain more than one piece.
M16878/6 spec is inactive for new designs.
Item is currently manufactured in accordance with NEMA HP3.

UL-Style

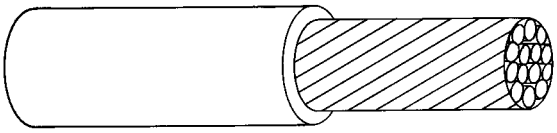
Common UL Single Conductor Style Types

UL Style	Voltage Rating (AC Max.)	Temperature Rating (Max.)	Size Range (AWG/kcmil)	Insulation Type
1007	300 V	80°C	32-16	PVC
1015	600 V	105°C	32-2000	PVC
1028	600 V	105°C	22-6	PVC
1061	300 V	80°C	30-16	Semirigid PVC
1180	300 V	200°C	32-10	TFE
1213	N/A	105°C	36-16	TFE
1283	600 V	105°C	8-2	PVC
1284	600 V	105°C	8-1000	PVC
1371	N/A	105°C	36-6	TFE/FEP
1422	N/A	105°C	32-20	PVDF
1423	N/A	105°C	36-20	PVDF
1429	150 V	80°C	32-16	XLPVC
1430	300 V	105°C	30-16	XLPVC
1431	600 V	105°C	30-1000	XLPVC
1452	1,000 V	90°C	26-12	PVC/Nylon
3173	600 V	125°C	26-9	XLPE
3266	300 V	125°C	32-10	XLPE
3271	600 V	125°C	30-1000	XLPE
3321	600 V	150°C	30-4/0	XLPE

AWM is manufactured to UL 758 requirements.
All information per UL style sheets.

MIL-Spec

MIL 16878/1 (0.010 in. Wall, 600 V)



Type B
PVC
Stranded conductor

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. TEMPERATURE: -55°C to 105°C
4. VOLTAGE: 600 V

APPLICATIONS

For internal wiring of meters, panels and electronic equipment.

Anixter No.	Conductor AWG	Stranding No. x AWG	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
M16878/1-BAB-XX	32	7x40	0.010	0.028	0.60
M16878/1-BBB-XX	30	7x38	0.010	0.032	0.80
M16878/1-BCB-XX	28	7x36	0.010	0.034	1.00
M16878/1-BDB-XX	26	7x34	0.010	0.038	1.42
M16878/1-BEB-XX	24	7x32	0.010	0.043	2.05
M16878/1-BEE-XX	24	19x36	0.010	0.043	2.22
M16878/1-BFB-XX	22	7x30	0.010	0.050	2.97
M16878/1-BFE-XX	22	19x34	0.010	0.050	3.22
M16878/1-BGB-XX	20	7x28	0.010	0.058	4.41
M16878/1-BGE-XX	20	19x32	0.010	0.058	4.75
M16878/1-BHB-XX	18	7x26	0.010	0.068	6.63
M16878/1-BHE-XX	18	19x30	0.010	0.068	7.00
M16878/1-BJE-XX	16	19x29	0.010	0.077	8.80
M16878/1-BKE-XX	14	19x27	0.010	0.091	13.78

Nylon jacket available.
All part numbers require a color code designation.
See Color Code chart at the end of this section.
Please request print on insulation if required.
Diameters and weights may vary among manufacturers.

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The #1 Source for High-Performance Wire and Cable Products

UL-Approved Wire Styles

PTFE Insulation:
Available types: 1164, 1180, 1198, 1199, 1212, 1213, 1371, 1538, 1570, 1659, 1815.

FEP Insulation:
Available types: 1330, 1331, 1332, 1333, 1371, 1538, 3239.

ETFE Insulation:
Available types: 1508, 1513, 1516, 1517, 1523, 1558.

PFA Insulation:
Available types: 1726, 1727.

PVC Insulation:
Available type: 1164.

Mica Insulation:
Available types: 5107, 5128.

PTFE/Glass Insulation:
Available types: 1659, 1815, 5127, 5180.

CSA-Approved Wire

Temperature and Voltage Ranges:
105–450˚ C; 150–500V.

Insulation Materials:
ETFE, FEP, Mica/Glass, Mineral-Filled PTFE, PTFE, PTFE/Glass, PVC.

Ultra-High Temperature Wire

Thermax 750:
399˚ C, 600V.

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250˚ C, 300–600V.

Types MGS, MGT:
450˚ C, 300–600V.

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100 Base-T Ethernet, Quad and Twisted Pair*
Low-Noise cables
Sensor cables
Thermocouple cables*
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High-Performance Designs:*
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MIL-C-17 RG cables
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- PTFE Expansion
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- Braiding
- Taping
- Thermoplastic Extrusion
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- Laser Marking
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- Bonderizing
- Dispersion Coating
- Coil Cords

Services

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- Bar Coding

Insulation Materials

- ETFE
- Expanded PTFE
- FEP
- Glass Braid
- Halar
- Hytrel
- Kevlar
- LTE Low-Loss Expanded PTFE
- Mica Tape
- Nomex
- Nylon
- PFA
- Polyethylene
- Polyimide Tape
- Polyolefins
- Polyurethane
- PTFE
- PTFE/ Polyimide Tape
- PVC
- *Seamless Wrap* PTFE Tape
- Surlyn
- TPR

Test Capability

- Attenuation
- VSWR
- Impedance
- Differential Impedance
- Velocity of Propagation
- Time Delay
- Capacitance
- Inductance
- Corona Extinction
- Low Noise Testing
- Shielding Effectiveness
- Crosstalk
- Flame Resistance
- Flammability (60° Vertical Flame test)
- Accelerated Aging
- Cold Bend
- Wet / Dry Arc Propagation
- Thermal Shock
- Humidity Resistance
- TA Differential Scanning Calorimeter
- Laser Mark Optical Contrast
- Mark Durability
- Forced Hydrolysis
- Wire Separation
- Flexure Endurance
- Melt Flow Rate
- Adhesion to Potting Compound
- Circumferential Elongation
- Torsion Testing
- Kocour Testing
- Solderability
- Wire to Wire Abrasion
- Insulation Resistance
- Dynamic Cut-Through
- Wicking
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- Eye Pattern

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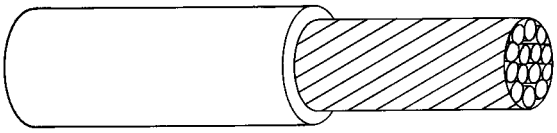
MIL-Spec

MIL 16878/2 (0.015 in. Wall, 1,000 V)



Type C
PVC
Stranded conductor

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. TEMPERATURE: -55°C to 105°C
4. VOLTAGE: 1,000 V

APPLICATIONS

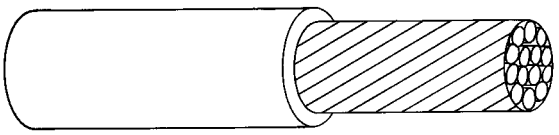
For internal wiring of meters, panels and electronic equipment.

Anixter No.	Conductor Size AWG	Stranding No. x AWG	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
M16878/2-BEB-XX	24	7x32	0.015	0.058	2.59
M16878/2-BFB-XX	22	7x30	0.015	0.064	3.64
M16878/2-BGB-XX	20	7x28	0.015	0.072	5.20
M16878/2-BHB-XX	18	7x26	0.015	0.082	7.83
M16878/2-BJE-XX	16	19x29	0.015	0.091	10.36
M16878/2-BKE-XX	14	19x27	0.015	0.105	15.07
M16878/2-BLE-XX	12	19x25	0.015	0.124	23.56

Nylon jacket available.
All part numbers require color code designation.
See Color Code chart at the end of this section.
Diameters and weights may vary among manufacturers.

MIL-Spec

MIL 16878/3 (0.030-0.040 in. Wall, 3,000 V)



Type D
PVC
Stranded conductor

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. TEMPERATURE: -55°C to 105°C
4. VOLTAGE: 3,000 V

APPLICATIONS

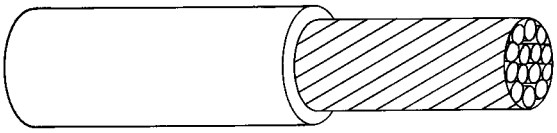
For internal wiring of meters, panels and electronic equipment.

Anixter No.	Conductor Size AWG	Stranding No. x AWG	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
M16878/3-BFB-XX	22	7x30	0.030	0.088	5.52
M16878/3-BGB-XX	20	7x28	0.030	0.096	7.31
M16878/3-BHB-XX	18	7x26	0.030	0.196	9.76
M16878/3-BJE-XX	16	19x29	0.030	0.115	12.46
M16878/3-BKE-XX	14	19x27	0.030	0.129	17.73
M16878/3-BLE-XX	12	19x25	0.030	0.158	27.98
M16878/3-BMG-XX	10	37x26	0.030	0.185	39.21
M16878/3-BNL-XX	8	133x29	0.040	0.247	70.58
M16878/3-BPL-XX	6	133x27	0.040	0.290	107.16

Nylon jacket available.
All part numbers require color code designation.
See Color Code chart at the end of this section.
Please request print on insulation if required.
Diameters and weights may vary among manufacturers.

MIL-Spec

MIL 16878/4* (0.010 in. Wall, 600 V)



Type E
TFE
Stranded or solid conductor

SPECIFICATIONS

1. CONDUCTOR: Silver-plated copper
2. INSULATION: TFE, extruded
3. TEMPERATURE: -60°C to 200°C
4. VOLTAGE: 600 V

APPLICATIONS

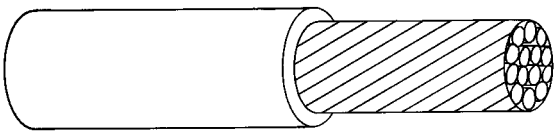
For internal wiring of meters, panels and electronic equipment.

Anixter No.	Conductor Size AWG	Stranding No. x AWG	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
M16878/4-BAB-XX	32	7x40	0.010	0.029	0.70
M16878/4-BBB-XX	30	7x38	0.010	0.032	0.93
M16878/4-BCB-XX	28	7x36	0.010	0.036	1.22
M16878/4-BDA-XX	26	Solid	0.010	0.036	1.55
M16878/4-BDB-XX	26	7x34	0.010	0.040	1.66
M16878/4-BDE-XX	26	19x38	0.010	0.041	1.70
M16878/4-BEA-XX	24	Solid	0.010	0.040	2.12
M16878/4-BEB-XX	24	7x32	0.010	0.044	2.35
M16878/4-BEE-XX	24	19x36	0.010	0.045	2.39
M16878/4-BFA-XX	22	Solid	0.010	0.045	2.92
M16878/4-BFB-XX	22	7x30	0.010	0.050	3.33
M16878/4-BFE-XX	22	19x34	0.010	0.050	3.42
M16878/4-BGA-XX	20	Solid	0.010	0.052	4.18
M16878/4-BGB-XX	20	7x28	0.010	0.058	4.97
M16878/4-BGE-XX	20	19x32	0.010	0.059	5.08
M16878/4-BHE-XX	18	19x30	0.010	0.069	7.74
M16878/4-BJE-XX	16	19x29	0.010	0.077	10.10
M16878/4-BKE-XX	14	19x27	0.010	0.094	15.50
M16878/4-BLE-XX	12	19x25	0.010	0.113	23.70
M16878/4-BMG-XX	10	37x26	0.010	0.134	33.50

* Spec is inactive for new design.
All part numbers require color code designation.
See Color Code chart at the end of this section.
Some sizes are interchangeable with UL 1213 (18 AWG and smaller), and stranded construction approved to UL 1213 (specify when ordering).
Please request print on insulation if required.
Diameters and weights may vary among manufacturers.
M16878/4 items are currently manufactured in accordance with NEMA HP3.
Multi-piece spools are standard.

MIL-Spec

MIL 16878/5* (0.015-0.020 in. Wall, 1,000 V)



Type EE (heavy wall)
TFE
Stranded conductor

SPECIFICATIONS

1. CONDUCTOR: Silver-plated copper
2. INSULATION: TFE, extruded
3. TEMPERATURE: -60°C to 200°C
4. VOLTAGE: 1,000 V

APPLICATIONS

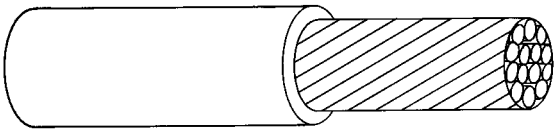
For internal wiring of meters, panels and electronic equipment.

Anixter No.	Conductor Size AWG	Stranding No. x AWG	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
M16878/5-BEE-XX	24	19x36	0.015	0.055	3.18
M16878/5-BFE-XX	22	19x34	0.015	0.062	4.32
M16878/5-BGE-XX	20	19x32	0.015	0.070	6.10
M16878/5-BHE-XX	18	19x30	0.015	0.080	8.67
M16878/5-BJE-XX	16	19x29	0.015	0.089	11.10
M16878/5-BKE-XX	14	19x27	0.020	0.106	16.40
M16878/5-BLE-XX	12	19x25	0.020	0.124	24.80
M16878/5-BMG-XX	10	37x26	0.020	0.145	36.80
M16878/5-BNL-XX	8	133x29	0.020	0.210	68.90

*Spec is inactive for new design.
Nylon jacket available (specify when ordering).
All part numbers require color code designation.
See Color Code chart at the end of this section.
Please request print on insulation if required.
Diameters and weights may vary among manufacturers.
M16878/5 items are currently manufactured in accordance with NEMA HP3.
Some sizes are interchangeable with UL Style 1180 (18 AWG and smaller).
Multi-piece spools are standard.

MIL-Spec

MIL 16878/11* (0.010-0.012 in. Wall, 600 V)



Type K
FEP insulation
Stranded conductor

SPECIFICATIONS

1. CONDUCTOR: Silver-plated copper wire
2. INSULATION: FEP, extruded
3. TEMPERATURE: -65°C to 200°C
4. VOLTAGE: 600 V

APPLICATIONS

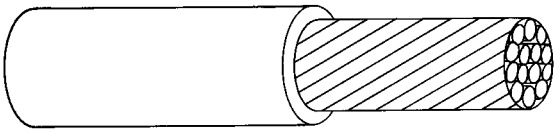
For internal wiring of meters, panels and electronic equipment.

Anixter No.	Conductor Size AWG	Stranding No. x AWG	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
M16878/11-BBB-XX	30	7x38	0.010	0.031	0.93
M16878/11-BCB-XX	28	7x36	0.010	0.034	1.22
M16878/11-BDB-XX	26	7x34	0.010	0.038	1.66
M16878/11-BEE-XX	24	19x36	0.010	0.043	2.39
M16878/11-BFE-XX	22	19x34	0.010	0.050	3.42
M16878/11-BGE-XX	20	19x32	0.010	0.057	5.08
M16878/11-BHE-XX	18	19x30	0.010	0.067	7.74
M16878/11-BJE-XX	16	19x29	0.010	0.076	10.1
M16878/11-BKE-XX	14	19x27	0.010	0.092	15.5
M16878/11-BLE-XX	12	19x25	0.010	0.115	23.7

* Spec is inactive for new design.
All part numbers require color code designation.
See Color Code chart at the end of this section.
Please request print on insulation if required.
Diameters and weights may vary among manufacturers.
M16878/11 items are currently manufactured in accordance with NEMA HP4.
Available with tinned copper conductor rated 150°C.

MIL-Spec

MIL 16878/17 (0.010 in. Wall, 600 V)



Type B/N
PVC/nylon
Stranded conductor

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Polyvinyl Chloride (PVC), with nylon covering
3. TEMPERATURE: -55°C to 105°C
4. VOLTAGE: 600 V

APPLICATIONS

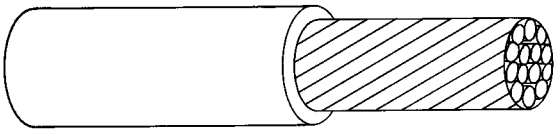
For internal wiring of meters, panels and electronic equipment.

Anixter No.	Conductor Size AWG	Stranding No. x AWG	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
M16878/17-BDB-XX	26	7x34	0.010/0.003**	0.044	1.57
M16878/17-BEB-XX	24	7x32	0.010/0.003**	0.049	2.22
M16878/17-BEE-XX	24	19x36	0.010/0.003**	0.049	2.40
M16878/17-BFB-XX	22	7x30	0.010/0.003**	0.056	3.25
M16878/17-BFE-XX	22	19x34	0.010/0.003**	0.056	3.44
M16878/17-BGB-XX	20	7x28	0.010/0.003**	0.064	4.77
M16878/17-BGE-XX	20	19x32	0.010/0.003**	0.064	5.00
M16878/17-BHB-XX	18	7x26	0.010/0.003**	0.074	7.16
M16878/17-BHE-XX	18	19x30	0.010/0.003**	0.074	7.34
M16878/17-BJE-XX	16	19x29	0.010/0.003**	0.085	10.4
M16878/17-BKE-XX	14	19x27	0.010/0.004**	0.099	16.5

** Nylon jacket approximate thickness.
All part numbers require color code designation.
See Color Code chart at the end of this section.
Please request print on insulation if required.
Diameters and weights may vary among manufacturers.

MIL-Spec

MIL 16878/19 (0.030 in. Wall, 3,000 V)



Type D/N
PVC/nylon
Stranded conductor

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Polyvinyl Chloride (PVC), with nylon jacket
3. TEMPERATURE: -55°C to 105°C
4. VOLTAGE: 3,000 V

APPLICATIONS

For internal wiring of meters, panels and electronic equipment.

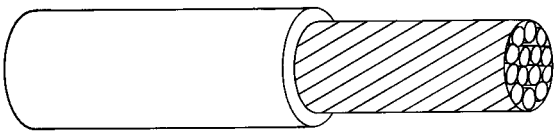
Anixter No.	Conductor Size AWG	Stranding No. x AWG	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
M16878/19-BEB-XX	24	7x32	0.030	0.088	4.55
M16878/19-BEE-XX	24	19x36	0.030	0.088	4.67
M16878/19-BFB-XX	22	7x30	0.030	0.094	5.74
M16878/19-BFE-XX	22	19x34	0.030	0.094	5.93
M16878/19-BGB-XX	20	7x28	0.030	0.101	7.44
M16878/19-BGE-XX	20	19x32	0.030	0.101	7.72
M16878/19-BHB-XX	18	7x26	0.030	0.112	10.20
M16878/19-BJE-XX	16	19x29	0.030	0.121	12.81
M16878/19-BKE-XX	14	19x27	0.030	0.136	18.30
M16878/19-BLE-XX	12	19x25	0.030	0.170	28.89
M16878/19-BMG-XX	10	37x26	0.030	0.193	40.69
M16878/19-BNL-XX	8	133x29	0.030	0.257	73.12
M16878/19-BPL-XX	6	133x27	0.030	0.257	110.62

All part numbers require color code designation.
See Color Code chart at the end of this section.
Please request print on insulation if required.
Diameters and weights may vary among manufacturers.

MIL-Spec

MIL 22759/11* (Thin Wall, 600 V)

Type RC**
TFE
Stranded conductor



SPECIFICATIONS

1. CONDUCTOR: Silver-plated copper
2. INSULATION: TFE, extruded
3. TEMPERATURE: 200°C
4. VOLTAGE: 600 V

APPLICATIONS

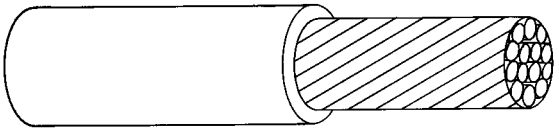
For internal wiring of meters, panels, and electronic equipment, electrical and electronic use in protected applications where high temperature will be encountered.

Anixter No.	Conductor Size AWG	Stranding No. x AWG	Diameter of Stranded Conductor Min. (in.)	Diameter of Stranded Conductor Max. (in.)	Finished Wire Resis. @ 20°C (68°F) Ohms/1,000 ft.)	Finished Wire Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
M22759/11-28-XX	28	7x36	0.014	0.015	23.8	0.033 +/- 0.002	1.36
M22759/11-26-XX	26	19x38	0.018	0.020	38.4	0.038 +/- 0.002	1.9
M22759/11-24-XX	24	19x36	0.023	0.025	24.3	0.043 +/- 0.002	2.58
M22759/11-22-XX	22	19x34	0.029	0.032	15.1	0.049 +/- 0.002	3.72
M22759/11-20-XX	20	19x32	0.037	0.040	9.19	0.058 +/- 0.002	5.43
M22759/11-18-XX	18	19x30	0.046	0.050	5.79	0.068 +/- 0.002	8.14
M22759/11-16-XX	16	19x29	0.052	0.057	4.52	0.075 +/- 0.002	10
M22759/11-14-XX	14	19x27	0.065	0.072	2.88	0.090 +/- 0.002	15.1
M22759/11-12-XX	12	19x25	0.082	0.090	1.81	0.111 +/- 0.003	22.9
M22759/11-10-XX	10	37x26	0.106	0.112	1.19	0.139 +/- 0.004	37.8
M22759/11-8-XX	8	133x29	0.158	0.169	0.658	0.202 +/- 0.004	65.5

*M22759 items are currently manufactured in accordance with SAE AS22759, product may be designated "AS" (Aerospace Standards).
** Cable designation using this type of wire component per NEMA WC27500.
All part numbers require color code designation.
See Color Code chart at the end of this section.
Diameters and weights may vary among manufacturers.
Multi-piece spools are standard.

MIL-Spec

MIL 22759/16* (Heavy Wall, 600 V)



Type TE**
ETFE
Stranded conductor

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: ETFE, extruded, medium weight
3. TEMPERATURE: 150°C
4. VOLTAGE: 600 V

APPLICATIONS

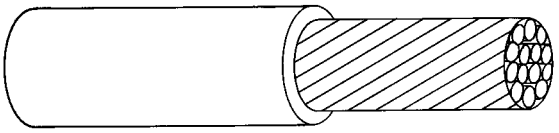
Used as airframe interconnect wire in open harness applications. ETFE offers abrasion resistance, light weight and durability.

Anixter No.	Conductor Size AWG	Stranding No. x AWG	Diameter of Stranded Conductor Min. (in.)	Diameter of Stranded Conductor Max. (in.)	Finished Wire Resis. @ 20°C (68°F) Ohms/1,000 ft.)	Finished Wire Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
M22759/16-24-XX	24	19x36	0.023	0.024	26.2	0.045 +/- 0.002	2.57
M22759/16-22-XX	22	19x34	0.029	0.031	16.2	0.052 +/- 0.002	3.68
M22759/16-20-XX	20	19x32	0.037	0.039	9.88	0.060 +/- 0.002	5.36
M22759/16-18-XX	18	19x30	0.046	0.049	6.23	0.071 +/- 0.002	7.89
M22759/16-16-XX	16	19x29	0.052	0.055	4.81	0.079 +/- 0.002	9.95
M22759/16-14-XX	14	19x27	0.065	0.069	3.06	0.093 +/- 0.002	14.9
M22759/16-12-XX	12	37x28	0.084	0.089	2.02	0.114 +/- 0.003	22.6
M22759/16-10-XX	10	37x26	0.106	0.112	1.26	0.139 +/- 0.003	35.1
M22759/16-8-XX	8	133x29	0.158	0.169	0.701	0.199 +/- 0.003	63.5
M22759/16-6-XX	6	133x27	0.198	0.212	0.445	0.250 +/- 0.003	99.9
M22759/16-4-XX	4	133x25	0.250	0.268	0.280	0.312 +/- 0.004	157

* M22759 items are currently manufactured in accordance with SAE AS22759, product may be designated "AS" (Aerospace Standards).
** Cable designation using this type of wire component per NEMA WC27500.
All part numbers require color code designation.
See Color Code chart at the end of this section.
Diameters and weights may vary among manufacturers.

MIL-Spec

MIL 22759/18* (Thin Wall, 600 V)



Type TG**
ETFE
Stranded conductor

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: ETFE, extruded, light weight
3. TEMPERATURE: 150°C
4. VOLTAGE: 600 V

APPLICATIONS

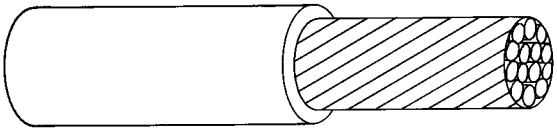
Used as an interconnect wire in protected harness applications, ETFE offers excellent abrasion resistance, light weight and durability.

Anixter No.	Conductor Size AWG	Stranding No. x AWG	Diameter of Stranded Conductor Min. (in.)	Diameter of Stranded Conductor Max. (in.)	Finished Wire Resis. @ 20°C (68°F) Ohms/1,000 ft.)	Finished Wire Nominal O.D. (in.)	Finished Wire Approximate Weight lb./1,000 ft.
M22759/18-26-XX	26	19x38	0.018	0.020	41.3	0.032 +/- 0.002	1.52
M22759/18-24-XX	24	19x36	0.023	0.024	26.2	0.036 +/- 0.002	2.12
M22759/18-22-XX	22	19x34	0.029	0.031	16.2	0.043 +/- 0.002	3.16
M22759/18-20-XX	20	19x32	0.037	0.039	9.88	0.051 +/- 0.002	4.76
M22759/18-18-XX	18	19x30	0.046	0.049	6.23	0.061 +/- 0.002	7.10
M22759/18-16-XX	16	19x29	0.052	0.055	4.81	0.070 +/- 0.002	9.14
M22759/18-14-XX	14	19x27	0.065	0.069	3.06	0.085 +/- 0.002	14.1
M22759/18-12-XX	12	37x28	0.084	0.089	2.02	0.107 +/- 0.003	21.6
M22759/18-10-XX	10	37x26	0.106	0.112	1.26	0.134 +/- 0.003	34.1

* M22759 items are currently manufactured in accordance with SAE AS22759, product may be designated "AS" (Aerospace Standards)
** Cable designation using this type of wire component per NEMA WC27500.
All part numbers require color code designation.
See Color Code chart at the end of this section.
Diameters and weights may vary among manufacturers.

MIL-Spec

MIL 22759/32* (Thin Wall, 600 V)



Type SB**
ETFE copolymer
Stranded conductor

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: ETFE, cross-linked extruded, modified, single wall, irradiated
3. TEMPERATURE: 150°C
4. VOLTAGE: 600 V

APPLICATIONS

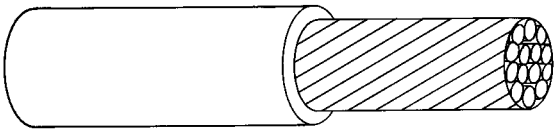
Used as interconnect wire in protected harness applications.

Anixter No.	Conductor Size AWG	Stranding No. x AWG	Diameter of Stranded Conductor Min. (in.)	Diameter of Stranded Conductor Max. (in.)	Finished Wire Resis. @ 20°C (68°F) Ohms/1,000 ft.)	Finished Wire Nominal O.D. (in.)	Finished Wire Approximate Weight lb./1,000 ft.
M22759/32-30-XX	30	7x38	0.011	0.013	108.4	0.024 +/- 0.002	0.66
M22759/32-28-XX	28	7x36	0.014	0.016	68.6	0.027 +/- 0.002	0.91
M22759/32-26-XX	26	19x38	0.018	0.021	41.3	0.032 +/- 0.002	1.4
M22759/32-24-XX	24	19x36	0.023	0.026	26.2	0.037 +/- 0.002	2.0
M22759/32-22-XX	22	19x34	0.029	0.033	16.2	0.043 +/- 0.002	2.8
M22759/32-20-XX	20	19x32	0.037	0.041	9.88	0.050 +/- 0.002	4.3
M22759/32-18-XX	18	19x30	0.046	0.051	6.23	0.060 +/- 0.002	6.5
M22759/32-16-XX	16	19x29	0.052	0.058	4.81	0.068 +/- 0.002	8.3
M22759/32-14-XX	14	19x27	0.065	0.073	3.06	0.085 +/- 0.003	13.0
M22759/32-12-XX	12	37x28	0.084	0.090	2.02	0.103 +/- 0.003	19.7

* M22759 items are currently manufactured in accordance with SAE AS22759, product may be designated "AS" (Aerospace Standards).
** Cable designation using this type of wire component per NEMA WC27500.
Diameters and weights may vary among manufacturers.
All part numbers require color code designation.
See Color Code chart at the end of this section.

MIL-Spec

MIL 22759/33* (Standard Wall, 600 V)



Type SB**
ETFE copolymer
Stranded conductor

SPECIFICATIONS

1. CONDUCTOR: Silver-coated, high-strength alloy
2. INSULATION: ETFE, cross-linked extruded, modified, single wall, irradiated
3. TEMPERATURE: 200°C
4. VOLTAGE: 600 V

APPLICATIONS

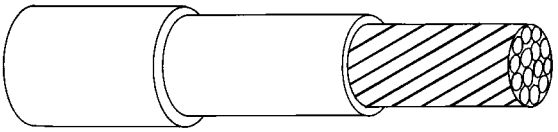
Used as interconnect wire in protected harness applications.

Anixter No.	Conductor Size AWG	Stranding No. x AWG	Diameter of Stranded Conductor Min. (in.)	Diameter of Stranded Conductor Max. (in.)	Finished Wire Resis. @ 20°C (68°F) Ohms/1,000 ft.)	Finished Wire Nominal O.D. (in.)	Finished Wire Approximate Weight lb./1,000 ft.
M22759/33-30-XX	30	7x38	0.011	0.012	117.4	0.024 +/- 0.002	0.66
M22759/33-28-XX	28	7x36	0.014	0.015	74.4	0.027 +/- 0.002	0.91
M22759/33-26-XX	26	19x38	0.018	0.020	44.8	0.032 +/- 0.002	1.4
M22759/33-24-XX	24	19x36	0.023	0.025	28.4	0.037 +/- 0.002	2.0
M22759/33-22-XX	22	19x34	0.029	0.032	17.5	0.043 +/- 0.002	2.9
M22759/33-20-XX	20	19x32	0.037	0.040	10.7	0.050 +/- 0.002	4.4

* M22759 items are currently manufactured in accordance with SAE AS22759, product may be designated "AS" (Aerospace Standards).
** Cable designation using this type of wire component per NEMA WC27500.
All part numbers require color code designation.
See Color Code chart at the end of this section.
Diameters and weights may vary among manufacturers.

MIL-Spec

MIL 22759/34* (Heavy Wall, 600 V)



Type SD**
ETFE copolymer
Stranded conductor

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: ETFE, cross-linked extruded, modified, dual wall, irradiated
3. TEMPERATURE: 150°C
4. VOLTAGE: 600 V

APPLICATIONS

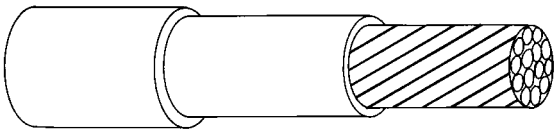
High-temperature airframe and avionics wire used in open harness applications.

Anixter No.	Conductor Size AWG	Stranding No. x AWG	Diameter of Stranded Conductor Min. (in.)	Diameter of Stranded Conductor Max. (in.)	Finished Wire Resis. @ 20°C (68°F) Ohms/1,000 ft.)	Finished Wire Nominal O.D. (in.)	Finished Wire Approximate Weight lb./1,000 ft.
M22759/34-24-XX	24	19x36	0.023	0.026	26.2	0.045 +/- 0.002	2.3
M22759/34-22-XX	22	19x34	0.029	0.033	16.2	0.050 +/- 0.002	3.2
M22759/34-20-XX	20	19x32	0.037	0.041	9.88	0.058 +/- 0.002	4.7
M22759/34-18-XX	18	19x30	0.046	0.051	6.23	0.070 +/- 0.003	7.2
M22759/34-16-XX	16	19x29	0.052	0.058	4.81	0.077 +/- 0.003	9.0
M22759/34-14-XX	14	19x27	0.065	0.073	3.06	0.094 +/- 0.003	13.8
M22759/34-12-XX	12	37x28	0.084	0.090	2.02	0.111 +/- 0.003	20.5
M22759/34-10-XX	10	37x26	0.106	0.114	1.26	0.134 +/- 0.004	32.4
M22759/34-8-XX	8	133x29	0.158	0.173	0.701	0.195 +/- 0.008	60.3
M22759/34-6-XX	6	133x27	0.198	0.217	0.445	0.241 +/- 0.010	94.5

* M22759 items are currently manufactured in accordance with SAE AS22759, product may be designated "AS" (Aerospace Standards).
** Cable designation using this type of wire component per NEMA WC27500.
All part numbers require color code designation.
See Color Code chart at the end of this section.
Diameters and weights may vary among manufacturers.

MIL-Spec

MIL 22759/41* (Heavy Wall, 600 V)



Type SM**
ETFE copolymer
Stranded conductor

SPECIFICATIONS

1. CONDUCTOR: Concentric strand, nickel-coated copper alloy
2. INSULATION: ETFE, cross-linked extruded, modified, dual wall, irradiated
3. TEMPERATURE: 200°C
4. VOLTAGE: 600 V

APPLICATIONS

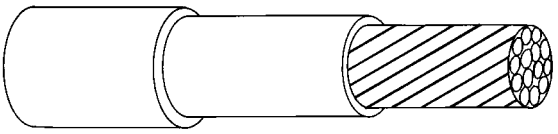
High-temperature airframe and avionics wire used in open harness applications.

Anixter No.	Conductor Size AWG	Stranding No. x AWG	Finished Wire Resis. @ 20°C (68°F) Ohms/1,000 ft.)	Finished Wire Nominal O.D. (in.)	Finished Wire Approximate Weight lb./1,000 ft.
M22759/41-26-XX	26	19x38	42.2	0.040 +/- 0.002	1.7
M22759/41-24-XX	24	19x36	25.9	0.045 +/- 0.002	2.3
M22759/41-22-XX	22	19x34	16.0	0.050 +/- 0.002	3.2
M22759/41-20-XX	20	19x32	9.77	0.058 +/- 0.002	4.7
M22759/41-18-XX	18	19x30	6.10	0.070 +/- 0.003	7.2
M22759/41-16-XX	16	19x29	4.76	0.077 +/- 0.003	9.0
M22759/41-14-XX	14	19x27	3.00	0.094 +/- 0.003	13.8
M22759/41-12-XX	12	37x28	1.98	0.111 +/- 0.003	20.5
M22759/41-10-XX	10	37x26	1.24	0.134 +/- 0.004	32.4
M22759/41-8-XX	8	133x29	0.694	0.195 +/- 0.008	64.2
M22759/41-6-XX	6	133x27	0.436	0.241 +/- 0.010	96.8
M22759/41-4-XX	4	133x25	0.275	0.310 +/- 0.010	163.0
M22759/41-2-XX	2	665x30	0.177	0.405 +/- 0.016	246.0
M22759/41-1-XX	1	817x30	0.144	0.445 +/- 0.016	314.0
M22759/41-01-XX	1/0	1,045x30	0.113	0.485 +/- 0.016	421.0
M22759/41-02-XX	2/0	1,330x30	0.089	0.545 +/- 0.016	518.0

* M22759 items are currently manufactured in accordance with SAE AS22759, product may be designated "AS" (Aerospace Standards).
** Cable designation using this type of wire component per NEMA WC27500.
All part numbers require color code designation.
See Color Code chart at the end of this section.
Diameters and weights may vary among manufacturers.

MIL-Spec

MIL 22759/43* (Heavy Wall, 600 V)



Type SP**
ETFE copolymer
Stranded conductor

SPECIFICATIONS

1. CONDUCTOR: Silver-coated copper
2. INSULATION: ETFE, cross-linked extruded, modified, dual wall, irradiated
3. TEMPERATURE: 150°C
4. VOLTAGE: 600 V

APPLICATIONS

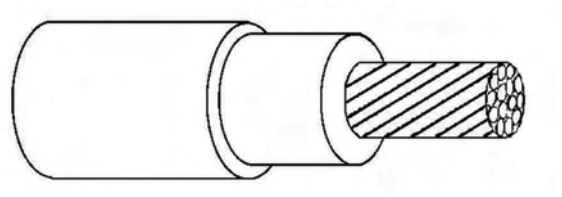
High-temperature airframe and avionics wire used in open harness applications.

Anixter No.	Conductor Size AWG	Stranding No. x AWG	Diameter of Stranded Conductor Min. (in.)	Diameter of Stranded Conductor Max. (in.)	Finished Wire Resis. @ 20°C (68°F) Ohms/1,000 ft.)	Finished Wire Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
M22759/43-26-XX	26	19x38	0.018	0.020	38.4	0.040 +/- 0.002	1.7
M22759/43-24-XX	24	19x36	0.023	0.025	24.3	0.045 +/- 0.002	2.3
M22759/43-20-XX	20	19x32	0.037	0.040	9.19	0.058 +/- 0.002	4.7
M22759/43-18-XX	18	19x30	0.046	0.050	5.79	0.070 +/- 0.003	7.2
M22759/43-16-XX	16	19x29	0.052	0.057	4.52	0.077 +/- 0.003	9.0
M22759/43-14-XX	14	19x27	0.065	0.072	2.88	0.094 +/- 0.003	13.8
M22759/43-12-XX	12	37x28	0.084	0.089	1.90	0.111 +/- 0.003	20.5
M22759/43-10-XX	10	37x26	0.106	0.112	1.19	0.134 +/- 0.004	32.4
M22759/43-8-XX	8	133x29	0.158	0.169	0.658	0.195 +/- 0.008	61.9
M22759/43-6-XX	6	133x27	0.198	0.213	0.418	0.241 +/- 0.010	94.5
M22759/43-4-XX	4	133x25	0.250	0.268	0.264	0.310 +/- 0.010	158.0
M22759/43-2-XX	2	665x30	0.320	0.340	0.170	0.405 +/- 0.016	239.0
M22759/43-1-XX	1	817x30	0.360	0.380	0.139	0.445 +/- 0.016	305.0
M22759/43-01-XX	1/0	1,045x30	0.395	0.425	0.108	0.485 +/- 0.016	385.0
M22759/43-02-XX	2/0	1,330x30	0.440	0.475	0.085	0.545 +/- 0.016	487.0

* M22759 items are currently manufactured in accordance with SAE AS22759, product may be designated "AS" (Aerospace Standards).
** Cable designation using this type of wire component per NEMA WC27500.
All part numbers require color code designation.
See Color Code chart at the end of this section.
Diameters and weights may vary among manufacturers.

MIL-Spec

MIL 81044/12* (Thin Wall, 600 V)



Type ML**
Cross-linked polyalkene insulation
Kynar jacket
Stranded conductor
Lightweight

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Cross-linked polyalkene
3. JACKET: Polyvinylidene fluoride (Kynar)
4. TEMPERATURE: 150°C
5. VOLTAGE: 600 V

APPLICATIONS

Used as hook-up wire for airframe interconnect in open harnesses.

Anixter No.	Conductor Size AWG	Stranding No. x AWG	Diameter of Stranded Conductor Min. (in.)	Diameter of Stranded Conductor Max. (in.)	Finished Wire Resis. @ 20°C (68°F) Ohms/1,000 ft.)	Finished Wire Nominal O.D. (in.)
M81044/12-30-XX	30	7x38	0.011	0.013	108.4	0.027 +/- 0.002
M81044/12-28-XX	28	7x36	0.014	0.016	68.6	0.030 +/- 0.002
M81044/12-26-XX	26	19x38	0.018	0.021	41.3	0.034 +/- 0.002
M81044/12-24-XX	24	19x36	0.023	0.026	26.2	0.040 +/- 0.002
M81044/12-22-XX	22	19x34	0.029	0.033	16.2	0.047 +/- 0.002
M81044/12-20-XX	20	19x32	0.037	0.041	9.88	0.055 +/- 0.002
M81044/12-18-XX	18	19x30	0.046	0.051	6.23	0.065 +/- 0.002
M81044/12-16-XX	16	19x29	0.052	0.058	4.81	0.072 +/- 0.003
M81044/12-14-XX	14	19x27	0.065	0.073	3.06	0.089 +/- 0.004
M81044/12-12-XX	12	37x28	0.084	0.090	2.02	0.108 +/- 0.004

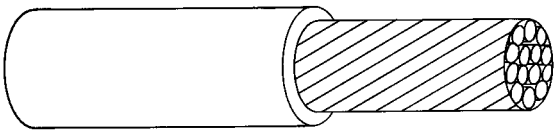
*M81044 items are currently manufactured in accordance with SAE AS81044, product may be designated "AS" (Aerospace Standard).
** Cable designation using this type of wire component per NEMA WC27500.
All part numbers require color code designation.
See Color Code chart at the end of this section.
Diameters and weights may vary among manufacturers.

MIL-Spec

MIL-W-16878/1* (0.010 in. Wall, 600 V)

BELDEN

Type B
PVC insulation
Stranded conductor



SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. TEMPERATURE: 105°C
4. VOLTAGE: 600 V

APPLICATIONS

For internal wiring of meters, panels and electronic equipment.

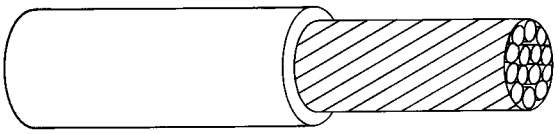
Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
B8597-XX	28	7x36	0.015	0.035	1
B8505-XX	26	7x34	0.016	0.039	1
B8504-XX	24	7x32	0.024	0.044	2
B8503-XX	22	7x30	0.030	0.050	3
B8502-XX	20	7x28	0.038	0.058	4
B8501-XX	18	7x26	0.048	0.068	7
B8500-XX	16	19x29	0.058	0.079	10

*M16878 Spec is inactive for new design products.
All part numbers require color code designation, see Color Code chart at the end of the section.
Spools may contain more than one piece.
Item is currently manufactured in accordance with NEMA HP3.

MIL-Spec

MIL-W-76C (0.017-0.019 in. Wall, 1,000 V)

BELDEN



Type MWC

PVC insulation

Stranded and solid conductor

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. TEMPERATURE: 80°C
4. VOLTAGE: 1,000 V

APPLICATIONS

For internal wiring of meters, panels and electronic equipment.

Anixter No.	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
B8538-XX	24	Solid	0.021	0.055	4
B8525-XX	24	7x32	0.024	0.058	4
B8530-XX	22	Solid	0.025	0.059	4
B8524-XX	22	7x30	0.030	0.064	5
B8529-XX	20	Solid	0.032	0.066	6
B8523-XX	20	10x30	0.036	0.070	6
B8522-XX	18	16x30	0.046	0.080	8
B8521-XX	16	26x30	0.060	0.098	12
B8520-XX	14	41x30	0.075	0.111	17
B8527-XX	12	65x30	0.092	0.128	24

All part numbers require color code designation, see Color Code chart at the end of the section.
Spools may contain more than one piece.

MIL-Spec

Miscellaneous Wire, Military Products

The following is a list of popular military products not detailed in this catalog. These items are also available from us.

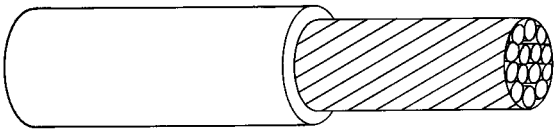
Type	Description
MIL-W-76	General purpose hook-up wire, PVC insulated (inactive)
MIL-W-5846	Thermocouple wire, chromel and alumel
MIL-W-8777	Aircraft wire, silicone insulated (inactive)
MIL-W-25038	Aircraft wire, inorganic fibrous/TFE insulation, high-temperature and fire-resistant, engine zone wire
MIL-W-81822	Solderless wrap (wire wrap), for use around terminal pins, Kynar, TFE, ETFE, TFE/Polyimide, PVC, FEP or aluminum/polyester insulated, also available uninsulated (SAE-AS81822)
MIL-C-915	Shipboard cable, inactive for new design except outboard types (inactive)
MIL-C-5756	Cable and wire, portable power, rubber insulated (replaced by SAE-AS5756)
MIL-C-7078	Cable, aerospace vehicle, irradiated polyalkene/Kynar, PVC, Kapton, TFE insulated (replaced by NEMA-WC27500)
MIL-C-13294	Field wire, WD-1/TT
MIL-C-13486	Cable, special purpose, low tension, single and multiconductor ordinance Neoprene or CSPE
MIL-C-13777	Cable, ground support, Polyethylene insulation, Neoprene jacket (inactive)
MIL-C-24640	Shipboard cable, lightweight
MIL-C-24643	Shipboard cable, low smoke
MIL-C-27072	Cable, special purpose, multiconductor ground support, for electronic circuits, PVC or TFE insulated
MIL-C-47206	Cable, single conductor, twisted pairs and multiconductor, high temperature, PVC and TFE insulated (replaced by NEMA-WC27500)
MIL-C-49055	Cable, power, flat; PVC, ETFE, TFE and FEP insulated
MIL-C-55021	Cable, twisted pairs and triples, internal hook-up, PVC and TFE insulated
MIL-I-22129	Tubing, non shrink
MIL-C-85045	U.S. Navy Fiber Optic Cable
MIL-I-81765	Molded shapes (replaced by SAE-AS81765)
MIL-S-83519	Shield termination sleeves (replaced by SAE-AS83519)
QQ-W-343	Uninsulated solid or stranded copper conductor, coated or bare (replaced by A-A-59551)
QQ-B-575	Copper braid, round or flat, bare or coated (replaced by A-A-59569)
J-C-580	Flexible cord and fixture wire (Federal spec, replaced by UL 62 and UL 66)
J-C-30B	Cable and wire electrical, power fixed installation (building wire) (Federal spec)
JW-1177	Magnet wire (Federal spec, replaced by NEMA MW-1000)
MIL-T-43435	Lacing tape
MIL-T-713	Lacing tape

Please consult your local sales office for specification sheets for particular MIL-Spec wires not listed in this catalog.

Belden Lead Wire

Neoprene

BELDEN



Stranded conductor

UL AWM Styles:

- 3046 (18-10 AWG)
- 3048 (8-2 AWG)
- 3049 (1 AWG)

CSA CL903 (12 AWG and smaller)

SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Neoprene
3. TEMPERATURE: 90°C
4. VOLTAGE: 600 V

APPLICATIONS

Motor lead wire.

UL 3046, 3048, 3049; CSA CL903

All part numbers require color code designation. See Color Code chart at the end of this section.

Anixter No.	Conductor AWG	Stranding No. x AWG	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
5MB-1801-B-XX	18	16x30	0.045	0.142	18
5MB-1602-B-XX	16	26x30	0.045	0.155	23
5MB-1401-B-XX	14	41x30	0.045	0.170	27
5MB-1201-B-XX	12	65x30	0.045	0.190	38
5MB-1001-B-XX	10	65x28	0.045	0.215	53
5MB-0802-B-XX	8	84x27	0.060	0.285	87
5MB-0601-B-XX	6	84x25	0.060	0.343	131
5MB-0401-B-XX	4	105x24	0.060	0.399	187
5MB-0201-B-XX	2	163x24	0.060	0.454	267
5MB-0101-B-XX	1	210x24	0.080	0.557	363

UL 3044; CSA CL902

All part numbers require color code designation. See Color Code chart at the end of this section.

Anixter No.	Conductor AWG	Stranding No. x AWG	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
5MB-2001-B-XX	20	10x30	0.030	0.100	10
5MB-1802-B-XX	18	16x30	0.030	0.110	12
5MB-1601-B-XX	16	26x30	0.030	0.123	16

Belden Lead Wire

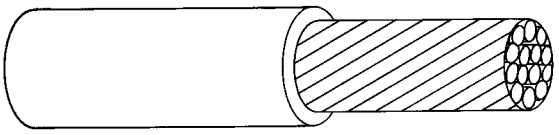
High Voltage - EPDM (7,500 V)

BELDEN

EPDM

Stranded conductor

Not UL or CSA Listed



SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: EPDM
3. TEMPERATURE: 150°C
4. VOLTAGE: 7,500 V

APPLICATIONS

High-voltage lead and jumper wire.

Anixter No.	Conductor AWG	Stranding No. x AWG	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
9B0802B-XX	8	84x27	0.125	0.423	130
9B0601B-XX	6	84x25	0.125	0.470	176
9B0401B-XX	4	105x24	0.125	0.526	240
9B0201B-XX	2	163x24	0.125	0.581	333
9B0100B-XX	1	210x24	0.125	0.638	412
9B1A01B-XX	1/0	262x24	0.125	0.688	486
9B2A00B-XX	2/0	504x26	0.125	0.753	605
9B3A00B-XX	3/0	630x26	0.125	0.813	736
9B4A00B-XX	4/0	805x26	0.125	0.909	944

All part numbers require color code designation.
See Color Code chart at the end of this section.

Belden Lead Wire

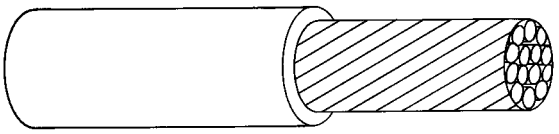
3191 (0.045 in. Wall, 600 V), 3192 (0.060 in. Wall, 600 V), 3193 (0.080 in. Wall, 600 V)

BELDEN

CSPE

Stranded conductor

CSA



SPECIFICATIONS

1. CONDUCTOR: Tinned copper
2. INSULATION: Chlorosulfonated Polyethylene
3. STANDARDS: Class 130 (B) insulation systems
4. TEMPERATURE: 105°C
5. VOLTAGE: 600 V (300 V for CL 1052)

APPLICATIONS

Class 130 (B) motor leads.

UL 3191, 600 V 105°C; CL 1053

Standard lengths 100 ft., 500 ft. 3,000 ft., 4,000 ft. and 5,000 ft. Some lengths may contain multi-piece spools, 50 ft. minimum.

Anixter No.	UL Type	CSA Type	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
B34418-XX	3191	CL-1053	18	16x30	0.052	0.142	16
B34416-XX	3191	CL-1053	16	26x30	0.065	0.155	21
B34414-XX	3191	CL-1053	14	41x30	0.080	0.170	28
B34412-XX	3191	CL-1053	12	65x30	0.100	0.190	35

UL 3191, 600 V 105°C (UL); 300 V 105°C (CSA); CL 1052

Standard lengths 100 ft., 500 ft. and 2,000 ft.

Anixter No.	UL Type	CSA Type	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
B34410-XX	3191	CL-1052	10	65x28	0.119	0.209	49

UL 3192, 600 V 105°C; CL 1052

Standard lengths 100 ft., 250 ft., 500 ft. and 1,000 ft

Anixter No.	UL Type	CSA Type	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
B34408-XX	3192	CL-1052	8	84x27	0.170	0.290	99
B34406-XX	3192	CL-1052	6	84x25	0.223	0.343	136
B34404-XX	3192	CL-1052	4	105x24	0.279	0.399	194
B34403-XX	3192	CL-1052	3	133x24	0.300	0.420	236
B34402-XX	3192	CL-1052	2	163x24	0.334	0.454	258

UL 3193, 600 V 105°C; CL 1052

Standard lengths 50 ft., 100 ft. and 250 ft. Lengths over 100 ft. may contain multi-piece spools, 50 ft. minimum, 8 AWG and large have separator over conductor.

Anixter No.	UL Type	CSA Type	Conductor AWG	Stranding No. x AWG	Conductor Nom. Dia.	Wire O.D.	Approx. Wt. lb./1,000 ft.
B34401	3193	CL-1052	1	210x24	0.397	0.557	388
B34490	3193	CL-1052	1/0	262x24	0.447	0.607	460
B34400	3193	CL-1052	2/0	504x26	0.508	0.668	559
B34430	3193	CL-1052	3/0	630x26	0.557	0.732	700
B34440	3193	CL-1052	4/0	805x26	0.659	0.819	860

Belden Lead Wire

Tinned Copper Shielding and Bonding Braid/Cable

BELDEN

Braided tinned copper

APPLICATIONS

For use as shielding and bonding cable.

Anixter No.	Approx. AWG	Stranding No. x AWG	Rec. Current (Amps)	Approx. Circular Area	Nominal ID Tubular
1SB-0038-B	14.6	96x34	27	3,800	0.125
1SB-0047-B	13.3	120x34	36	4,800	0.172
1SB-0067-B-D	11.9	168x34	38	6,700	0.219
1SB-0076-B	11.3	192x34	46	7,600	0.203
1SB-0133-B	8.9	336x34	62	13,300	0.500
1SB-0229-B	6.6	576x34	80	22,900	0.781
1SB-0480-B	3.4	480x30	145	48,000	0.750

Note: Dimensions shown are approximate, due to pliable nature of braided cables.
May contain more than one piece per spool, minimum length 25 ft.
Typical lengths available: 50 ft. and 250 ft.

Test Lead Wire

BELDEN

SPECIFICATIONS

1. Tinned copper conductor
2. Suggested working voltage: 5 kV
3. Breakdown voltage: 20 kV

RUBBER INSULATION

90°C operating temperature.

Anixter No.	Conductor AWG	Stranding No. x AWG	Insulation Thickness (in.)	Wire O.D.	Approx. Wt. lb./1,000 ft.
B8899-XX	18	65x36	0.045	0.144	15

PVC INSULATION

80°C operating temperature, UL AWM Style 1855.

Anixter No.	Conductor AWG	Stranding No. x AWG	Insulation Thickness (in.)	Wire O.D.	Approx. Wt. lb./1,000 ft.
B9899-XX	18	65x36	0.048	0.144	13

RUBBER INSULATION WITH SEPARATOR

Manufactured for MIL-W-13169B (inactive), 80°C operating temperature.

Anixter No.	Conductor AWG	Stranding No. x AWG	Insulation Thickness (in.)	Wire O.D.	Approx. Wt. lb./1,000 ft.
B8897-XX	18	65x36	0.045	0.144	17

Belden Lead Wire

Bare Copper Bus Bar QQ-W-343G (A-A-59551)

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Solid tinned copper
2. STANDARDS: Made in accordance with QQ-W-343G requirements (replaced with A-A-59551)

APPLICATIONS

For use as bus bar.

SOLID TINNED COPPER

Typical lengths: 100 ft. and 1,000 ft. spools.

Anixter No.	Approx. AWG	Stranding No. x AWG	Approx. Circular Area
B8025	30	Solid	102
B8024	28	Solid	164
B8023	26	Solid	262
B8022	24	Solid	424
B8021	22	Solid	650
B8020	20	Solid	1,056
B8019	18	Solid	1,648
B8013	16	Solid	2,673
B8012	14	Solid	4,251
B8011	12	Solid	6,872

Hook-up and Lead Wire Color Code

Hook-up and Lead Wire Color Code

Code	Color
0	Black
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Violet/Purple
8	Gray
9	White
P	Pink
T	Tan
D	Dark (I.E. D6=Dark Blue)
L	Light (I.E. L6=Light Blue

Multi-Color Code Examples
For white with black stripe - 90
For green with yellow stripe - 54
For white with a black and red stripe - 902
For white and black twisted conductor 9/0
For white, black and red twisted conductors 9/0/2

2

Automotive Cable

Coleman Cable Inc.

Copperfield® has the most complete lead wire selection.

CCI's Copperfield® brand is the industry leader in UL/CSA appliance, SAE automotive, military and industrial lead wire. Our state-of-the-art production facilities are fully integrated to provide our customers with an array of copper fabrication and extrusion solutions. The Copperfield® brand also offers the broadest range of insulation materials in the industry from PVC, XLPE, EPDM, CPE, TPE, Silicone or Braided Silicone. Our product line delivers the most complete lead wire selection in the industry by means of over 250 UL, CSA, SAE, and Military styles and approvals.

CCI — Power with the Best™

PORTABLE CORD
Pump & Welding Cables • XHHW-2
XLP USE-2 • DLO • Type W/G/GGC
Stage & Airport Lighting
PPE • Control Cable

TRAY CABLES
300V & 600V Instrumentation
600V Power & Control Cable

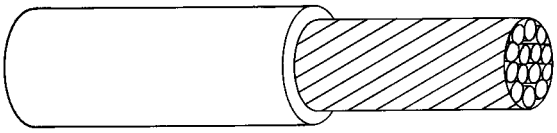
LEAD & HOOK-UP WIRE
Appliance & Building Wire
Automotive & Military Wire

...AND MORE!

Coleman Cable Inc.
800.323.9355 / www.colemancable.com

Primary

Type SXL SAE J1128



SPECIFICATIONS

1. CONDUCTOR: Bare copper
2. INSULATION: Cross-Linked Polyethylene (XLP)
3. STANDARDS: SAE J1128; Ford (ESB-M1L85-A); Chrysler (MS-5919)
4. TEMPERATURE: -40°C to 125°C
5. NOMINAL VOLTAGE: 60 V DC (25 V AC) or less

APPLICATIONS

For general circuit wiring where resistance to oxidation at higher temperatures is necessary. Use where heat and flame resistance is a stringent requirement, such as in the engine compartment of vehicles.

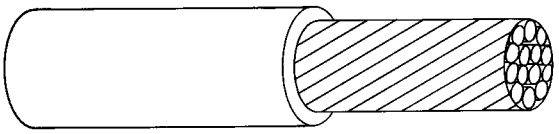
Anixter No.	SAE Wire Size mm^2	Conductor AWG	No. of Strands	Wall Thickness Minimum (mm)	Wall Thickness Minimum (in.)	Nominal O.D. (mm)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
6SXL-2001-XX	0.5	20	7x26	0.762	0.030	2.44	0.096	7
6SXL-1801-XX	0.8	18	19x30	0.762	0.030	2.59	0.102	9.3
6SXL-1601-XX	1	16	19x29	0.812	0.032	3.00	0.119	12.4
6SXL-1401-XX	2	14	19x27	0.889	0.035	3.48	0.139	18.9
6SXL-1201-XX	3	12	19x25	0.939	0.037	4.06	0.163	27.4
6SXL-1001-XX	5	10	19x23	1.040	0.041	4.85	0.193	41.4
6SXL-0801-XX	8	8	19x21	1.090	0.043	5.94	0.234	61.2

All part numbers require color code designation.
See Color Code chart at the end of this section.

1. Available on reels or in a drumpack.
2. Striped and solid colors available with custom printing and/or numbering.
3. Available cut and stripped to length, ready for termination.
4. For 6 AWG through 4/0 see SGX SAE J1127 (near the end of this section).
5. Tinned copper conductors available, special order.

Primary

Type GXL SAE J1128 Thin Wall



SPECIFICATIONS

1. CONDUCTOR: Bare copper
2. INSULATION: Cross-Linked Polyethylene (XLP)
3. STANDARDS: SAE J1128; Ford (ESB-M1L85-A); Chrysler (MS-8900)
4. TEMPERATURE: -40°C to 125°C
5. NOMINAL VOLTAGE: 60 V DC (25 V AC) or less

APPLICATIONS

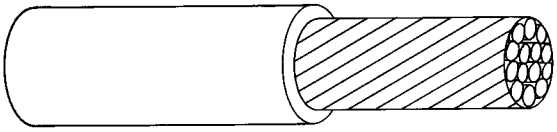
For general circuit wiring where resistance to oxidation at higher temperatures is necessary. Use where heat and flame resistance is a stringent requirement, such as in the engine compartment of vehicles.

Anixter No.	SAE Wire Size mm^2	Conductor AWG	No. of Strands	Wall Thickness Minimum (mm)	Wall Thickness Minimum (in.)	Nominal O.D. (mm)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
6GXL-2001-XX	0.5	20	7x28	0.5842	0.023	2.18	0.086	6.1
6GXL-1801-XX	0.8	18	16x30*	0.5842	0.023	2.34	0.092	7.9
6GXL-1601-XX	1	16	19x29	0.5842	0.023	2.62	0.103	10.5
6GXL-1401-XX	2	14	19x27	0.5842	0.023	2.97	0.117	15.9
6GXL-1201-XX	3	12	19x25	0.6604	0.026	3.61	0.142	24.2
6GXL-1001-XX	5	10	19x23	0.7874	0.031	4.55	0.179	37.8
6GXL-0801-XX	8	8	19x21	0.9398	0.037	5.49	0.216	68

* Alternate construction 19x31.
All part numbers require color code designation.
See Color Code chart at the end of this section.
1. Available on reels or in a drumpack.
2. Striped and solid colors available with custom printing and/or numbering
3. Available cut and stripped to length, ready for termination.
4. Tinned copper conductors available, special order.
UL version also available.

Primary

Type TXL SAE J1128 Extra Thin Wall



SPECIFICATIONS

1. CONDUCTOR: Bare copper
2. INSULATION: Cross-Linked Polyethylene (XLP)
3. STANDARDS: SAE J1128; Ford (ESB-M1L123-A); Chrysler (MS-8288)
4. TEMPERATURE: -40°C to 125°C
5. NOMINAL VOLTAGE: 60 V DC (25 V AC) or less

APPLICATIONS

For general circuit wiring where resistance to oxidation at higher temperatures is necessary. Use where heat and flame resistance is a stringent requirement, such as in the engine compartment of vehicles.

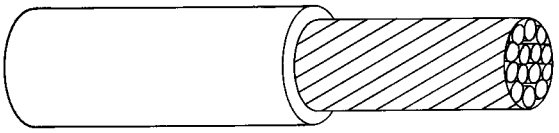
Anixter No.	SAE Wire Size mm^2	Conductor AWG	No. of Strands	Wall Thickness Minimum (mm)	Wall Thickness Minimum (in.)	Nominal O.D. (mm)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
6TXL-2201-XX	0.35	22	7x30	0.4064	0.016	1.70	0.062	3.8
6TXL-2001-XX	0.5	20	7x28	0.4064	0.016	1.90	0.070	5.1
6TXL-1801-XX	0.8	18	19x30*	0.4064	0.016	2.20	0.078	6.9
6TXL-1601-XX	1	16	19x29	0.4064	0.016	2.40	0.089	9.2
6TXL-1401-XX	2	14	19x27	0.4064	0.016	2.70	0.102	14.4
6TXL-1201-XX	3	12	19x25	0.4572	0.018	3.30	0.127	22.8
6TXL-1001-XX	5	10	19x23	0.508	0.020	4.00	0.155	34.8
6TXL-0801-XX	8	8	19x0.0295	0.5588	0.020	4.90	0.191	52.1

* Alternate construction 19x31.
All part numbers require color code designation.
See Color Code chart at the end of this section.

1. For use in automotive applications where reduced diameter and weight is required.
2. Available on reels or in a drumpack.
3. Striped and solid colors available with custom printing and/or numbering.
4. Available cut and stripped to length, ready for termination.
5. Tinned copper conductors available, special order.

Primary

Type GPT SAE J1128



SPECIFICATIONS

1. CONDUCTOR: Bare copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. STANDARDS: SAE J1128; Ford (ESF-M1L85-A); Chrysler (MS-3450)
4. TEMPERATURE: -40°C to 80°C
5. NOMINAL VOLTAGE: 60 V DC (25 V AC) or less

APPLICATIONS

For general circuit wiring per SAE J1128.

Anixter No.	SAE Wire Size mm^2	Conductor AWG	No. of Strands	Wall Thickness Minimum (mm)	Wall Thickness Minimum (in.)	Nominal O.D. (mm)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
6GPT-2001-XX	0.5	20	7x28	0.584	0.023	2.13	0.084	6
6GPT-1801-XX	0.8	18	16x30*	0.584	0.023	2.34	0.092	7.7
6GPT-1601-XX	1	16	19x29	0.584	0.023	2.62	0.103	10.3
6GPT-1401-XX	2	14	19x27	0.584	0.023	2.97	0.117	15.6
6GPT-1201-XX	3	12	19x25	0.660	0.026	3.61	0.142	23.8
6GPT-1001-XX	5	10	19x23	0.783	0.031	4.50	0.177	37.2
6GPT-0801-XX	8	8	19x21	0.939	0.037	5.64	0.222	57.3

* Alternate construction 16x0.0098.

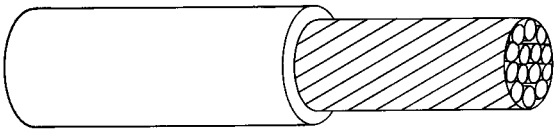
All part numbers require color code designation.

See Color Code chart at the end of this section.

1. Available on reels or in a drumpack.
2. Striped or solid colors available with custom printing and/or numbering.
3. Available cut and stripped to length, ready for terminations.
4. For 6 AWG through 4/0 see SGX SAE J1127.
5. Tinned copper conductors also available, special order (GPTM-Marine)
6. Use 6GPTH- prefix for 105°C product.

Primary

Type TWP SAE J1128 Thin Wall



SPECIFICATIONS

1. CONDUCTOR: Bare copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. STANDARDS: SAE J1128; Ford (ESB-M1L120-A); Chrysler (MS-7889)
4. TEMPERATURE: -40°C to 80°C
5. NOMINAL VOLTAGE: 60 V DC (25 V AC) or less

APPLICATIONS

Used as general circuit wiring in the body and for lamps.

Anixter No.	SAE Wire Size mm^2	Conductor AWG	No. of Strands	Wall Thickness Minimum (mm)	Wall Thickness Minimum (in.)	Nominal O.D. (mm)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
6TWP-2201-XX	0.35	22	7x30	0.406	0.016	1.57	0.062	3.3
6TWP-2001-XX	0.5	20	7x28	0.406	0.016	1.78	0.070	4.9
6TWP-1801-XX	0.8	18	16x30*	0.406	0.016	1.98	0.078	6.7
6TWP-1601-XX	1	16	19x29	0.406	0.016	2.26	0.089	9
6TWP-1401-XX	2	14	19x27	0.406	0.016	2.62	0.103	14.1
6TWP-1201-XX	3	12	19x25	0.4572	0.018	3.20	0.126	21.6
6TWP-1001-XX	5	10	19x23	0.508	0.020	3.94	0.155	33.8

* Alternate construction 16x0.0098

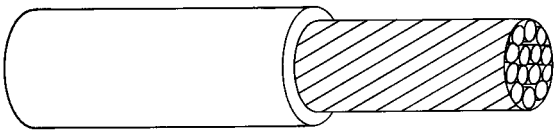
All part numbers require color code designation.

See Color Code chart at the end of this section.

1. For use in automotive applications where reduced diameter and weight is required.
2. Available on reels or in a drumpack.
3. Striped or solid colors available with custom printing and/or numbering.
4. Available cut and stripped to length, ready for termination.
5. Tinned copper conductors also available, special order.

Battery

Type SGT SAE J1127 Battery Cable



SPECIFICATIONS

1. CONDUCTOR: Bare copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. STANDARDS: SAE J1127
4. TEMPERATURE: -40°C to 105°C
5. NOMINAL VOLTAGE: 60 V DC (25 V AC) or less

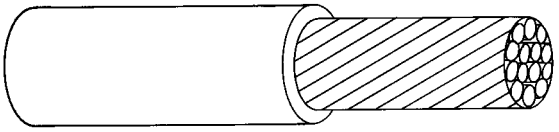
APPLICATIONS

For use in starter and battery ground circuits.

Anixter No.	SAE Wire Size mm^2	Conductor AWG	No. of Strands	Wall Thickness Minimum (mm)	Wall Thickness Minimum (in.)	Nominal O.D. (mm)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
5JB-0601-XX	13	6	133	1.52	0.060	7.87	0.310	106
5JB-0401-XX	19	4	133	1.65	0.065	9.04	0.356	150
5JB-0201-XX	32	2	133	1.65	0.065	10.74	0.423	239
5JB-0101-XX	40	1	259	1.65	0.065	11.63	0.458	305
5JB-1011-XX	50	1/0	1026	1.65	0.065	13.34	0.525	362
5JB-2021-XX	67	2/0	1254	1.65	0.065	13.97	0.550	453
5JB-3031-XX	85	3/0	1615	1.98	0.078	16.28	0.641	581
5JB-4041-XX	107	4/0	2052	1.98	0.078	17.78	0.700	737

All part numbers require color code designation.
See Color Code chart at the end of this section.
Standard stranding, others available.

Type SGX SAE J1127 Battery Cable



SPECIFICATIONS

1. CONDUCTOR: Bare copper
2. INSULATION: XLPE
3. STANDARDS: SAE J1127
4. TEMPERATURE: -40°C to 125°C
5. NOMINAL VOLTAGE: 60 V DC (25 V AC) or less

APPLICATIONS

For use in starter and battery circuits where resistance to abrasion, heat and aging is desirable.

Anixter No.	SAE Wire Size mm^2	Conductor AWG	No. of Strands	Wall Thickness Minimum (mm)	Wall Thickness Minimum (in.)	Nominal O.D. (mm)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
5JBX-0601-XX	13	6	133	1.524	0.060	8.00	0.315	111
5JBX-0401-XX	19	4	133	1.651	0.065	9.49	0.374	167
5JBX-0201-XX	32	2	133	1.651	0.065	10.87	0.428	253
5JBX-0101-XX	40	1	259	1.651	0.065	11.68	0.460	307
5JBX-1011-XX	50	1/0	1026	1.651	0.065	13.28	0.523	369
5JBX-2021-XX	62	2/0	1254	1.651	0.065	14.68	0.578	461
5JBX-3031-XX	81	3/0	1615	1.981	0.078	16.61	0.654	589
5JBX-4041-XX	95	4/0	2052	1.981	0.078	18.13	0.714	746

All part numbers require color code designation.
See Color Code chart at the end of this section.
Standard stranding, others available.

Automotive Circuit Size Primary Wire and Battery Cable Color Code

Automotive Circuit Size Primary Wire Color Code

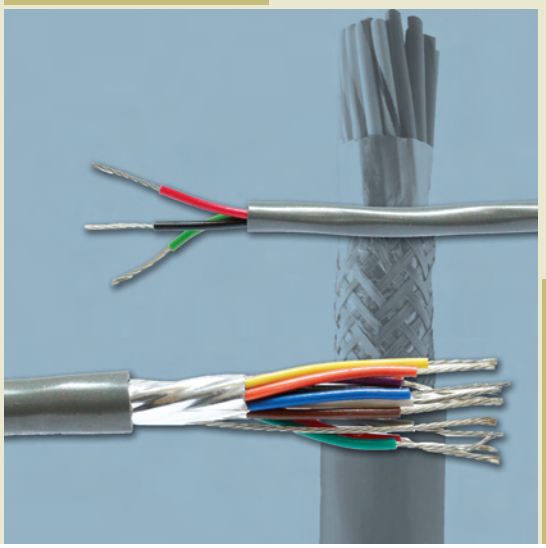
Number	Color	Letter	Color	Examples
1	Brown	M	Maroon	For white with black stripe - 90
2	Red	P	Pink	For green with yellow stripe - 54
3	Orange	S	Silver	For white with a black and red stripe - 902
4	Yellow	T	Tan	
5	Green			
6	Blue	D	Dark	For white and black twisted conductor 9/0
7	Violet/Purple	L	Light	For white, black, and red twisted conductors 9/0/2
8	Gray			
9	White			(D6 = Dark Blue)

Battery Cable Color Code

Code	Color
01	White
02	Black
03	Red
04	Green
05	Yellow
06	Blue
07	Brown
08	Orange
09	Gray
10	Purple/Violet

For a complete color code listing, refer to the color code chart on page 16.18.

3



Multiconductor and Multipair Electronic Cable

alpha

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General Cable

Leading Solutions for your

Enterprise & Industrial Applications

Belden is the market leader in High Quality, High Reliability Multi-conductor and Paired Cables.

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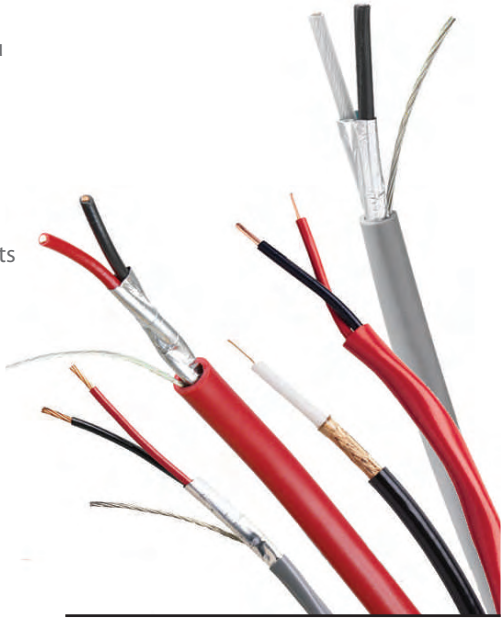
For your wire and cable needs, start with our Classics product line. Belden Classics cables provide Best-In-Class performance for a wide range of applications. Featuring numerous jackets & insulation compounds, shielding & armoring options, and industry and environmental ratings, Belden has the right product for your installation. Manufactured in ISO certified manufacturing facilities, Belden state-of-the-art processes assures quality that is designed into each product. Product consistency for ease of termination and assembly is a mainstay of the Classic products.

For more information on these products or any additional Belden product call **1.800.BELDEN.1** (1.800.235.3361) .

www.belden.com



BELDEN

SENDING ALL THE RIGHT SIGNALS®

Multiconductor and Paired Cable

Less than 25 Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
25 AWG and smaller														
1	—	—	—	—	B83303E	3.41	—	—	—	—	—	—	—	—
2	—	—	9454 8416	❖ ❖	B83317E	3.41	9180 9271	❖ ❖	—	—	—	—	—	—
3	—	—	B8791	3.37	B83332E 8643	3.41 ❖	—	—	—	—	—	—	—	—
4	—	—	—	—	B83347E 1804A 1172A	3.41 ❖ ❖	B1211A● 8132F0	3.39 ❖	B9804 B8132	3.55 3.57	1215A■ 7891A■	❖ ❖	—	—
6	—	—	—	—	—	—	B1212A● 8133F0	3.39 ❖	9791 B9805 B8133 1538A	❖ 3.55 3.57 ❖	—	—	—	—
7	—	—	—	—	—	—	—	—	1540A	❖	—	—	—	
8	—	—	—	—	—	—	B1213A● 8134F0	3.39 ❖	B9806 B8134	3.55 3.57	7890A■	❖	7884A◗	❖
10	—	—	—	—	—	—	8135F0	❖	B9807 B8135	3.55 3.57	—	—	—	—
14	—	—	—	—	—	—	—	—	B9808	3.55	9868■	❖	—	—
16	—	—	—	—	—	—	B1214A● 8138F0	3.39 ❖	B8138	3.57	7880A■	❖	7885A◗	❖
18	—	—	—	—	—	—	—	—	B9809	3.55	—	—	—	—
24	—	—	—	—	—	—	—	—	B9812	3.55	7892A■	❖	—	
24 AWG														
1	—	—	—	—	B83304E	3.41	—	—	—	—	—	—	—	—
2	8782	❖	9397 1812A 1813A	❖ ❖ ❖	B83318E 8413 9399 1800F	3.41 ❖ ❖ ❖	9452 B9501 B8641 B82641 B88641 1508A 1800B 1801B 1883A	❖ 3.50 3.53 3.66 3.66 ❖ ❖ ❖ ❖	B9841 B82841 B89841 7200A 7205A 7206A	3.57 3.69 3.70 ❖ ❖ ❖	—	—	—	—
3	—	—	9398	❖	B83333E 8406	3.41 ❖	B9533	3.34	B9608 B9925 B83503	3.38 3.38 3.44	—	—	—	—
4	9562▼ 1588A▼ 1588R▼ 1590A▼ 1227A1▼ 1243A2▼ 7932A 24501922	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	B83348E 1192A	3.41 ❖	B9534 B9502 B82502 B88102 B89842 B1419A 7933A	3.34 3.50 3.66 3.67 3.70 3.51 ❖	B9609 B9927 B83504 B9842 B82842 B8332 B9829 B8102 7201A	3.38 3.38 3.44 3.57 3.69 3.58 3.56 3.56 ❖	B9729 B89729 82729 8162■ 1509C■ 1802B◆	3.59 3.70 ❖ ❖ ❖ ❖	1902A	❖
5	—	—	—	—	—	—	B9535	3.34	B9610 B9929	3.38 3.38	—	—	—	—

▼Solid conductors
◆Siamese version
* Armored
● Duofoil® shield
■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.
† Triad
◗ Quad
❖ For information on this part number, please call us at 1.800.ANIXTER

Multiconductor and Paired Cable

Less than 25 Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
24 AWG *(continued)*														
6	24501934 24571097	❖ ❖	—	—	—	—	B9536 B9503 B82503 B89503 B9680 B1420A B88103	3.34 3.50 3.66 3.66 3.51 3.51 3.67	B9611 B9931 B83506 B9843 B9830 B8103 3120A 7202A B8333	3.38 3.38 3.44 3.57 3.56 3.56 ❖ ❖ 3.58	B9730 B89730 8163■ B9990	3.59 3.70 ❖ 3.59	—	—
7	—	—	—	—	—	—	B9537	3.34	B9612 B9932	3.38 3.38	—	—	—	—
8	1229A1▼ 1245A2▼ 1304A 1305A 1500A▼ 1500R▼ 1501A▼ 1583A▼ 1583R▼ 1583B▼ 1585A▼ 1585B▼ 1585LC▼ 1592A 1594A▼ 1700A▼ 1700R▼ 1701A▼ 1701LC▼ 1752A 1875GB 7883A 7918A 7923A 7924A 7928A 7930A 7934A 7987P 7987R 7988P 7988R 7997A 11700A 11700A2 121700A* 11872A 245019XX 24566XXX 24567XXX 24568XXX 24570XXX 245711XX	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	B9538 B9504 B82504 B89504 B9681 B88104 B1421A 1533R▼ 1533P▼ 1624R▼ 1624P▼ 1633A▼ 7919A 7921A 7929A 1300A 1300SB	3.34 3.50 3.66 3.66 3.51 3.67 3.51 ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	B9933 B9844 B9831 B9613 B8334 B8104 7921A 7203A B89842	3.38 3.57 3.56 3.38 3.58 3.56 ❖ ❖ 3.70	B9728 B89728 8164■ 1408R■ 1510C■ 1803F■	3.59 3.70 3.62 ❖ ❖ ❖	1904A	❖

▼Solid conductors
◆Siamese version

* Armored
● Duofoil® shield

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.

† Triad
◗ Quad

❖ For information on this part number, please call us at 1.800.ANIXTER

Multiconductor and Paired Cable

Less than 25 Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
24 AWG *(continued)*														
9	—	—	—	—	—	—	B9539	3.34	B9614 B9934 B83509	3.38 3.38 3.44	—	—	—	—
10	—	—	—	—	—	—	B9540 B9505 B82505 B89505 B1422A B88105	3.34 3.50 3.66 3.66 3.51 3.67	B9615 B9935 B8335 B9832 B8105	3.38 3.38 3.58 3.56 3.56	B8165■ B89705	3.62 3.70	—	—
12	9566▼ 24501829	❖ ❖	—	—	—	—	B9506 B82506 B9682 B1423A B88106	3.50 3.66 3.51 3.51 3.67	B83512 B8336 B9839 B8106	3.44 3.58 3.56 3.56	B9731 B89731 B9991 B8166■ 1409R■ 1511C■	3.59 3.70 3.59 3.62 ❖ ❖	1906A	❖
14	—	—	—	—	—	—	B9507	3.50	B8337 B9833 B8107	3.58 3.56 3.56	8167■ B89757	❖ 3.70	—	—
15	—	—	—	—	—	—	B9541 B88107	3.34 3.67	B9616 B9936 B83515	3.38 3.38 3.44	—	—	—	—
16	1702A◆▼ 1703A◆▼	❖ ❖	—	—	—	—	B9508 1668A▼	3.50 ❖	B8108	3.56	B8168■ 1410R■ 1512C■ 1805F■	3.62 ❖ ❖ ❖	1908A	❖
18	—	—	—	—	—	—	B9509 B82509 B9683 B88109	3.50 3.66 3.51 3.67	B9834	3.56	B9732 B89732 B9992	3.59 3.70 3.59	—	—
20	9570▼	❖	—	—	—	—	B9542 B9510	3.34 3.50	B8340 B9835 B8110	3.58 3.56 3.56	B8170■	3.62	—	—
22	—	—	—	—	—	—	—	—	—	—	9733	❖	—	—
24	24501837	❖	—	—	—	—	—	—	B9836	3.56	B9734 B9993 B89734 1411R■ 1513C■ 1806F■	3.59 3.59 3.70 ❖ ❖ ❖	1912A	❖

▼Solid conductors
◆Siamese version
* Armored
● Duofoil® shield
■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.
† Triad
◗ Quad
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Multiconductor and Paired Cable

Less than 25 Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
23 AWG														
8	1872A▼ 1874A▼ 7813LC 7851A▼ 7851NH 7852A▼ 7881A▼ 7882A▼ 7927A 7931A 7989P 7989R 11872A▼ 121872A▼ 24586XXX 24588XXX 245873XX	❖	—	—	—	—	—	—	—	—	—	—	—	—
22 AWG														
1	—	—		—	B9965 B83305E	3.37 3.41	—	—	—	—	—	—	—	—
2	8795▼ B8442 B88442 B82442 9712 9151 B8740▼ 9407	❖ 3.30 3.42 3.42 ❖ ❖ 3.46 ❖	B8737	3.55	B9966 B83319E 8422 8437▼ B8441	3.37 3.41 ❖ ❖ ❖	B83394 B8450▼ 9414 B9462 B8761 B9461 8451 B9451 1266A 1503A B88761 B87761 B82761 9182● 89182● 3077F 3078F 3079E 9322 B9451P 9451SB	3.40 3.52 ❖ 3.52 3.53 3.53 ❖ 3.64 ❖ ❖ 3.68 3.68 3.67 ❖ ❖ ❖ ❖ ❖ ❖ 3.69 ❖	B83552 3079A 3105A 1696A	3.44 ❖ ❖ ❖	—	—	—	—

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* Armored
● Duofoil® shield
■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.
† Triad
◗ Quad
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Multiconductor and Paired Cable

Less than 25 Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
22 AWG *(continued)*														
3	8794▼ B8443 9491† 9363†	❖ 3.30 ❖ ❖	—	—	B8735 B9967 B83334E	3.36 3.37 3.41	B9770 B8771 B83395	3.35 3.35 3.40	9939 B83553 3106A	❖ 3.44 ❖	—	—	—	—
4	9794▼ B8444 B88444 B82444 B8741▼ B9744 B88741 B82741 1242A	❖ 3.30 3.42 3.42 3.46 3.47 3.65 3.65 ❖	—	—	B9968 B83349E	3.37 3.41	B8729 B83396 B9302▼ 9184▼ 3000A 9512 B9451DP	3.35 3.40 3.52 ❖ ❖ ❖ 3.69	9940 B83554 B8302 9855▼ 1268A▼ 89855▼ 1269A▼ 9696▼ 89696▼ 3107A	❖ 3.44 3.58 ❖ ❖ ❖ ❖ ❖ ❖ ❖	9406 B8723 B82723 8723SB B88723 B87723 B8728■ 9688■▼ 82688■▼ 1634A■▼ 3087A 9328 3001A■ 1814R■ 1502P 1502R B9451D◆ 1504A◆	❖ 3.60 3.70 ❖ 3.71 3.71 3.62 ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ 3.64 ❖	—	—
5	B8445	3.30	—	—	—	—	—	—	9941	❖	—	—	—	—
6	9576▼ B8742▼ B9745 B82742	❖ 3.46 3.47 3.65	—	—	—	—	3002A† 9513	❖ ❖	9942 B83556 B8303 3108A	❖ 3.44 3.58 ❖	3003A†■ B8767▼ B8777 B82777 B88777 B87777 8777SB 9329	❖ 3.60 3.61 3.70 3.71 3.71 ❖ ❖		
7	B9430	3.30	—	—	—	—	—	—	9943	❖				

▼Solid conductors
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* Armored
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■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.
† Triad
◗ Quad
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Multiconductor and Paired Cable
Less than 25 Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
22 AWG *(continued)*														
8	B9421 B8757▼ B9746 B88757 B82757 7922A	3.30 3.46 3.47 3.65 3.65 ❖	—	—	—	—	B9305▼ 3004A 9514	3.52 ❖ ❖	9944 B8304 3109A	❖ 3.58 ❖	9330 3005A■ 1815R■ 1217B 9891■	❖ ❖ ❖ ❖ ❖	—	—
9	B9423	3.30	—	—	—	—	—	—	9945 B83559	❖ 3.44	—	—	—	—
10	B8456	3.30	—	—	—	—	—	—	9946 B8305	❖ 3.58	—	—	—	—
12	B8457 B8743▼ B8747 B82743	3.30 3.46 3.47 3.65	—	—	—	—	B9306▼ 9516	3.52 ❖	B83562 B8306	3.44 3.58	B8768▼ B8778 B82778 B88778 B87778 9331 1816R■ 1218B	3.60 3.61 3.70 3.71 3.71 ❖ ❖ ❖	—	—
14	—	—	—	—	—	—	—	—	B8307	3.58	—	—	—	—
15	B8458	3.30	—	—	—	—	—	—	9947	❖	—	—	—	—
16	B9160▼	3.46	—	—	—	—	3006A	❖	B8308	3.58	3007A■ 1817R■	❖ ❖	—	—
18	B8744▼ B8748	3.46 3.47	—	—	—	—	B9309▼ 9520	3.52 ❖	—	—	B8764▼ B8774 9332 1219B	3.60 3.61 ❖ ❖	—	—
19	—	—	—	—	—	—	—	—	B83569	3.44	—	—	—	—
20	B9431	3.30	—	—	—	—	—	—	B8310	3.58	—	—	—	—
22	—	—	—	—	—	—	9521	❖	—	—	B8765▼ B8775 9333	3.60 3.61 ❖	—	—
24	B9747	3.47	—	—	—	—	3008A	❖	—	—	B9768 3009A■ 1818R■ 1220B	3.61 ❖ ❖ ❖	—	—

▼Solid conductors
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† Triad
◗ Quad
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Multiconductor and Paired Cable

Less than 25 Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
20 AWG														
1	—	—	—	—	B9961 B83306E	3.37 3.41	—	—	—	—	—	—	—	—
2	B85220 7400A 83930 83932▼ 83934▼ 83915▼ 83900▼ 83905▼ 83910▼ 8649 B8205 9408	3.33 ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ 3.48 ❖	B8759	3.55	B9962 B83320E 8412 8402 9272	3.37 3.41 ❖ ❖ ❖	B9802▼ B83393 B85230 B8762 B9464 B9154 9320 1033A 3111A 3112A 3113A 83955 83950 83952 83954	3.39 3.40 3.40 3.53 3.53 3.52 ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	B83602 9207● 9463 9463DB 89463 129463* 139463* 189463* 9463F	3.44 ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	22671■ 23543*■ 26530*■	❖ ❖ ❖	—	—
3	7101A 7401A 9492†	❖ ❖ ❖	—	—	B9963 B83335E 7401AS 8423 8403	3.37 3.41 ❖ ❖ ❖	B8772 B9803▼ B85240 9364† 1526A†	3.52 3.39 3.40 ❖ ❖	—	—	22660†■ 23545*†■ 26539*†■	❖ ❖ ❖	—	—
4	B9444 7102A 7402A 8484	3.30 ❖ ❖ ❖	—	—	B9964 B83350E 7402AS 8424 8404	3.37 3.41 ❖ ❖ ❖	3016A	❖	B83604	3.44	9402 1075A■ 3115A■ 22638■ 23534*■ 26531*■	❖ ❖ ❖ ❖ ❖ ❖	—	—
5	B9445 7403A	3.30 ❖	—	—	7403AS 8405 8425	❖ ❖ ❖	—	—	—	—	—	—	—	—
6	B9750	3.48	—	—	B9260 8426	3.36 ❖	3017A†	❖	B83606	3.44	3018A†■ 22662†■ 23546*†■ 26540*†■ B9883 B9873	❖ ❖ ❖ ❖ 3.61 3.61	—	—
7	B9439 7404A	3.30 ❖	—	—	7404AS 8427	❖ ❖	—	—	—	—	—	—	—	—
8	—	—	—	—	8418 9892	❖ ❖	B85164 1056A	3.50 ❖	—	—	B8725 9891■ 9901●■ 89901●■ 89892■ 1076A■ 1006A■ 1012A■ 22639■ 23514*■ 26532*■	3.63 ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
9	B9455 7105A 7405A	3.30 ❖ ❖	—	—	—	—	—	—	B83609	3.44	—	—	—	—
10	—	—	—	—	—	—	B9890▼	3.39	—	—	9902●■	❖		

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† Triad
◗ Quad
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Less than 25 Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
20 AWG *(continued)*														
12	B9457 7106A 7406A B9751	3.30 ❖ ❖ 3.48	—	—	B9261 7106AS	3.36 ❖	3020A†	❖	B83612	3.44	1083A†■ 22663†■ 23547*†■ 26541*†■ B9886 B9874 22640■ 23513*■ 26533*■	❖ ❖ ❖ ❖ 3.61 3.61 ❖ ❖ ❖	—	—
15	B9458	3.30	—	—	—	—	B9894▼	3.39	—	—	—	—	—	—
16	—	—	—	—	—	—	B85168 1057A	3.50 ❖	—	—	1077A■ 1013A■ 22641■ 23503*■ 26534*■	❖ ❖ ❖ ❖ ❖	—	—
18	7107A 7407A B9752	❖ ❖ 3.48	—	—	—	—	—	—	—	—	B9875	3.61	—	—
22	—	—	—	—	—	—	—	—	—	—	9876	❖	—	—
24	—	—	—	—	—	—	3021A† 1058A	❖ ❖	—	—	1084A†■ 22672†■ 23548*†■ 26542*†■ B9877 1078A■ 1014A■ 22676■ 23521*■ 26535*■	❖ ❖ ❖ ❖ 3.61 ❖ ❖ ❖ ❖ ❖	—	—
19 AWG														
2	8486	❖	—	—	—	—	—	—	—	—	—	—	—	—
18 AWG														
1	—	—	—	—	B83307E	3.41	—	—	—	—	—	—	—	—
2	9571▼ 7409A 27916A 27325A 9708 8460 1863A B8461 29030* B9740 B89740 87740 B82740 9409 9486	❖ ❖ ❖ ❖ ❖ ❖ ❖ 3.48 ❖ 3.48 3.65 ❖ 3.65 ❖ ❖	B8790	3.55	B83321E 8428 9250 B8208	3.41 ❖ ❖ 3.54	27325AS 9574▼ B8760 B9460 B88760 B87760 B82760 3076F 9318 1032A 9341 1120A 3088A 3088AE 3088CE	❖ ❖ 3.53 3.53 3.68 3.68 3.67 ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	B83652 3072F 3073F 3074F	3.44 ❖ ❖ ❖	22645■ 23533*■ 26514*■ 22417■ 24511*■ 25506*■	❖ ❖ ❖ ❖ ❖ ❖	—	—

▼ Solid conductors
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† Triad
◗ Quad
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Multiconductor and Paired Cable

Less than 25 Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
18 AWG *(continued)*														
3	7110A 7410A 9493† 27334A 29031*	❖ ❖ ❖ ❖ ❖	B8791	3.37	B83336E	3.41	27334AS B8770 B88770 9365† 1036A† 1121A† 3089A†	❖ 3.35 3.43 ❖ ❖ ❖ ❖	B83653	3.44	22677†■ 23505*†■ 26522*†■ 22442†■ 24516*†■ 25500*†■ 3088AE 3088CE	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
4	B8489 B88489 B82489 7411A 27326A 29032* B9156	3.30 3.42 3.42 ❖ ❖ ❖ 3.48	—	—	B83351E 7111AS 7411AS	3.41 ❖ ❖	27326AS B9418 B89418 B82418 9578▼ 9552 3025A 1063A	❖ 3.34 3.43 3.43 ❖ ❖ ❖ ❖	B83654	3.44	9368 1474A■ 1048A■ 22633■ 23511*■ 26515*■ 22405■ 24512*■ 25514*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
5	B8465 7412A 27335A 29033*	3.30 ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
6	27600A 29034* B8690	❖ ❖ 3.48	—	—	—	—	3027A† 9553 1529A	❖ ❖ ❖	B83656	3.44	3028A†■ 3064A†■ 22678†■ 23516*†■ 26523*†■ 22443†■ 24517*†■ 25522*†■ B9773 9369	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ 3.61 ❖	—	—
7	B8467 7113A 7413A 27327A 29035*	3.30 ❖ ❖ ❖ ❖	—	—	7413AS	❖	—	—	—	—	—	—	—	—
8	27601A 29036* B9157	❖ ❖ 3.48	—	—	—	—	9554 1466A 1064A	❖ ❖ ❖	—	—	3029A 9388 1475A■ 1049A■ 22648■ 23530*■ 26516*■ 22404■ 24513*■ 25503*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
9	B8469 7414A 27336A	3.30 ❖ ❖	—	—	—	—	—	—	B83659	3.44	—	—	—	—
10	27328A 29038* B9159	❖ ❖ 3.48	—	—	—	—	—	—	—	—	—	—	—	—
11	27602A	❖	—	—	—	—	—	—	—	—	—	—	—	—

▼Solid conductors
◆Siamese version
* Armored
● Duofoil® shield
■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.
† Triad
◗ Quad
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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
18 AWG *(continued)*														
12	B8466 7115A 7415A 27329A 29040* B8691	3.30 ❖ ❖ ❖ ❖ 3.48	—	—	7115AS 7415AS	❖ ❖	3030A† 9556	❖ ❖	83662	❖	3031A†■ 1093A†■ 22679†■ 23515*†■ 26524*†■ 22444†■ 24518*†■ 25520*†■ B9774 9389 22634■ 23528*■ 26517*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ 3.61 ❖ ❖ ❖ ❖	—	—
13	27603A	❖	—	—	—	—	—	—	—	—	—	—	—	—
14	27604A	❖	—	—	—	—	—	—	—	—	—	—	—	—
15	B8468 27605A 29043*	3.30 ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
16	27606A B9161	❖ 3.48	—	—	—	—	1467A 1065A	❖ ❖	—	—	1476A■ 1050A■ 22635■ 23531*■ 26518*■ 22418■ 24514*■ 25505*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
17	27607A	❖	—	—	—	—	—	—	—	—	—	—	—	—
18	7116A 7416A 27608A B8692	❖ ❖ ❖ 3.48	—	—	7416AS	❖	9559	❖	—	—	23508*†■ 26525*†■ B9775 9390	❖ ❖ 3.61 ❖	—	—
19	B8619 27609A	3.30 ❖	—	—	—	—	—	—	—	—	—	—	—	—
20	27610A 29048*	❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
22	—	—	—	—	—	—	9563	❖	—	—	9391	❖		
24	B9741	3.48	—	—	—	—	3032A† 1468A 1066A	❖ ❖ ❖	—	—	3033A†■ 1094A†■ 22680†■ 23523*†■ 26526*†■ 22445†■ 24519*†■ 25523*†■ B9776 1477A■ 1051A■ 22636■ 23524*■ 26519*■ 22421■ 24515*■ 25501*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ 3.61 ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—

▼Solid conductors
◆Siamese version
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† Triad
◗ Quad
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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
16 AWG														
1	—	—	—	—	B9951 B83308E	3.37 3.41	—	—	—	—	—	—	—	—
2	B8677 B85221 B85102 9572▼ 7421A 27917A 27337A 9716 8470 9497 1862A B8471 29017* 9410 1035A 9487 1307A	3.32 3.33 3.33 ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ 3.48 ❖ ❖ ❖ ❖ ❖	B8780	3.55	B9952 B83322E 8408	3.37 3.41 ❖	B85231 9575▼ 27337AS B8719 9316 1030A 1101A 1000A 1018A 1023A 1114A▼ 1115A▼ 1116A▼ 1117A▼ 83951 83953 9342 1118A 3090A 3090AE 3090CE	3.40 ❖ ❖ 3.54 ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	B83702 9860●▼	3.45 ❖	22646■ 23501*■ 26500*■ 22416■ 24500*■ 25504*■	❖ ❖ ❖ ❖ ❖ ❖	—	—
3	9498 B85103 7122A 7422A 9494† 1034A† 27331A 29004*	❖ 3.33 ❖ ❖ ❖ ❖ ❖ ❖	—	—	B9953 B83337E	3.37 3.41	B8618 B85241 9366† 1031A† 1119A† 3091A† 27331AS	3.35 3.40 ❖ ❖ ❖ ❖ ❖	B83703	3.45	22603†■ 23507*†■ 26502*†■ 22413†■ 24501*†■ 25502*†■	❖ ❖ ❖ ❖ ❖ ❖	—	—
4	B8620 7423A 27338A 29018* 3082K 3082KP 1308A	3.31 ❖ ❖ ❖ ❖ ❖ ❖	—	—	B9954 B83352E 7123AS 7423AS 8407	3.37 3.41 ❖ ❖ ❖	9579▼ 3043A 1069A	❖ ❖ ❖	B83704 29500	3.45 ❖	1492A■ 1055A■ 22628■ 23527*■ 26501*■ 22409■ 24505*■ 25510*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
5	B9620 9420 85105 7424A 27339A 29019*	3.31 ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
6	27615A 29005*	❖ ❖	—	—	—	—	3044A† 1528A 1527A	❖ ❖ ❖	B83706	3.45	3045A†■ 22687†■ 23522*†■ 26509*†■ 22448†■ 24507*†■ 25507*†■ 1037A■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
7	B8621 9422 85107 7125A 7425A 27323A 29020*	3.31 ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—

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◗ Quad
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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
16 AWG *(continued)*														
8	B9721 27616A 29021*	3.31 ❖ ❖	—	—	—	—	1484A 1070A	❖ ❖	—	—	1493A■ 1039A■ 22629■ 23509*■ 26503*■ 22410■ 24502*■ 25511*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
9	B9621 9424 B85109 7126A 7426A 27340A	3.31 ❖ 3.33 ❖ ❖ ❖	—	—	—	—	—	—	B83709	3.45	—	—	—	—
10	27617A 29022*	❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
11	27618A	❖	—	—	—	—	—	—	—	—	—	—	—	—
12	B8622 9425 7127A 7427A 27341A 29006*	3.31 ❖ ❖ ❖ ❖ ❖	—	—	7427AS	❖	3046A†	❖	B83712	3.45	3047A†■ 1097A†■ 22675†■ 23520*†■ 26510*†■ 22414†■ 24508*†■ 25509*†■ 1040A■ 22630■ 23500*■ 26504*■ 22446■ 24506*■ 25512*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
13	27619A	❖	—	—	—	—	—	—	—	—	—	—	—	—
14	27620A	❖	—	—	—	—	—	—	—	—	—	—	—	—
15	B8623 27621A 29023*	3.31 ❖ ❖	—	—	—	—	—	—	B83715	3.45	—	—	—	—
16	9427 27330A	❖ ❖	—	—	—	—	1485A 1071A	❖ ❖	—	—	1494A■ 1041A■ 22631■ 23510*■ 26505*■ 22411■ 24503*■ 25513*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
17	27622A	❖	—	—	—	—	—	—	—	—	—	—	—	—
18	7128A 7428A 27623A	❖ ❖ ❖	—	—	7428AS	❖	—	—	—	—	22688†■ 23529*†■ 26511*†■	❖ ❖ ❖	—	—
19	B8624	3.31	—	—	—	—	—	—	B83719	3.45	—	—	—	—
20	9429 27625A 29007*	❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—

▼ Solid conductors
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† Triad
◗ Quad
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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
16 AWG *(continued)*														
24	—	—	—	—	—	—	3048A† ❖ 1486A ❖ 1072A ❖		—	—	3049A†■ ❖ 1098A†■ ❖ 22689†■ ❖ 23526*†■ ❖ 26512*†■ ❖ 22415†■ ❖ 24509*†■ ❖ 25508*†■ ❖ 1495A■ ❖ 1042A■ ❖ 22632■ ❖ 23525*■ ❖ 26506*■ ❖ 22412■ ❖ 24504*■ ❖ 25518*■ ❖		—	—
14 AWG														
2	B8675 3.32 9580▼ ❖ 7434A ❖ 27080A ❖ 27636A ❖ 9717 ❖ 1861A ❖ B8473 3.49 27243* ❖ 28243* ❖ 27840* ❖ 28840* ❖ 22100 ❖ C5500* ❖ 9411 ❖ 9488 ❖ 1309A ❖		—	—	—	—	9581▼ ❖ B8720 3.54 9314 ❖ 9343 ❖ 3080A ❖		B83752	3.45	—	—	—	—
3	7435A ❖ 9495† ❖ 27081A ❖ 27244* ❖ 28244* ❖ 27841* ❖ 28841* ❖ 22101 ❖ C5501* ❖ C5701* ❖		—	—	—	—	9367† ❖ 3081A† ❖ 27081AS ❖		B83753	3.45	—	—	—	—
4	B8627 3.31 7136A ❖ 7436A ❖ 27082A ❖ 1810A ❖ 27245* ❖ 28245* ❖ 27842* ❖ 28842* ❖ 22102 ❖ C5502* ❖ C5702* ❖ 1310A ❖		—	—	7136AS ❖ 7436AS ❖		27082AS ❖		B83754 ❖ 29501 ❖		—	—	—	—

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◗ Quad
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Less than 25 Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
14 AWG *(continued)*														
5	B9623	3.31	—	—	—	—	—	—	—	—	—	—	—	—
	27083A	❖												
	27246*	❖												
	28246*	❖												
	27843*	❖												
	28843*	❖												
	22103	❖												
	C5503*	❖												
6	27084A	❖	—	—	—	—	—	—	B83756	3.45	—	—	—	—
	27247*	❖												
	28247*	❖												
	27844*	❖												
	28844*	❖												
	22104	❖												
	C5504*	❖												
7	B8628	3.31	—	—	7438AS	❖	—	—	—	—	—	—	—	—
	7438A	❖												
	27085A	❖												
	27248*	❖												
	28248*	❖												
	27845*	❖												
	28845*	❖												
	22105	❖												
	C5505*	❖												
8	27086A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	1811A	❖												
	27269*	❖												
	28269*	❖												
	27846*	❖												
	28846*	❖												
	22106	❖												
	C5506*	❖												
9	7439A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27087A	❖												
	27535*	❖												
	28535*	❖												
	22107	❖												
10	27088A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27249*	❖												
	28249*	❖												
	27847*	❖												
	28847*	❖												
	22108	❖												
	C5508*	❖												
11	27089A	❖	—	—	—	—	—	—	—	—	—	—	—	
12	B8629	3.31	—	—	—	—	—	—	—	—	—	—	—	—
	7440A	❖												
	27090A	❖												
	27250*	❖												
	28250*	❖												
	27848*	❖												
	28848*	❖												
	22110	❖												
	C5510*	❖												
13	27091A	❖	—	—	—	—	—	—	—	—	—	—	—	—
14	27092A	❖	—	—	—	—	—	—	—	—	—	—	—	—
15	27093A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27251*	❖												
	28251*	❖												
	27849*	❖												
	28849*	❖												
	C5513*	❖												

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◗ Quad
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Less than 25 Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
14 AWG *(continued)*														
16	27094A 22114	❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
17	27095A	❖	—	—	—	—	—	—	—	—	—	—	—	—
18	27096A	❖	—	—	—	—	—	—	—	—	—	—	—	—
19	27097A 27969* 28969*	❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
20	27098A 27252* 28252* 27850* 28850* 22118 C5518*	❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
21	27099A	❖	—	—	—	—	—	—	—	—	—	—	—	—
22	27100A	❖	—	—	—	—	—	—	—	—	—	—	—	—
23	27101A	❖	—	—	—	—	—	—	—	—	—	—	—	—
24	27102A	❖	—	—	—	—	—	—	—	—	—	—	—	—
12 AWG														
2	B8673 9582▼ 27109A 27641A 9718 1860A B8477 27254* 28254* 27853* 28853* 22120 C5530* C5730* 9412 9489 1311A	3.32 ❖ ❖ ❖ ❖ ❖ 3.49 ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	9583▼ B8718 9312 9344 3103A	❖ 3.54 ❖ ❖ ❖	B83802	3.45	—	—	—	—
3	7444A 27110A 27255* 28255* 27854* 28854* 22121 C5531* C5731*	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	3102A† 3104A†	❖ ❖	B83803	3.45	—	—	—	—
4	7145A 7445A 27111A 27256* 28256* 27855* 28855* 22122 C5532* C5732* 1312A	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	7445AS	❖	—	—	B83804 29502	3.45 ❖	—	—	—	—

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◗ Quad
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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
12 AWG *(continued)*														
5	27112A ❖ 27271* ❖ 28271* ❖ 27856* ❖ 28856* ❖ 22123 ❖ C5533* ❖		—	—	—	—	—	—	—	—	—	—	—	—
6	27113A ❖ 27272* ❖ 28272* ❖ 27857* ❖ 28857* ❖ 22124 ❖ C5534* ❖		—	—	—	—	—	—	B83806	3.45	—	—	—	—
7	27114A ❖ 27273* ❖ 28273* ❖ 27858* ❖ 28858* ❖ 22125 ❖ C5535* ❖		—	—	—	—	—	—	—	—	—	—	—	—
8	27115A ❖ 27274* ❖ 28274* ❖ 27859* ❖ 28859* ❖ 22126 ❖ C5536* ❖		—	—	—	—	—	—	—	—	—	—	—	—
9	27116A ❖ 27538* ❖ 28538* ❖ 22127 ❖		—	—	—	—	—	—	—	—	—	—	—	—
10	27117A ❖ 27275* ❖ 28275* ❖ 27860* ❖ 28860* ❖ 22128 ❖ C5538* ❖		—	—	—	—	—	—	—	—	—	—	—	—
11	27118A ❖		—	—	—	—	—	—	—	—	—	—	—	—
12	27119A ❖ 27276* ❖ 28276* ❖ 27861* ❖ 28861* ❖ 22130 ❖ C5540* ❖		—	—	—	—	—	—	—	—	—	—	—	—
13	27120A ❖		—	—	—	—	—	—	—	—	—	—	—	—
14	27121A ❖		—	—	—	—	—	—	—	—	—	—	—	—
15	27122A ❖ 27277* ❖ 28277* ❖ 27862* ❖ 28862* ❖ C5543* ❖		—	—	—	—	—	—	—	—	—	—	—	—
16	27123A ❖ 22134 ❖		—	—	—	—	—	—	—	—	—	—	—	—
17	27124A ❖		—	—	—	—	—	—	—	—	—	—	—	—
18	27125A ❖		—	—	—	—	—	—	—	—	—	—	—	—

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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
12 AWG *(continued)*														
19	27126A 27539* 28539*	❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
20	27127A 27278* 28278* 27863* 28863* 22138 C5548*	❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
21	27128A	❖	—	—	—	—	—	—	—	—	—	—	—	—
22	27129A	❖	—	—	—	—	—	—	—	—	—	—	—	—
23	27130A	❖	—	—	—	—	—	—	—	—	—	—	—	—
24	27131A	❖	—	—	—	—	—	—	—	—	—	—	—	—
10 AWG														
2	B8678 27138A 27643A 27257* 28257* 27866* 28866* 22140 C5560* C5760* 1313A	3.32 ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
3	27139A 27258* 28258* 27867* 28867* 22141 C5561* C5761*	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
4	7447A 27140A 27259* 28259* 27868* 28868* 22142 C5562* C5762*	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	7447AS	❖	—	—	29503	❖	—	—	—	—
5	27141A 27281* 28281* 27869* 28869* 22143 C5563*	❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
6	27142A 27282* 28282* 27870* 28870* 22144 C5564*	❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—

▼Solid conductors
◆Siamese version
* Armored
● Duofoil® shield
■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.
† Triad
◗ Quad
❖ For information on this part number, please call us at 1.800.ANIXTER

Multiconductor and Paired Cable
Less than 25 Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
10 AWG *(continued)*														
7	27143A ❖ 27283* ❖ 28283* ❖ 27877* ❖ 28877* ❖ 22145 ❖ C5565* ❖		—	—	—	—	—	—	—	—	—	—	—	—
8	27144A ❖ 27284* ❖ 28284* ❖ 27878* ❖ 28878* ❖ 22146 ❖ C5566* ❖		—	—	—	—	—	—	—	—	—	—	—	—
9	27145A ❖ 27541* ❖ 28541* ❖ 22147 ❖		—	—	—	—	—	—	—	—	—	—	—	—
10	27146A ❖ 27285* ❖ 28285* ❖ 27879* ❖ 28879* ❖ 22148 ❖ C5568* ❖		—	—	—	—	—	—	—	—	—	—	—	—
11	27147A ❖		—	—	—	—	—	—	—	—	—	—	—	—
12	27148A ❖ 27286* ❖ 28286* ❖ 27880* ❖ 28880* ❖ 22150 ❖ C5570* ❖		—	—	—	—	—	—	—	—	—	—	—	—
14	22152 ❖		—	—	—	—	—	—	—	—	—	—	—	—
15	27287* ❖ 28287* ❖ 27881* ❖ 28881* ❖ C5573* ❖		—	—	—	—	—	—	—	—	—	—	—	—
16	22154 ❖		—	—	—	—	—	—	—	—	—	—	—	—
20	27288* ❖ 28288* ❖ 27882* ❖ 28882* ❖ C5578* ❖		—	—	—	—	—	—	—	—	—	—	—	—

▼ Solid conductors
◆ Siamese version
* Armored
● Duofoil® shield
■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.
† Triad
◗ Quad
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Less than 25 Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
8 AWG														
2	27149A 27291* 28291* 27871* 28871* 22160 C5583*	❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
3	27150A 27260* 28260* 27872* 28872* 22161 C5581*	❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
4	7450A 27151A 27261* 28261* 27873* 28873* 22162 C5582*	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	7450AS	❖	—	—	29504	❖	—	—	—	—
6 AWG														
2	27152A 27293* 28293* 27874* 28874* 22170 C5590*	❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
3	27153A 27262* 28262* 27875* 28875* 22171 C5591*	❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
4	7453A 27154A 27263* 28263* 27876* 28876* C5592*	❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	29505	❖	—	—	—	—

▼Solid conductors
◆Siamese version
* Armored
● Duofoil® shield
■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.
† Triad
◗ Quad
❖ For information on this part number, please call us at 1.800.ANIXTER

Multiconductor and Paired Cable

Less than 25 Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
4 AWG														
2	27155A 22180	❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
3	27156A 27264* 28264* 27894* 28894* 22181 C5601*	❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
4	27157A 27265* 28265* 27895* 28895* C5602*	❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	29506	❖	—	—	—	—
3 AWG														
3	27896* 28896* C5611*	❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
2 AWG														
2	27158A	❖	—	—	—	—	—	—	—	—	—	—	—	—
3	27159A 27267* 28267* 27888* 28888* C5621*	❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
4	27160A 27268* 28268* 27889* 28889* C5622*	❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	29507	❖	—	—	—	—
1 AWG														
3	27161A C5625*	❖ ❖	29528	❖	—	—	—	—	—	—	—	—	—	—
1/0 AWG														
3	C5627*	❖	29529	❖	—	—	—	—	—	—	—	—	—	—
2/0 AWG														
3	—	—	29530	❖	—	—	—	—	—	—	—	—	—	—
3/0 AWG														
3	6163	❖	29531	❖	—	—	—	—	—	—	—	—	—	—
4/0 AWG														
3	—	—	29532	❖	—	—	—	—	—	—	—	—	—	—

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† Triad
◗ Quad
❖ For information on this part number, please call us at 1.800.ANIXTER

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Less than 25 Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
25 AWG and smaller														
25	—	—	—	—	—	—	8142F0	❖	9637 B8142	❖ 3.57	—	—	—	—
26	—	—	—	—	—	—	—	—	B9813	3.55	—	—	—	—
32	—	—	—	—	—	—	—	—	—	—	7893A■	❖	7886A◗	❖
36	—	—	—	—	—	—	8148F0	❖	B8148 B9819	3.57 3.55	—	—	—	—
48	—	—	—	—	—	—	—	—	—	—	—	—	7887A◗	❖
50	—	—	—	—	—	—	8155F0	❖	B9825 B8155 1401A	3.55 3.57 ❖	—	—	—	—
62	—	—	—	—	—	—	—	—	B9814	3.55	—	—	—	—
64	—	—	—	—	—	—	—	—	—	—	—	—	7888A◗	❖
68	—	—	—	—	—	—	—	—	1403A	❖	—	—	—	—
96	—	—	—	—	—	—	—	—	—	—	—	—	7889A◗	❖
24 AWG														
25	—	—	—	—	—	—	B9543 B9684 B1424A 82512 B88112	3.34 3.51 3.51 ❖ 3.67	B9617 B9937 B8342 B8112	3.38 3.38 3.58 3.56	—	—	—	—
30	—	—	—	—	—	—	B9544 B9515 B1425A	3.34 3.50 3.51	8345 8115	❖ ❖	B9735 B8175■	3.59 3.62	—	—
32	—	—	—	—	—	—	—	—	—	—	1412R■ 1514C■ 1850F■	❖ ❖ ❖	1916A	❖
34	—	—	—	—	—	—	—	—	—	—	B9736	3.59	—	—
36	—	—	—	—	—	—	—	—	B8348 B9837 B8118	3.58 3.56 3.56	B8178■ B89758	3.62 3.70	—	—
37	—	—	—	—	—	—	B88118	3.67	B9618 B9938	3.38 3.38	—	—	—	—
38	—	—	—	—	—	—	B9519	3.50	—	—	B9737	3.59	—	—
40	—	—	—	—	—	—	B9545	3.34	—	—	1413R■ 1515C■	❖ ❖	—	—
48	1700S6 1701S6	❖ ❖	—	—	—	—	—	—	—	—	1414R■ 1516C■ 1852F■	❖ ❖ ❖	1924A	❖
50	9585▼ 1864A▼ 1871A▼ 1232A1▼ 22713010 24501858 24571221 24572XXX 24576XXX 24577XXX 25500XXX	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	B9546 B9525 B88125	3.34 3.50 3.67	B9619 B8355 9838 B8125	3.38 3.58 ❖ 3.56	B9995 B8185■	3.59 3.62	—	—
52	—	—	—	—	—	—	—	—	—	—	1415R■ 1517C■	❖ ❖	—	—
54	—	—	—	—	—	—	—	—	—	—	B9738	3.59	—	—
64	—	—	—	—	—	—	—	—	—	—	1416R■ 1518C■ 1854F■	❖ ❖ ❖	1932A	❖

▼Solid conductors
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* Armored
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† Triad
◗ Quad
❖ For information on this part number, please call us at 1.800.ANIXTER

Multiconductor and Paired Cable

Less than 25 Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
24 AWG *(continued)*														
100	—	—	—	—	—	—	9550	❖	—	—	—	—	—	—
104	—	—	—	—	—	—	—	—	—	—	1519C■	❖	—	—
100	24501877 24571235 22713020	❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
150	24501887	❖	—	—	—	—	—	—	—	—	—	—	—	—
200	24501897 24571250 22713030	❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
210	22713035	❖	—	—	—	—	—	—	—	—	—	—	—	—
400	24501906 24571265 22713040	❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
500	22713045	❖	—	—	—	—	—	—	—	—	—	—	—	—
600	24571266 22713050	❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
800	22713060	❖	—	—	—	—	—	—	—	—	—	—	—	—
1200	22713070	❖	—	—	—	—	—	—	—	—	—	—	—	—
1800	22713080	❖	—	—	—	—	—	—	—	—	—	—	—	—
2400	22713090	❖	—	—	—	—	—	—	—	—	—	—	—	—
22 AWG														
25	B8459	3.30	—	—	—	—	—	—	9948 B8312	❖ 3.58	—	—	—	—
30	B9432 B8749	3.30 3.47	—	—	—	—	B9315▼ 9524	3.52 ❖	B8315	3.58	B8766▼ B8776	360 3.61	—	—
32	—	—	—	—	—	—	3010A	❖	—	—	3011A■ 1819R■ 1222B	❖ ❖ ❖	—	—
34	—	—	—	—	—	—	—	—	—	—	B9769	3.61	—	—
36	—	—	—	—	—	—	9772†	❖	B8318	3.58	—	—	—	—
37	—	—	—	—	—	—	—	—	9949	❖	—	—	—	—
38	9748	❖	—	—	—	—	B9319▼ 9526	3.52 ❖	—	—	B8769 9335	3.61 ❖	—	—
40	B9433	3.30	—	—	—	—	—	—	—	—	1820R■ 1225B	❖ ❖	—	—
48	—	—	—	—	—	—	3012A	❖	—	—	3013A■ 1821R■ 1427B	❖ ❖ ❖	—	—
50	B9434	3.30	—	—	—	—	—	—	9950 B8325	❖ 3.58	—	—	—	—
52	—	—	—	—	—	—	—	—	—	—	1822R■	❖	—	—
54	B8750	3.47	—	—	—	—	B9327▼ 9527	3.52 ❖	—	—	B8773	3.61	—	—
56	—	—	—	—	—	—	—	—	—	—	1221B	❖	—	—
64	—	—	—	—	—	—	—	—	—	—	1823R■ 1226B	❖ ❖	—	—
74	—	—	—	—	—	—	—	—	—	—	B9767	3.61	—	—
76	—	—	—	—	—	—	8752▼	❖	—	—	—	—	—	—
100	—	—	—	—	—	—	3014A	❖	—	—	3015A■	❖	—	—
102	—	—	—	—	—	—	8751▼	❖	—	—	—	—	—	—
104	—	—	—	—	—	—	—	—	—	—	1428B	❖	—	—

▼ Solid conductors
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† Triad
◗ Quad
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Multiconductor and Paired Cable

25 or More Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
20 AWG														
25	7108A 7408A	❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
30	B9755	3.48	—	—	—	—	—	—	—	—	B9879	3.61	—	—
32	—	—	—	—	—	—	1059A	❖	—	—	1079A■ 22643■ 23532*■ 26536*■	❖ ❖ ❖ ❖	—	—
36	—	—	—	—	—	—	3022A†	❖	—	—	1085A†■ 23571*†■ 26553*†■	❖ ❖ ❖	—	—
40	—	—	—	—	—	—	—	—	—	—	1091A■	❖	—	—
48	—	—	—	—	—	—	3023A† 1060A	❖ ❖	—	—	1092A†■ 22673†■ 23549*†■ 26543*†■ 1080A■ 22647■ 23506*■ 26537*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
60	—	—	—	—	—	—	—	—	—	—	1086A†■	❖	—	—
72	—	—	—	—	—	—	3024A† 1061A	❖ ❖	—	—	3067A†■ 22674†■ 23550*†■ 26544*†■ 1081A■ 22670■ 23544*■ 26538*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
100	—	—	—	—	—	—	1062A	❖	—	—	1082A■ 23575*■ 26546*■	❖ ❖ ❖	—	—
18 AWG														
25	B9626 7117A 7417A 27611A 29053*	3.30 ❖ ❖ ❖ ❖	—	—	7417AS	❖	—	—	—	—	—	—	—	—
30	27612A 29058* B9742	❖ ❖ 3.48	—	—	—	—	9565	❖	—	—	B9777 9392	3.61 ❖	—	—
32	—	—	—	—	—	—	3034A 1067A	❖ ❖	—	—	3035A■ 1052A■ 22654■ 23519*■ 26520*■	❖ ❖ ❖ ❖ ❖	—	—
34	7418A	❖	—	—	—	—	—	—	—	—	—	—	—	—
36	—	—	—	—	—	—	—	—	—	—	3068A†■ 1095A†■ 23512*†■ 26527*†■	❖ ❖ ❖ ❖	—	—
37	27613A	❖	—	—	—	—	—	—	—	—	—	—	—	—
38	B9743	3.48	—	—	—	—	—	—	—	—	—	—	—	—

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† Triad
◗ Quad
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Multiconductor and Paired Cable

25 or More Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
18 AWG *(continued)*														
40	29068*	❖	—	—	—	—	—	—	—	—	—	—	—	—
41	7419A	❖	—	—	—	—	—	—	—	—	—	—	—	—
48	—	—	—	—	—	—	3036A† ❖ 1471A ❖ 1068A ❖		—	—	3037A†■ ❖ 3066A†■ ❖ 22681†■ ❖ 22683†■ ❖ 23537*†■ ❖ 26528*†■ ❖ 1480A■ ❖ 1053A■ ❖ 22637■ ❖ 23542*■ ❖ 26521*■ ❖ 22419■ ❖ 24520*■ ❖ 25517*■ ❖		—	—
50	27614A ❖ 29078* ❖		—	—	—	—	—	—	—	—	—	—	—	—
60	27632A	❖	—	—	—	—	—	—	—	—	—	—	—	—
72	—	—	—	—	—	—	3038A† ❖ 1472A ❖ 1087A ❖		—	—	3039A†■ ❖ 1096A†■ ❖ 22682†■ ❖ 22684†■ ❖ 23536*†■ ❖ 26529*†■ ❖ 1481A■ ❖ 1054A■ ❖ 23554*■ ❖ 26555*■ ❖		—	—
100	—	—	—	—	—	—	3041A ❖ 1088A ❖		—	—	3042A■ ❖ 1038A■ ❖		—	—
16 AWG														
25	B9622 3.31 7129A ❖ 29024* ❖ 7429A ❖		—	—	—	—	—	—	—	—	—	—	—	—
30	27626A ❖ 29008* ❖		—	—	—	—	—	—	—	—	—	—	—	—
32	—	—	—	—	—	—	3050A ❖ 1073A ❖		—	—	3051A■ ❖ 1043A■ ❖ 22685■ ❖ 23539*■ ❖ 26507*■ ❖		—	—
34	7430A	❖	—	—	—	—	—	—	—	—	—	—	—	—
36	—	—	—	—	—	—	—	—	—	—	3069A†■ ❖ 1099A†■ ❖ 22690†■ ❖ 23541*†■ ❖ 26513*†■ ❖		—	—
37	27627A	❖	—	—	—	—	—	—	—	—	—	—	—	—
40	29009*	❖	—	—	—	—	—	—	—	—	1044A■	❖	—	—

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25 or More Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
16 AWG *(continued)*														
48	—	—	—	—	—	—	3052A† ❖ 1489A ❖ 1074A ❖		—	—	3053A†■ ❖ 3118A†■ ❖ 23567*†■ ❖ 26545*†■ ❖ 1498A■ ❖ 1045A■ ❖ 22686■ ❖ 23538*■ ❖ 26508*■ ❖ 22447■ ❖ 24510*■ ❖ 25519*■ ❖		—	—
50	27628A ❖ 29016* ❖		—	—	—	—	—	—	—	—	—	—	—	—
60	27633A ❖ 29025* ❖		—	—	—	—	—	—	—	—	—	—	—	—
72	—	—	—	—	—	—	3054A† ❖ 1490A ❖ 1089A ❖		—	—	3055A†■ ❖ 1100A†■ ❖ 23578*†■ ❖ 26547*†■ ❖ 1499A■ ❖ 1046A■ ❖ 23568*■ ❖ 26551*■ ❖		—	—
100	—	—	—	—	—	—	3056A ❖ 1090A ❖		—	—	3057A■ ❖ 1047A■ ❖		—	—
108	—	—	—	—	—	—	—	—	—	—	3130A†■ ❖		—	—
14 AWG														
25	7442A ❖ 27103A ❖ 27270* ❖ 28270* ❖ 27851* ❖ 28851* ❖ C5503* ❖ C5523 ❖		—	—	—	—	—	—	—	—	—	—	—	—
26	27104A ❖		—	—	—	—	—	—	—	—	—	—	—	—
27	27105A ❖		—	—	—	—	—	—	—	—	—	—	—	—
28	27106A ❖		—	—	—	—	—	—	—	—	—	—	—	—
29	27107A ❖		—	—	—	—	—	—	—	—	—	—	—	—
30	27108A ❖ 27253* ❖ 28253* ❖ 27852* ❖ 28852* ❖ C5528* ❖		—	—	—	—	—	—	—	—	—	—	—	—
37	27629A ❖ 27292* ❖ 28292* ❖		—	—	—	—	—	—	—	—	—	—	—	—

▼Solid conductors
◆Siamese version

* Armored
● Duofoil® shield

■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.

† Triad
◗ Quad

❖ For information on this part number, please call us at 1.800.ANIXTER

Multiconductor and Paired Cable

25 or More Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
14 AWG *(continued)*														
40	27433* ❖ 28433* ❖ 27885* ❖ 28885* ❖ C5529* ❖		—	—	—	—	—	—	—	—	—	—	—	—
50	27912A ❖ 27434* ❖ 28434* ❖ 27886* ❖ 28886* ❖ C6064* ❖		—	—	—	—	—	—	—	—	—	—	—	—
12 AWG														
25	27132A ❖ 27279* ❖ 28279* ❖ 27864* ❖ 28864* ❖ C5553* ❖		—	—	—	—	—	—	—	—	—	—	—	—
26	27133A ❖		—	—	—	—	—	—	—	—	—	—	—	—
27	27134A ❖		—	—	—	—	—	—	—	—	—	—	—	—
28	27135A ❖		—	—	—	—	—	—	—	—	—	—	—	—
29	27136A ❖		—	—	—	—	—	—	—	—	—	—	—	—
30	27137A ❖ 27280* ❖ 28280* ❖ 27865* ❖ 28865* ❖ C5558* ❖		—	—	—	—	—	—	—	—	—	—	—	—
37	27630A ❖ 27540* ❖ 28540* ❖		—	—	—	—	—	—	—	—	—	—	—	—
40	27432* ❖ 28432* ❖ 27887* ❖ 28887* ❖		—	—	—	—	—	—	—	—	—	—	—	—
50	27634A ❖		—	—	—	—	—	—	—	—	—	—	—	—
10 AWG														
25	27289* ❖ 28289* ❖ 27883* ❖ 28883* ❖ C5579* ❖		—	—	—	—	—	—	—	—	—	—	—	—
30	27290* ❖ 28290* ❖ 27884* ❖ 28884* ❖ C5580* ❖		—	—	—	—	—	—	—	—	—	—	—	—

▼ Solid conductors
◆ Siamese version
* Armored
● Duofoil® shield
■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.
† Triad
◗ Quad
❖ For information on this part number, please call us at 1.800.ANIXTER

Multiconductor and Paired Cable

Combination Gages (Unshielded, Shielded and Partially Shielded)

No. of Conductors	Part No.	Conductor/Gage Description	Shielding	Page
Combination Gages				
4	3084A	1pr — 24 AWG 1pr — 22 AWG	Beldfoil® each pair plus braid overall	❖
	3084F	1pr — 24 AWG 1pr — 22 AWG	Beldfoil each pair plus braid overall	❖
	3085A	1pr — 24 AWG 1pr — 22 AWG	Beldfoil each pair plus braid overall	❖
	7895A	1pr — 20 AWG 1pr — 18 AWG	Beldfoil each pair plus braid overall	❖
	7900A	1pr — 18 AWG 1pr — 16 AWG	Unshielded	❖
	7896A	1pr — 18 AWG 1pr — 16 AWG	Beldfoil each pair plus braid overall	❖
	7897A	1pr — 18 AWG 1pr — 15 AWG	Beldfoil each pair plus braid overall	❖
	3082A	1pr — 18 AWG 1pr — 15 AWG	Beldfoil each pair plus braid overall	❖
	3083A	1pr — 18 AWG 1pr — 15 AWG	Beldfoil each pair plus braid overall	❖
	3082F	1pr — 18 AWG 1pr — 15 AWG	Beldfoil each pair plus braid overall	❖
	3086A	1pr — 20 AWG 1pr — 16 AWG	Individual Beldfoil each pair	❖
	3124A	2c — 22 AWG 2c — 18 AWG	Overall Beldfoil	❖
	3125A	2c — 22 AWG 2c — 16 AWG	Overall Beldfoil	❖
	1502P	1pr — 22 AWG 2c — 18 AWG	Beldfoil Unshielded	❖
	1502R	1pr — 22 AWG 2c — 18 AWG	Beldfoil Unshielded	❖
	B9155	1pr — 20 AWG 1pr — 18 AWG	Beldfoil Unshielded	3.64
6	B8446	4c — 22 AWG 2c — 18 AWG	Unshielded	3.31
	9686	3c — 20 AWG 3c — 16 AWG	Unshielded	❖
	B8786	4c — 24 AWG 2c — 22 AWG	Beldfoil over 4c, Unshielded	3.39
	3126A	2c — 22 AWG 2c — 16 AWG 2c — 12 AWG	Overall Beldfoil	❖
	27428*	3c — 14 AWG 3c — 12 AWG	Unshielded	❖
	28428*	3c — 14 AWG 3c — 12 AWG	Unshielded	❖
	27429*	3c — 14 AWG 3c — 10 AWG	Unshielded	❖
	28429*	3c — 14 AWG 3c — 10 AWG	Unshielded	❖
	27430*	3c — 14 AWG 3c — 8 AWG	Unshielded	❖
	28430*	3c — 14 AWG 3c — 8 AWG	Unshielded	❖
	27431*	3c — 14 AWG 3c — 6 AWG	Unshielded	❖

No. of Conductors	Part No.	Conductor/Gage Description	Shielding	Page
Combination Gages				
6 (cont'd)	28431*	3c — 14 AWG 3c — 6 AWG	Unshielded	❖
	27890*	3c — 14 AWG 3c — 12 AWG	Unshielded	❖
	28890* 27891*	3c — 14 AWG 3c — 12 AWG 3c — 14 AWG 3c — 10 AWG	Unshielded Unshielded	❖ ❖
	28891*	3c — 14 AWG 3c — 10 AWG	Unshielded	❖
	27892*	3c — 14 AWG 3c — 8 AWG	Unshielded	❖
	28892*	3c — 14 AWG 3c — 8 AWG	Unshielded	❖
	27893*	3c — 14 AWG 3c — 6 AWG	Unshielded	❖
	28893*	3c — 14 AWG 3c — 6 AWG	Unshielded	❖
	6054*	3c — 14 AWG 3c — 12 AWG	Unshielded	❖
	6051*	3c — 14 AWG 3c — 10 AWG	Unshielded	❖
	6059*	3c — 14 AWG 3c — 8 AWG	Unshielded	❖
	6060*	3c — 14 AWG 3c — 6 AWG	Unshielded	❖
8	9405	6c — 18 AWG 2c — 16 AWG	Unshielded	❖
	B8448	6c — 22 AWG 2c — 18 AWG	Unshielded	3.32
	9903●	3pr — 28 AWG 1pr — 24 AWG	Individual Beldfoil plus braid	❖
	9891●	3pr — 22 AWG 1pr — 20 AWG	Individual Beldfoil plus braid	❖
9	3119A●	3pr — 24 AWG 3c — 18 AWG	Overall Beldfoil plus braid	❖
10	8787	4c — 24 AWG 4c — 24 AWG 2c — 22 AWG	Red or Green Beldfoil over (2) Quads, Unshielded	❖
12	7949A	4pr — 24 AWG▼ 4c — 16 AWG	Unshielded	❖
	7950A	4pr — 24 AWG▼ 4c — 16 AWG	Unshielded	❖
	7951A	4pr — 24 AWG▼ 4c — 18 AWG	Unshielded	❖
	7952A	4pr — 24 AWG▼ 4c — 14 AWG	Unshielded	❖
23	9641	6pr — 26 AWG 10c — 26 AWG 1c — 24 AWG	Overall foil plus braid	❖

▼Solid conductors
◆Siamese version
* Armored
● Duofoil® shield
■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.
† Triad
◗ Quad
❖ For information on this part number, please call us at 1.800.ANIXTER

Multiconductor and Paired Cable

Partially Shielded Cables (Combination Unshielded and Shielded Conductors)

No. of Conductors	Part No.	Conductor/Gage Description	Shielding	Page
25 AWG				
4	B8434	1pr — 25 AWG	Beldfoil®	3.62
		1pr — 25 AWG	Unshielded plus overall foil shield	
22 AWG				
3	B8734	1c — 22 AWG	Braid	3.36
		2c — 22 AWG	Unshielded	
	9685	1pr — 22 AWG	Beldfoil	❖
		1c — 22 AWG	Unshielded	
4	8732	1pr — 22 AWG	Braid	❖
		1pr — 22 AWG	Unshielded	
	8730	1pr — 22 AWG	Beldfoil	❖
		1pr — 22 AWG	Unshielded	
	8724	1pr — 22 AWG	Beldfoil	❖
		1pr — 22 AWG	Unshielded	
5	8788	3c — 22 AWG	Individual Beldfoil	❖
		2c — 22 AWG	Unshielded	
12	9689	2pr — 22 AWG	Individual Beldfoil plus overall braid	❖
		4pr — 22 AWG	Unshielded	
	82689	2pr — 22 AWG	Individual Beldfoil plus overall braid	❖
		4pr — 22 AWG	Unshielded	
20 AWG				
3	B8763	1pr — 20 AWG	Beldfoil	3.63
		1c — 20 AWG	Unshielded	
4	B8722	1pr — 20 AWG	Beldfoil	3.63
		1pr — 20 AWG	Unshielded	

▼ Solid conductors
◆ Siamese version
* Armored
● Duofoil® shield
■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.
† Triad
◗ Quad
❖ For information on this part number, please call us at 1.800.ANIXTER

Multiconductor Nonplenum Unshielded

150 V Audio, Control and Instrumentation Cables

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded (7x30) tinned copper, conductors cabled
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. STANDARDS: UL AWM Style 2576, NEC: CMG
5. RATINGS: 150 V, 80°C

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8443	3	Black, Red, Green	18	0.010	0.032	0.172
B8444	4	See Chart 1	23	0.010	0.032	0.185
B8445	5	See Chart 1	26	0.010	0.032	0.194
B9430	7	See Chart 1	34	0.010	0.032	0.214
B9421	8	See Chart 1	38	0.010	0.032	0.229
B9423	9	See Chart 1	43	0.010	0.032	0.244
B8456	10	See Chart 1	46	0.010	0.032	0.264
B8457	12	See Chart 1	52	0.010	0.032	0.272
B8458	15	See Chart 1	72	0.010	0.040	0.315
B9431	20	See Chart 2R	87	0.010	0.040	0.345
B8459	25	See Chart 2R	109	0.010	0.040	0.387
B9432	30	See Chart 2R	124	0.010	0.040	0.400
B9433	40	See Chart 2R	161	0.010	0.040	0.455
B9434	50	See Chart 2R	206	0.010	0.045	0.500

300 V Audio, Control and Instrumentation Cables

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, conductors cabled
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. STANDARDS: UL AWM, NEC: CMG
5. RATINGS: 300 V

22 AWG (7X30) 60°C

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8442	2	Black, Red	15	0.015	0.025	0.170

20 AWG (7X28) AWM STYLE 2464 80°C

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B9444	4	See Chart 1	33	0.013	0.032	0.217
B9445	5	See Chart 1	40	0.013	0.032	0.239
B9439	7	See Chart 1	53	0.013	0.032	0.260
B9455	9	See Chart 1	67	0.013	0.035	0.317
B9457	12	See Chart 1	88	0.013	0.035	0.338
B9458	15	See Chart 2R	118	0.013	0.040	0.389

18 AWG (19X30) AWM STYLE 2598 60°C

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8489	4	See Chart 1	48	0.017	0.032	0.257
B8465	5	See Chart 1	60	0.017	0.033	0.282
B8467	7	See Chart 1	79	0.017	0.037	0.314
B8469	9	See Chart 1	105	0.017	0.037	0.364
B8466	12	See Chart 1	131	0.017	0.040	0.412
B8468	15	See Chart 2R	175	0.017	0.045	0.500
B8619	19	See Chart 2R	198	0.017	0.045	0.490
B9626	25	See Chart 2R	277	0.017	0.060	0.612

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

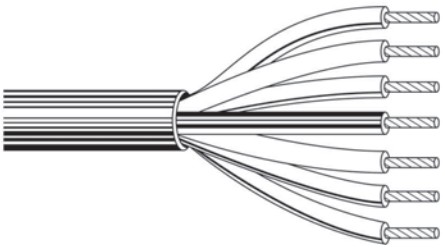
Multiconductor Nonplenum Unshielded

600 V Audio, Control and Instrumentation Cables

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, conductors cabled
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. STANDARDS: C(UL), FT4, VW-1
5. RATINGS: 600 V, 80°C



16 AWG (19X29)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8620	4	See Chart 2R	88	0.031	0.042	0.376
B9620	5	See Chart 2	109	0.031	0.042	0.411
B8621	7	See Chart 2R	143	0.031	0.045	0.458
B9721	8	See Chart 2R	269	0.031	0.045	0.496
B9621	9	See Chart 2R	181	0.031	0.045	0.533
B8622	12	See Chart 2R	251	0.031	0.060	0.627
B8623	15	See Chart 2R	314	0.031	0.060	0.694
B8624	19	See Chart 2R	361	0.031	0.065	0.740
B9622	25	See Chart 2R	480	0.031	0.065	0.879

14 AWG (19X27)

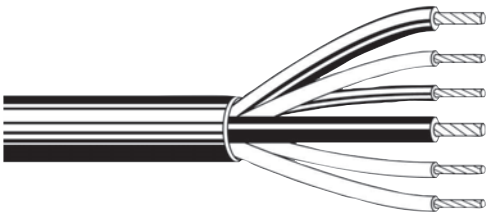
Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8627	4	See Chart 2	149	0.045	0.045	0.490
B9623	5	See Chart 2	197	0.045	0.060	0.573
B8628	7	See Chart 2	255	0.045	0.060	0.623
B8629	12	See Chart 2	454	0.045	0.065	0.824

22 and 18 AWG Audio, Control and Instrumentation Cable

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 and 18 AWG stranded (7x30 & 16x30) tinned copper, conductors cabled
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. STANDARDS: UL AWM Style 2576, NEC: CMG
5. RATINGS: 150 V rms, 80°C



Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8446	6: 4 Unshld 22 (7x30)/ 2 Unshld 18 (16x30)	Red, Green, Brown, Blue, Black, White	43	0.010/0.019	0.032	0.236	30

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

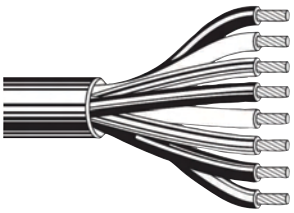
Multiconductor Nonplenum Unshielded

150 V Antenna Rotor Cable

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 2x18 AWG and 6x22 AWG stranded (16x30 and 7x30) tinned copper, conductors cabled
2. INSULATION: PVC
3. COLOR CODE: 18 AWG - Black, White; 16 AWG - Red, Green, Brown, Blue, Yellow, Orange
4. JACKET: Chrome PVC
5. STANDARDS: UL AWM Style 2464, VW-1, NEC: CMG
6. RATINGS: 80°C, 150 V



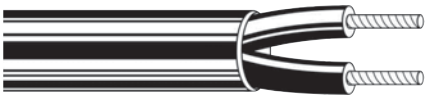
Anixter No.	No. of Conductors	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8448	8	50	0.019/0.010	0.032	0.259

Duplex Primary Wire

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded bare copper, conductors parallel
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. STANDARDS: VW-1
5. RATINGS: 300 V, 75°C



16 AWG (19X29)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8677	2	Brown, Red	37	0.024	0.022	0.149 x 0.254

14 AWG (19X27)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8675	2	Brown, Red	47	0.023	0.023	0.168 x 0.290

12 AWG (19X25)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8673	2	Brown, Red	65	0.026	0.022	0.186 x 0.328

10 AWG (19X23)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8678	2	Brown, Red	102	0.031	0.025	0.225 x 0.400

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Multiconductor Nonplenum Unshielded

High-temperature Cables

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Stranded tinned copper, conductors cabled
2. INSULATION: ETFE
3. JACKET: Clear ETFE
4. STANDARDS: VW-1
5. RATINGS: 300 V rms, 150°C

20 AWG (7X28)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B85220	2	Black, Red	23	0.015	0.020	0.185

16 AWG (19X29)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B85221	2	Black, Red	34	0.015	0.019	0.211
B85102	2	See Chart 2	32	0.015	0.019	0.211
B85103	3	See Chart 2	43	0.015	0.019	0.223
B85109	9	See Chart 2	119	0.015	0.024	0.354

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

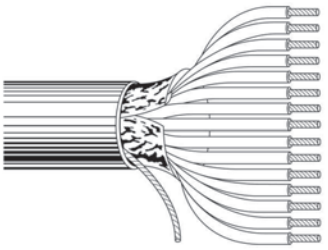
Multiconductor Nonplenum Shielded

Overall Beldfoil Shield for EIA RS-232 Applications

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper
2. INSULATION: Semi-rigid PVC
3. SHIELDING: Overall Beldfoil (100%)
4. JACKET: Chrome PVC
5. STANDARDS: UL AWM Style 2464, NEC: CMG
6. RATINGS: 300 V, 80°C



24 AWG (7X32)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9533	3	See Chart 1	18	0.010	0.032	0.162	33
B9534	4	See Chart 1	22	0.010	0.032	0.184	33
B9535	5	See Chart 1	22	0.010	0.032	0.189	33
B9536	6	See Chart 1	29	0.010	0.032	0.209	33
B9537	7	See Chart 1	30	0.010	0.032	0.209	33
B9538	8	See Chart 1	34	0.010	0.032	0.224	33
B9539	9	See Chart 1	38	0.010	0.032	0.244	30
B9540	10	See Chart 1	36	0.010	0.032	0.244	30
B9541	15	See Chart 2R	56	0.010	0.032	0.284	30
B9542	20	See Chart 2R	69	0.010	0.032	0.314	30
B9543	25	See Chart 2R	86	0.010	0.032	0.339	30
B9544	30	See Chart 2R	102	0.010	0.040	0.380	30
B9545	40	See Chart 2R	130	0.010	0.040	0.430	30
B9546	50	See Chart 2R	168	0.010	0.045	0.490	30

18 AWG (19X30)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9418	4	Red, Green, Black, White	52	0.010	0.035	0.245	70

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

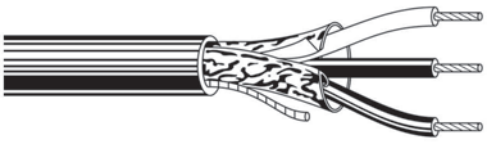
Multiconductor Nonplenum Shielded

Overall Beldfoil Shield - PE Insulation, PVC Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, conductors cabled
2. INSULATION: Polyethylene
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil (100%)
5. STANDARDS: UL AWM Style 2093 (22-18 AWG), 2107 (16 AWG), NEC: CM
6. RATINGS: 300 V, 60°C



22 AWG (7X30)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8771	3	Black, Red, Clear	24	0.016	0.033	0.199	23

20 AWG (7X28)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8772	3	Black, Red, Clear	32	0.016	0.033	0.218	27

18 AWG (16X30)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8770	3	Black, Red, Clear	40	0.018	0.033	0.246	24

16 AWG (19X29)

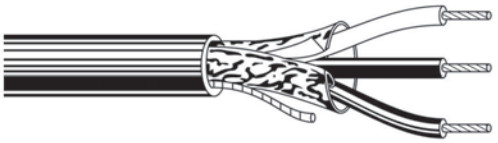
Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8618	3	Black, Red, Clear	66	0.031	0.031	0.327	26

Overall Beldfoil Shield - PP Insulation, PVC Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded tinned copper (7x30)
2. INSULATION: Polypropylene
3. JACKET: Brown PVC
4. SHIELDING: Overall Beldfoil shield (100%), 22 AWG stranded tinned copper drain
5. STANDARDS: NEC: CM
6. RATINGS: 300 V, 90°C



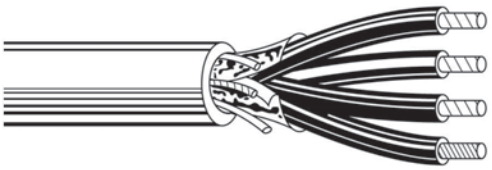
Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9770	3	Black, Red, White	17	0.008	0.020	0.145	32

Overall Beldfoil Shield - Multiple Drain Wires

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded (19x34) tinned copper, conductors cabled
2. INSULATION: Polyethylene
3. JACKET: White PVC
4. SHIELDING: Overall Beldfoil shield (100%), 23 AWG solid and 25 AWG stranded drain
5. STANDARDS: NEC: CM, CL3
6. RATINGS: 300 V, 75°C



Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8729	4	Black, Red, Green, Clear	47	0.016	0.051	0.257	22

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Multiconductor Nonplenum Shielded

70% Tinned Copper Braid Shield

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded (7x30) tinned copper, conductors cabled
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. SHIELDING: Tinned copper braid (70%)
5. STANDARDS: UL AWM Style 2095, NEC: CMG
6. RATINGS: 300 V, 80°C

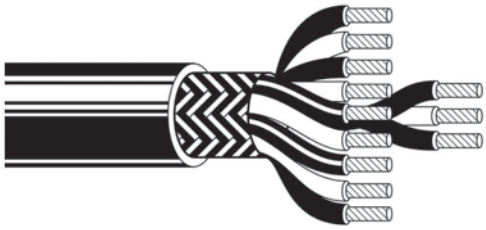
Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8735	3	Black, Red, White	27	0.015	0.025	0.202	34

85% Tinned Copper Braid Shield

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 20 AWG stranded (7x28) tinned copper
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. SHIELDING: Tinned copper braid (85%)
5. STANDARDS: UL AWM Style 2464, NEC: CMG
6. RATINGS: 300 V, 80°C



Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9260	6	See Chart 2	69	0.016	0.032	0.305	26
B9261	12	See Chart 2R	119	0.016	0.040	0.396	26

80% Tinned Copper Braid Shield Over One Conductor

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded (7x30) tinned copper, conductors cabled
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. SHIELDING: Tinned copper braid (80%) over one conductor, other conductors unshielded
5. STANDARDS: UL AWM Style 2785, NEC: CM
6. RATINGS: 300 V, 80°C

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8734	3	Black, Red, White	21	0.015	0.025	0.194	79

Nominal capacitance measured conductor to conductor and shield.

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

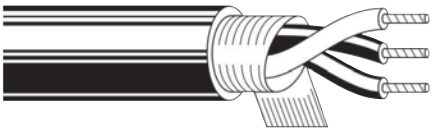
Multiconductor Nonplenum Shielded

Overall Tinned Copper Spiral Shield

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 18 AWG stranded (7x26) tinned copper, conductors cabled
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. SHIELDING: Tinned copper spiral wrap (80% coverage)
5. STANDARDS: VW-1
6. RATINGS: 450 V rms, 80°C



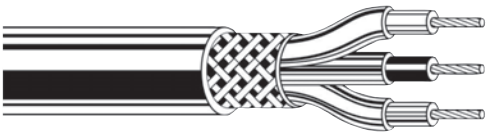
Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8791	3	Black, Red, White	46	0.022	0.028	0.260	47

Overall Braid Shield - MIL-W-16878 (Type B) Conductors

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, conductors cabled
2. INSULATION: PVC/nylon
3. JACKET: White PVC
4. SHIELDING: Tinned copper braid shield (90%)
5. STANDARDS: VW-1. Type B now M16878/1 per MIL-DTL-16878G
6. RATINGS: 600 V, 105°C



22 AWG (19X34)

Single conductor capacitance measured conductor to shield, multiconductor measured between conductors.

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9965	1	White	10	0.010	0.010	0.100	100
B9966	2	White, Black	19	0.010	0.020	0.176	52
B9967	3	White, Black, Red	24	0.010	0.020	0.184	45
B9968	4	White, Black, Red, Green	29	0.010	0.020	0.200	42

20 AWG (19X32)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9961	1	White	9	0.011	0.010	0.109	103
B9962	2	White, Black	22	0.011	0.020	0.192	53
B9963	3	White, Black, Red	29	0.011	0.025	0.210	49
B9964	4	White, Black, Red, Green	39	0.011	0.025	0.226	40

16 AWG (19X29)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9951	1	White	20	0.012	0.016	0.143	138
B9952	2	White, Black	42	0.012	0.025	0.250	57
B9953	3	White, Black, Red	56	0.012	0.025	0.264	58
B9954	4	White, Black, Red, Green	73	0.012	0.027	0.291	49

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

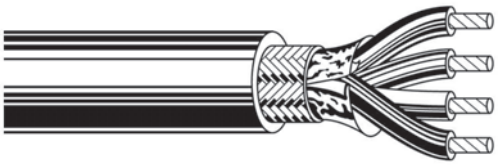
Multiconductor Nonplenum Shielded

Overall Foil/Braid Shield for RS-232

BELDEN

SPECIFICATIONS

1. CONDUCTOR: 24 AWG stranded (7x32) tinned copper
2. SHIELDING: Overall Beldfoil (100%) plus tinned copper braid shield (65%)
3. INSULATION: Semi-rigid PVC
4. JACKET: Chrome PVC
5. STANDARDS: UL AWM Style 2464, NEC: CMG
6. RATINGS: 300 V, 80°C



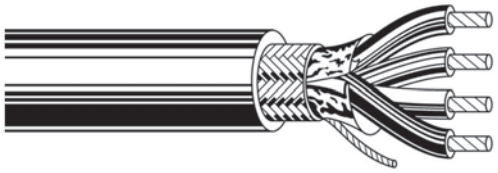
Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9608	3	See Chart 1	23	0.190	35
B9609	4	See Chart 1	26	0.200	35
B9610	5	See Chart 1	32	0.215	35
B9611	6	See Chart 1	34	0.225	30
B9612	7	See Chart 1	38	0.225	30
B9613	8	See Chart 1	41	0.240	30
B9614	9	See Chart 1	44	0.253	30
B9615	10	See Chart 1	50	0.270	30
B9616	15	See Chart 2R	63	0.300	30
B9617	25	See Chart 2R	100	0.370	30
B9618	37	See Chart 2R	135	0.411	30
B9619	50	See Chart 2R	182	0.485	30

Overall Foil/Braid Shield for RS-232 - Low Capacitance

BELDEN

SPECIFICATIONS

1. CONDUCTOR: 24 AWG stranded (7x32) tinned copper
2. INSULATION: Datalene
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil (100%) plus tinned copper braid shield (65%), drain
5. STANDARDS: UL AWM Style 2919, NEC: CM
6. RATINGS: 30 V, 80°C



Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nom. Vel of Prop.	Nominal Capacitance (pF/ft.)
B9925	3	See Chart 1	24	0.215	78%	12
B9927	4	See Chart 1	32	0.230	78%	12
B9929	5	See Chart 1	36	0.246	78%	12
B9931	6	See Chart 1	39	0.265	78%	12
B9932	7	See Chart 1	41	0.265	78%	12
B9933	8	See Chart 1	46	0.280	78%	12
B9934	9	See Chart 1	48	0.300	78%	12
B9935	10	See Chart 1	53	0.306	78%	12
B9936	15	See Chart 2R	68	0.350	78%	12
B9937	25	See Chart 2R	108	0.445	78%	12
B9938	37	See Chart 2R	139	0.500	78%	12

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

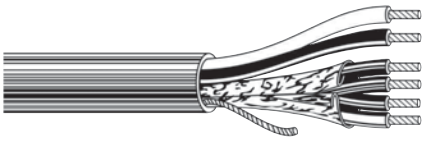
Multiconductor Nonplenum Shielded

4 Conductors Under Foil Plus 2 Conductors Unshielded

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. SHIELDING: (4) conductors cabled under 100% Beldfoil, (2) conductors unshielded, 22 AWG stranded tinned copper drain
5. STANDARDS: NEC CM
6. RATINGS: 300 V rms, 90°C



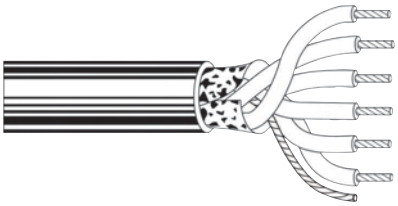
Anixter No.	No. of Conductors	Color Code	Insulation Thickness (in.)	Jacket Thickness (in.)	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B8786	2C+4C	Blue Quad, Blue, White	0.015	0.028	33	0.236

Overall Foil Shield - For Molex SEMMCONN and TE Connectivity - AMP SDL Connectors

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 26 AWG stranded (7x34) tinned copper conductors
2. INSULATION: PVC
3. JACKET: Black PVC
4. SHIELDING: Duofoil (100%), 26 AWG stranded tinned copper drain
5. STANDARDS: UL AWM Style 2464, VW-1, NEC: CL2X
6. RATINGS: 300 V, 80°C



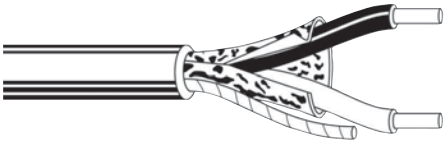
Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B1211A	4	White, Yellow, Orange, Green	23	0.015	0.036	0.195
B1212A	6	Red, Blue, Green, Orange, Yellow, White	30	0.015	0.037	0.220
B1213A	8	Black, Purple, Red, Blue, Green, Orange, Yellow, White	24	0.015	0.039	0.239
B1214A	16	White & Red, White & Brown, White & Black, Black, Red, Brown, Purple, Blue, Green, Gray, Aqua, Tan, Pink, Orange, White, Yellow	57	0.015	0.035	0.301

Overall Foil Shield Direct Burial Cables

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 20 AWG solid tinned copper, conductors cabled
2. INSULATION: Polypropylene
3. JACKET: Black HDPE
4. SHIELDING: Overall Beldfoil shield (100%), 22 AWG solid tinned copper drain
5. RATINGS: 350 V, 80°C



Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9802	2	White, Black	18	0.013	0.035	0.190	32
B9803	3	White, Black, Red	23	0.013	0.035	0.205	23
B9890	10	See Chart 1	65	0.013	0.040	0.310	23
B9894	15	See Chart 2	96	0.013	0.045	0.390	23

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Multiconductor Nonplenum Shielded

High Temperature - FEP Insulation, Silicone Rubber Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper
2. INSULATION: FEP
3. JACKET: Silicone rubber
4. SHIELDING: Special Beldfoil shield (100%) and noise reducing conductive nylon tape, stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 4516 (150°C, 600 V), passes VW-1 flame test
6. RATINGS: -70°C to 150°C, jacket working voltage 2,000 V DC - shield to ground

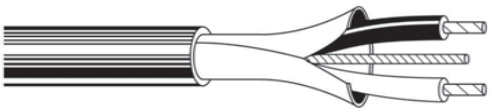
22 AWG (7X30), RED JACKET - 22 AWG DRAIN WIRE

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83394	2	Black, White	26	0.015	0.030	0.199	22
B83395	3	Black, Red, White	28	0.015	0.031	0.208	22
B83396	4	Black, White, Red, Green	32	0.015	0.030	0.217	22

20 AWG (7X28), YELLOW JACKET - 20 AWG DRAIN WIRE

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83393	2	Black, Red	34	0.020	0.037	0.242	22

High Temperature - ETFE Insulation and Jacket



BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper
2. INSULATION: ETFE
3. JACKET: Clear ETFE
4. SHIELDING: Overall Beldfoil shield (100%), drain wire
5. STANDARDS: VW-1
6. RATINGS: 300 V rms, 150°C

20 AWG (7X28)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B85230	2	Black, Red	29	0.015	0.020	0.182	31
B85240	3	Black, Red, Green	30	0.015	0.020	0.193	27

16 AWG (19X29)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B85231	2	Black, Red	38	0.020	0.020	0.210	44
B85241	3	Black, Red, Green	49	0.020	0.020	0.223	34

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

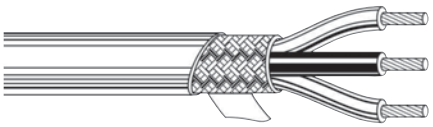
Multiconductor Nonplenum Shielded

High Temperature - MIL-W-16878 (Type E) Conductors

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Stranded silver-plated copper conductors, cabled and color coded
2. INSULATION: Extruded TFE
3. JACKET: White TFE tape-wrapped
4. SHIELDING: Silver-plated copper braid shield (85%)
5. STANDARDS: VW-1. Complies with MIL-W-16878/4 Type E (replaced by NEMA HP3) except for stranding of sizes 24-16 AWG
6. RATINGS: 600 V rms, -65°C to 200°C



26 AWG (7X34)

Nominal capacitance for single conductors measured between conductor and shield, multiconductor measured between conductors.

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83303E	1	White	6	0.010	0.010	0.076	44.6
B83317E	2	White, Black	14	0.010	0.011	0.121	20.8
B83332E	3	White, Black, Red	17	0.010	0.011	0.127	18.8
B83347E	4	White, Black, Red, Green	19	0.010	0.011	0.137	18.5

24 AWG (19X36)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83304E	1	White	8	0.010	0.010	0.085	46
B83318E	2	White, Black	16	0.010	0.011	0.131	26.5
B83333E	3	White, Black, Red	19	0.010	0.011	0.137	21.9
B83348E	4	White, Black, Red, Green	23	0.010	0.011	0.149	21.9

22 AWG (19X34)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83305E	1	White	9	0.010	0.010	0.091	57.9
B83319E	2	White, Black	19	0.010	0.011	0.143	29.9
B83334E	3	White, Black, Red	24	0.010	0.011	0.150	27.4
B83349E	4	White, Black, Red, Green	28	0.010	0.011	0.163	27.4

20 AWG (19X32)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83306E	1	White	14	0.010	0.010	0.099	69
B83320E	2	White, Black	23	0.010	0.011	0.159	31.7
B83335E	3	White, Black, Red	30	0.010	0.011	0.168	31.7
B83350E	4	White, Black, Red, Green	37	0.010	0.011	0.183	31.7

18 AWG (19X30)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83307E	1	White	17	0.011	0.011	0.109	71.5
B83321E	2	White, Black	29	0.011	0.011	0.179	31
B83336E	3	White, Black, Red	39	0.011	0.011	0.189	31
B83351E	4	White, Black, Red, Green	51	0.011	0.011	0.207	31

16 AWG (19X29)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83308E	1	White	20	0.010	0.011	0.120	72.5
B83322E	2	White, Black	35	0.012	0.011	0.197	36
B83337E	3	White, Black, Red	49	0.012	0.011	0.209	30.7
B83352E	4	White, Black, Red, Green	61	0.012	0.011	0.229	30.2

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

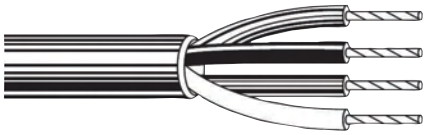
Multiconductor Plenum Unshielded

FEP Insulation and Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper
2. INSULATION: FEP
3. JACKET: Red FEP
4. STANDARDS: NEC: CMP
5. RATINGS: 300 V rms
6. USE: Suitable for outdoor and direct burial applications



22 AWG (7X30)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B88442	2	Black & Red	8.0	0.006	0.012	0.102
B88444	4	Black, White, Red, Green	15	0.006	0.010	0.121

18 AWG (19X30)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B88489	4	Black, White, Red, Green	29	0.007	0.009	0.161

FEP Insulation, Flamarrest Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper
2. INSULATION: FEP
3. JACKET: Red FEP
4. STANDARDS: NEC: CMP
5. RATINGS: 300 V

22 AWG (7X30)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B82442	2	Black & Red	8.0	0.006	0.015	0.113
B82444	4	Black, White, Red, Green	15	0.006	0.015	0.134

18 AWG (19X30)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B82489	4	Black, White, Red, Green	29	0.007	0.014	0.170

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

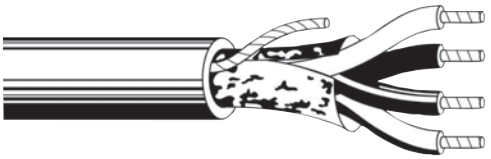
Multiconductor Plenum Shielded

Overall Beldfoil Shield

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 18 AWG stranded tinned copper, conductors cabled
2. INSULATION: FEP
3. JACKET: Red FEP or Natural Flamarrest
4. SHIELDING: Overall Beldfoil shield (100%), 20 AWG stranded tinned copper drain wire
5. STANDARDS: NEC: CMP
6. RATINGS: 300 V, -70°C to 200°C



RED FEP JACKET - SUITABLE FOR OUTDOOR AND DIRECT BURIAL APPLICATIONS

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B88770	3	Black, Red, White	32	0.007	0.014	0.161	54
B89418	4	Black, White, Red, Green	36	0.007	0.014	0.177	30

NATURAL COLORED FLAMARREST JACKET - SUITABLE FOR OUTDOOR APPLICATIONS

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B82418	4	Black, White, Red, Green	38	0.007	0.014	0.176	30

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

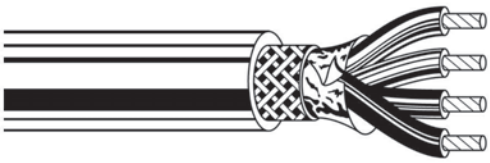
Multiconductor Plenum Shielded

Overall Foil and Braid Shield

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper
2. INSULATION: FEP
3. JACKET TYPE: Red FEP
4. SHIELDING: Overall Beldfoil (100% coverage) + tinned copper braid shield (85% coverage)
5. STANDARDS: NEC: CMP
6. USE: Suitable for outdoor and direct burial applications
7. RATINGS: 300 V rms, -70°C to 200°C



24 AWG (7X32)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83503	3	See Chart 2	16	0.006	0.014	0.135	20
B83504	4	See Chart 2	20	0.006	0.014	0.144	20
B83506	6	See Chart 2	26	0.006	0.014	0.165	20
B83509	9	See Chart 2	38	0.006	0.014	0.188	20
B83512	12	See Chart 2	45	0.006	0.014	0.207	20
B83515	15	See Chart 2	53	0.006	0.014	0.227	20

22 AWG (7X30)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83552	2	See Chart 2	16	0.006	0.014	0.141	23
B83553	3	See Chart 2	20	0.006	0.014	0.148	23
B83554	4	See Chart 2	25	0.006	0.014	0.159	23
B83556	6	See Chart 2	36	0.006	0.014	0.183	23
B83559	9	See Chart 2	50	0.006	0.014	0.209	23
B83562	12	See Chart 2	60	0.006	0.015	0.234	23
B83569	19	See Chart 2	85	0.006	0.015	0.269	23

20 AWG (7X28)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83602	2	See Chart 2	22	0.006	0.014	0.157	26
B83604	4	See Chart 2	32	0.006	0.014	0.178	26
B83606	6	See Chart 2	47	0.006	0.014	0.207	26
B83609	9	See Chart 2	63	0.006	0.014	0.238	26
B83612	12	See Chart 2	67	0.006	0.014	0.265	26

18 AWG (19X30)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83652	2	See Chart 2	27	0.007	0.014	0.175	33
B83653	3	See Chart 2	39	0.007	0.014	0.184	33
B83654	4	See Chart 2	46	0.007	0.014	0.199	33
B83656	6	See Chart 2	62	0.007	0.014	0.234	33
B83659	9	See Chart 2	88	0.007	0.015	0.293	33
B83662	12	See Chart 2	109	0.007	0.015	0.308	33

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Multiconductor Plenum Shielded

16 AWG (19X29)

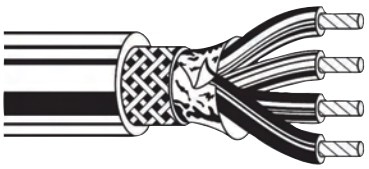
Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83702	2	See Chart 2	40	0.007	0.014	0.196	35
B83703	3	See Chart 2	50	0.007	0.014	0.206	35
B83704	4	See Chart 2	62	0.007	0.014	0.223	35
B83706	6	See Chart 2	87	0.007	0.014	0.265	35
B83709	9	See Chart 2	120	0.007	0.014	0.307	35
B83712	12	See Chart 2	153	0.007	0.014	0.344	35
B83715	15	See Chart 2	190	0.007	0.014	0.407	35
B83719	19	See Chart 2	227	0.007	0.014	0.403	35

Fire Alarm - Power Limited Fire Protective

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, conductors cabled
2. INSULATION: FEP
3. JACKET: Red FEP
4. SHIELDING: Overall Beldfoil (100% coverage) and tinned copper braid (85% coverage)
5. STANDARDS: UL Style 2464 (80°C, 300 V) and 1424 (105°C, no voltage rating), NEC: FPLP, CMP. Passes IEEE 1202 flame test
6. RATINGS: 300 V, -70°C to 200°C



14 AWG (7X22)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83752	2	See Chart 2	60	0.016	0.015	0.267	30
B83753	3	See Chart 2	82	0.016	0.015	0.284	30
B83754	4	See Chart 2	102	0.016	0.015	0.311	30
B83756	6	See Chart 2	150	0.016	0.017	0.376	30

12 AWG (7X20)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83802	2	See Chart 2	80	0.016	0.015	0.303	32
B83803	3	See Chart 2	111	0.016	0.015	0.323	32
B83804	4	See Chart 2	147	0.016	0.017	0.359	32
B83806	6	See Chart 2	213	0.016	0.017	0.430	32

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Multipair Nonplenum Unshielded

Telephone Cables

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG solid tinned copper, twisted pairs
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. STANDARDS: UL AWM style 2576, NEC: CMG
5. RATINGS: 150 V, 80°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
CM-00224TAG-B	2	See Chart 4	18	0.010	0.032	0.199
CM-00624TAG-B	6	See Chart 4	45	0.010	0.032	0.289
CM-01024TAG-B	10	See Chart 4	63	0.010	0.035	0.310
CM-02524TAG-B	25	See Chart 4	144	0.010	0.040	0.480

150 V - Solid Tinned Copper Conductors

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG solid tinned copper, twisted pairs
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. STANDARDS: UL AWM Style 2576, NEC: CMG
5. RATINGS: -20°C to 80°C, 150 V (AWM), 300 V (CMG)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8740	1	See Chart 3	14	0.010	0.032	0.156
B8741	2	See Chart 3	27	0.010	0.032	0.230
B8742	3	See Chart 3	33	0.010	0.032	0.242
B8743	6	See Chart 3	53	0.010	0.032	0.293
B8744	9	See Chart 3	79	0.010	0.035	0.350
B8757	4	See Chart 3	40	0.010	0.250	0.032
B9160	8	See Chart 3	71	0.010	0.035	0.323

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Multipair Nonplenum Unshielded

150 V - Stranded Tinned Copper Conductors

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded tinned copper, twisted pairs
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. STANDARDS: UL AWM Style 2576, NEC: CMG
5. RATINGS: -20°C to 80°C, 150 V (AWM), 300 V (CMG)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B9744	2	See Chart 3	27	0.010	0.032	0.233
B9745	3	See Chart 3	36	0.010	0.032	0.245
B9746	4	See Chart 3	42	0.010	0.032	0.281
B8747	6	See Chart 3	59	0.010	0.035	0.320
B8748	9	See Chart 3	84	0.010	0.037	0.389
B9747	12	See Chart 3	109	0.010	0.040	0.425
B8749	15	See Chart 3	124	0.010	0.040	0.440
B8750	27	See Chart 3	221	0.010	0.045	0.575

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Multipair Nonplenum Unshielded

300 V - Stranded Tinned Copper Conductors

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pairs
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. STANDARDS: UL AWM Style 2464 (multiconductor 20-18 AWG), Style 2598 (16 AWG), NEC: CMG
5. RATINGS: 300 V, 80°C

20 AWG (7X28)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8205	1	Black, Red	18	0.013	0.025	0.180
B9750	3	See Chart 3	50	0.013	0.035	0.299
B9751	6	See Chart 3	89	0.013	0.035	0.366
B9752	9	See Chart 3	125	0.013	0.035	0.429
B9755	15	See Chart 3	194	0.013	0.040	0.545

18 AWG (7X26)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8461	1	Black, White	27	0.022	0.028	0.234

18 AWG (16X30)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B9740	1	See Chart 3	24	0.014	0.032	0.210
B9156	2	See Chart 3	51	0.014	0.035	0.333
B8690	3	See Chart 3	65	0.014	0.032	0.347
B9157	4	See Chart 3	83	0.014	0.032	0.381
B9159	5	See Chart 3	99	0.014	0.032	0.391
B8691	6	See Chart 3	115	0.014	0.032	0.433
B9161	8	See Chart 3	152	0.014	0.037	0.485
B8692	9	See Chart 3	170	0.014	0.040	0.524
B9741	12	See Chart 3	220	0.014	0.046	0.600
B9742	15	See Chart 3	291	0.014	0.051	0.677
B9743	19	See Chart 3	355	0.014	0.055	0.721

16 AWG (19X29)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8471	1	Black, White	43	0.023	0.032	0.274

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Multipair Nonplenum Unshielded

600 V - Stranded Tinned Copper Conductors

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pairs
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. STANDARDS: UL AWM Style 2587, Class 3 (CL3) and Class 3 Riser (CL3R) - see below
5. RATINGS: 600 V (AWM), 300 V (CL3), 90°C

14 AWG (42X30)

Anixter No.	NEC Rating	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8473	CL3	1	Black, White	58	0.031	0.032	0.340

12 AWG (65X30)

Anixter No.	NEC Rating	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8477	CL3R	1	Black, White	85	0.032	0.035	0.386

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

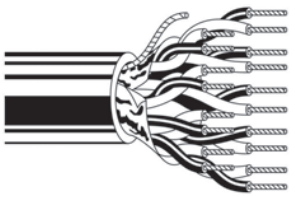
Multipair Nonplenum Shielded

High Temperature - ETFE Insulation and Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 20 AWG stranded (7X32) tinned copper conductors, pairs cabled together
2. INSULATION: ETFE
3. JACKET: Clear ETFE
4. SHIELDING: Overall Beldfoil shield (100%), drain wire
5. STANDARDS: VW-1
6. RATINGS: 300 V, 150°C



Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B85164	4	See Chart 3	71	0.015	0.025	0.344	23
B85168	8	See Chart 3	126	0.015	0.025	0.439	23

Overall Beldfoil for RS-232 Applications

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper, twisted pairs
2. INSULATION: Semi-rigid PVC
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil shield (100%), 24 AWG stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 2464, NEC: CMG
6. RATINGS: 300 V, 80°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nominal Imped. (Ohms)	Nom. Vel of Prop.	Nominal Capacitance (pF/ft.)
B9501	1	See Chart 3	14	0.156	75	60%	40
B9502	2	See Chart 3	30	0.222	75	60%	30
B9503	3	See Chart 3	30	0.232	75	60%	30
B9504	4	See Chart 3	36	0.265	75	60%	30
B9505	5	See Chart 3	43	0.289	75	60%	30
B9506	6	See Chart 3	47	0.289	75	60%	30
B9507	7	See Chart 3	51	0.294	75	60%	30
B9508	8	See Chart 3	60	0.324	75	60%	30
B9509	9	See Chart 3	67	0.334	75	60%	30
B9510	10	See Chart 3	74	0.368	75	60%	30
B9515	15	See Chart 3	102	0.417	75	60%	30
B9519	19	See Chart 3	122	0.448	75	60%	30
B9525	25	See Chart 3	155	0.503	75	60%	30
B9550	50	See Chart 3	292	0.708	75	60%	30

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Multipair Nonplenum Shielded

Low Capacitance for RS-232/422 - Polyethylene Insulation

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper conductors, twisted pairs
2. INSULATION: Datalene
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil shield (100%), 24 AWG stranded tinned copper drain
5. STANDARDS: NEC: CM
6. RATINGS: UL AWM Style 2919, 30 V, 80°C
7. JACKETING: Chrome PVC

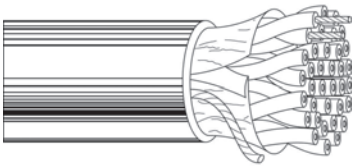
Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nominal Imped. (Ohms)	Nom. Vel of Prop.	Nominal Capacitance (pF/ft.)
B9680	3	See Chart 5	38	0.282	100	66%	15.5
B9681	4	See Chart 5	45	0.307	100	66%	15.5
B9682	6	See Chart 5	56	0.342	100	66%	15.5
B9683	9	See Chart 5	79	0.397	100	66%	15.5
B9684	12 & 1/2	See Chart 5	97	0.445	100	66%	15.5

Low Capacitance for RS-232/422 - Datalene Insulation

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper conductors, twisted pairs
2. INSULATION: Datalene
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil shield (100%), 24 AWG stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 2919, NEC: CM
6. RATINGS: 30 V (AWM), 300 V (CM), 80°C



Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nominal Imped. (Ohms)	Nom. Vel of Prop.	Nominal Capacitance (pF/ft.)
B1419A	2	See Chart 5	30	0.248	100	78%	13
B1420A	3	See Chart 5	34	0.261	100	78%	13
B1421A	4	See Chart 5	37	0.280	100	78%	13
B1422A	5	See Chart 5	43	0.294	100	78%	13
B1423A	6	See Chart 5	48	0.319	100	78%	13
B1424A	12 & 1/2	See Chart 5	85	0.418	100	78%	13
B1425A	15	See Chart 5	99	0.473	100	78%	13

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

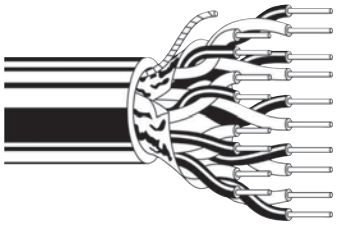
Multipair Nonplenum Shielded

Overall Beldfoil Shield - PVC Insulation, Jacket - Solid Conductors

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG solid tinned copper, twisted pairs
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil shield (100%), 22 AWG stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 2464, NEC: CMG
6. RATINGS: 300 V, 80°C



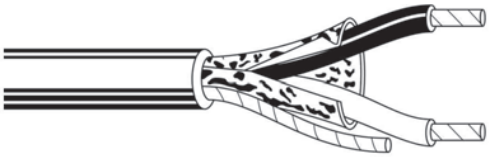
Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nominal Imped. (Ohms)	Nom. Vel of Prop.	Nominal Capacitance (pF/ft.)
B9302	2	See Chart 3	31	0.013	0.032	0.244	35
B9305	4	See Chart 3	45	0.013	0.032	0.265	35
B9306	6	See Chart 3	62	0.013	0.032	0.315	35
B9309	9	See Chart 3	86	0.013	0.033	0.363	35
B9315	15	See Chart 3	133	0.013	0.037	0.449	35
B9319	19	See Chart 3	165	0.013	0.040	0.495	35
B9327	27	See Chart 3	230	0.013	0.045	0.615	35

Overall Beldfoil Shield - PVC Insulation, Jacket - Stranded Conductors

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pair
2. INSULATION: PVC
3. JACKET: PVC (see tables for colors)
4. SHIELDING: Overall Beldfoil shield (100%), stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 2464, NEC: CMG
6. RATINGS: 300 V, 80°C



22 AWG (19X34), CHROME JACKET

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9462	1	Black, Red	21	0.013	0.035	0.186	50

20 AWG (7X28), BEIGE JACKET

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9154	1	Black, Red	23	0.014	0.031	0.198	60

Overall Beldfoil Shield - Polypropylene Insulation, PVC Jacket - Solid Conductors

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG solid tinned copper, twisted pair
2. INSULATION: Polypropylene
3. JACKET: Black PVC
4. SHIELDING: Overall Beldfoil shield (100% coverage), 22 AWG stranded tinned copper drain wire
5. STANDARDS: NEC: CM
6. RATINGS: 300 V rms, 75°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8450	1	Black & Red	13	0.007	0.018	0.118	40

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

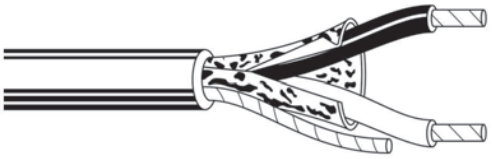
Multipair Nonplenum Shielded

Overall Beldfoil Shield - Polyethylene Insulation, PVC Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pair
2. INSULATION: Polyethylene
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil shield (100%), tinned copper drain wire
5. STANDARDS: UL AWM Style 2092, NEC: CM
6. RATINGS: 300 V, 60°C



24 AWG (7X32), 24 AWG DRAIN

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8641	1	Black, Clear	14	0.016	0.025	0.168	22

22 AWG (7X30), 22 AWG DRAIN

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8761	1	Black, Clear	18	0.016	0.025	0.175	24

20 AWG (7X28), 20 AWG DRAIN

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8762	1	Black, Clear	23	0.016	0.028	0.204	27

18 AWG (16X30), 20 AWG DRAIN

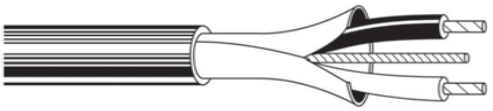
Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8760	1	Black, Clear	26	0.019	0.028	0.222	24

Overall Beldfoil Shield - PE Insulation, PVC Jacket (Jacket and Shield Bonded)

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pair
2. INSULATION: Polyethylene
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil shield (100%) bonded to jacket, stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 2092, NEC: CMG
6. RATINGS: 300 V, 60°C



22 AWG (7X30), 22 AWG DRAIN

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9461	1	Black, Clear	21	0.016	0.026	0.180	24

20 AWG (7X28), 20 AWG DRAIN

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9464	1	Black, Clear	32	0.016	0.035	0.214	27

18 AWG (16X30), 20 AWG DRAIN

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9460	1	Black, Clear	36	0.019	0.030	0.230	24

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

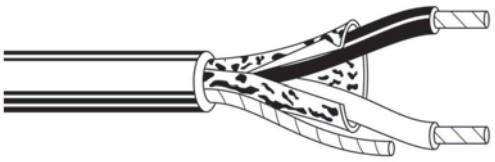
Multipair Nonplenum Shielded

Overall Beldfoil Shield - PE Insulation, PVC Jacket - 600 V

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pairs
2. INSULATION: Polyethylene
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil (100% coverage), stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 20253, NEC: CM (8719), CL2 (8720, 8218)
6. RATINGS: 600 V (AWM), 80°C



16 AWG (19X29), 18 AWG STRANDED TINNED COPPER DRAIN

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8719	1	Black, Clear	50	0.032	0.032	0.313	23

14 AWG (19X27), 16 AWG STRANDED TINNED COPPER DRAIN

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8720	1	Black, Clear	71	0.032	0.035	0.355	24

12 AWG (19X25), 14 AWG STRANDED TINNED COPPER DRAIN

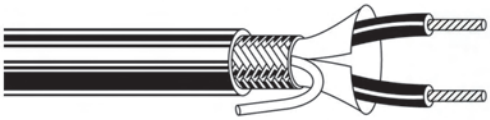
Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8718	1	Black, Clear	100	0.037	0.040	0.400	25

Overall Braid Shield with Polyester Tape

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pair
2. INSULATION: PVC, polyester separator tape
3. JACKET: Black PVC
4. SHIELDING: Tinned copper braid shield (86%)
5. STANDARDS: UL AWM Style 2095, NEC: CMG
6. RATINGS: 300 V, 80°C



22 AWG (7X30), 22 AWG DRAIN WIRE

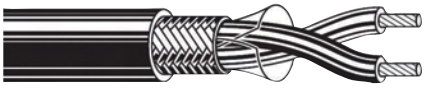
Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8441	1	Black & Red	27	0.015	0.025	0.194	49

Overall Braid Shield with Rubber Insulation

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 18 AWG stranded (16x30) tinned copper, separator tape, twisted pair
2. INSULATION: Rubber
3. JACKET: Chrome PVC
4. SHIELDING: Tinned copper braid (73%)
5. RATINGS: 300 V rms, -20°C to 80°C



Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8208	1	Red, White	43	0.022	0.025	0.257	46

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

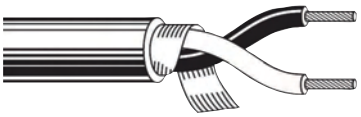
Multipair Nonplenum Shielded

Overall Spiral Shield

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper. Twisted pair
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. SHIELDING: Tinned copper spiral wrapped shield (85% coverage)
5. STANDARDS: UL AWM Style 2095 (8737, 8759) NEC: CMG
6. RATINGS: 300 V, -20°C to 60°C (8780, 8790), 80°C (8737, 8759)



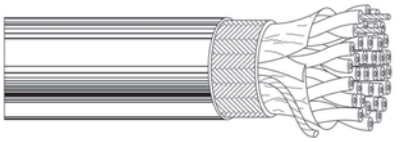
Anixter No.	AWG	Stranding	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8737	22	7x30	1	Black & Red	20	0.060	0.025	0.180	49
B8759	20	7x28	1	Black & Red	25	0.016	0.025	0.199	47
B8790	18	7x26	1	Red, White	35	0.022	0.028	0.241	53
B8780	16	19x29	1	Black, White	46	0.023	0.030	0.280	57

Low Capacitance Overall Foil/Braid for RS-232/422 - PP Insulation

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 28 AWG stranded (7x36) tinned copper
2. INSULATION: Polypropylene
3. JACKET: Chrome PVC, see Chart 3 for color code
4. SHIELDING: Overall Beldfoil (100% coverage) and tinned copper braid shield (90% coverage), 28 AWG stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 2960, NEC: CL2
6. RATINGS: 30 V (AWM), 150 V (CL2), -20°C to 60°C, 100 ohm nominal impedance, 66% velocity of propagation, 15.5 pF/ft. capacitance



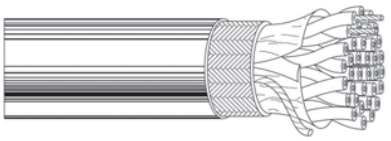
Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B9804	2	32	0.214
B9805	3	35	0.222
B9806	4	39	0.237
B9807	5	39	0.240
B9808	7	44	0.256
B9809	9	53	0.290
B9812	12	62	0.319
B9813	13	66	0.336
B9819	18	82	0.365
B9825	25	108	0.429
B9814	31	127	0.462

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Multipair Nonplenum Shielded

Low Capacitance Overall Foil/Braid for RS-232/422 - PE Insulation

BELDEN



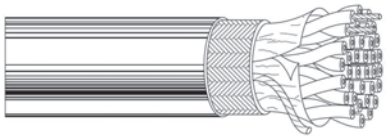
SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper
2. INSULATION: Polyethylene, see Chart 5 for color code
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil (100% coverage) and tinned copper braid (65% coverage), tinned copper drain wire
5. STANDARDS: UL AWM Style 2929, NEC: CM
6. RATINGS: 30 V (AWM), 300 V (CM), -30°C to 80°C, nom. impedance 100 ohms, nom. velocity of propagation 66%, nom. capacitance 15.5 pF/ft.

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B9829	2	43	0.291
B9830	3	53	0.305
B9831	4	58	0.330
B9832	5	65	0.338
B9839	6	67	0.364
B9833	7	77	0.370
B9834	9	90	0.419
B9835	10	99	0.451
B9836	12	107	0.464
B9837	18	162	0.567

Low Capacitance Overall Foil/Braid for RS-232/422 - Datalene Insulation

BELDEN



SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper, twisted pairs
2. INSULATION: Datalene (foam Polyethylene), see Chart 5 for color code
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil (100%) plus tinned copper braid (65%), 24 AWG tinned copper drain wire
5. STANDARDS: UL AWM Style 2919, NEC: CM
6. RATINGS: 30 V (AWM), 300 V (CM), -30°C to 80°C, nom. impedance 100 ohms, nom. velocity of propagation 78%, nom. capacitance 12.5 pF/ft.

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B8102	2	38	0.270
B8103	3	42	0.283
B8104	4	46	0.302
B8105	5	47	0.313
B8106	6	58	0.341
B8107	7	63	0.341
B8108	8	72	0.370
B8110	10	90	0.427
B8112	12 & 1/2	101	0.440
B8115	15	114	0.477
B8118	18	141	0.537
B8125	25	191	0.632

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

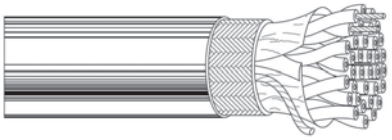
Multipair Nonplenum Shielded

Low Capacitance Overall Foil/Braid for RS-232/485 - Datalene Insulation

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 28 AWG stranded (7x36) tinned copper conductors
2. INSULATION: Datalene (foam Polyethylene), see Chart 5 for color code
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil (100%) and tinned copper braid shield (65%), 28 AWG stranded tinned copper drain wire
5. SPECIFICATIONS: UL AWM Style 2919, NEC: CL2
6. RATINGS: 30 V (AWM) 150 V (CL2), -30°C to 80°C, nom. impedance 120 ohms, nom. velocity of propagation 78%, nom. capacitance 11 pF/ft.



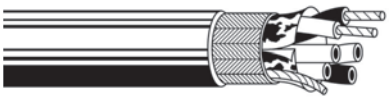
Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B8132	2	29	0.220
B8133	3	35	0.265
B8134	4	39	0.286
B8135	5	40	0.288
B8138	8	51	0.330
B8142	12 & 1/2	68	0.389
B8148	18	92	0.467
B8155	25	118	0.565

Low Capacitance Overall Foil/Braid for RS-485 - PE Insulation

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper
2. INSULATION: Polyethylene, see Chart 5 for color code
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil (100% coverage) and tinned copper braid shield (90% coverage), 24 AWG tinned copper drain wire
5. STANDARDS: UL AWM Style 2919, NEC: CM
6. RATINGS: 30 V (AWM) 300 V (CM), -30°C to 80°C, nom. impedance 120 ohms, nom. velocity of propagation 66%, nom. capacitance 12.8 pF/ft.



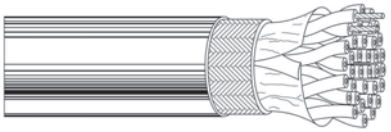
Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B9841	1	40	0.232
B9842	2	57	0.340
B9843	3	67	0.360
B9844	4	78	0.390

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Multipair Nonplenum Shielded

Low Capacitance Overall Foil/Braid for RS-232 - PVC Insulation

BELDEN



SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper
2. INSULATION: SR-PVC
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil (100% coverage) and tinned copper braid shield (65% coverage)
5. STANDARDS: UL AWM Style 2464, NEC: CMG
6. RATINGS: 300 V, -30°C to 80°C, nom. impedance 75 ohms, nom. velocity of propagation 60%, nom. capacitance 30 pF/ft.

24 AWG (7X32) - SEE CHART 5 FOR COLOR CODE

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B8332	2	37	0.250
B8333	3	44	0.265
B8334	4	47	0.272
B8335	5	57	0.295
B8336	6	62	0.310
B8337	7	65	0.321
B8340	10	90	0.385
B8342	12 & 1/2	109	0.405
B8345	15	120	0.445
B8348	18	149	0.480
B8355	25	192	0.550

22 AWG (7X30) - SEE CHART 3 FOR COLOR CODE

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B8302	2	42	0.280
B8303	3	48	0.294
B8304	4	66	0.320
B8305	5	67	0.322
B8306	6	79	0.348
B8307	7	85	0.348
B8308	8	101	0.384
B8310	10	118	0.440
B8312	12 & 1/2	137	0.455
B8315	15	164	0.502
B8318	18	190	0.540
B8325	25	248	0.620

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

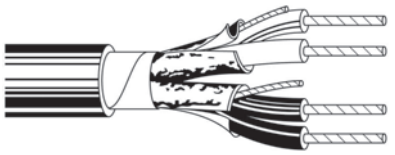
Multipair Nonplenum Shielded

Low Capacitance Individually Shielded for RS-422

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper, twisted pairs
2. INSULATION: Datalene (foamed Polyethylene), see Chart 3 for color code
3. SHIELDING: Individual Beldfoil (100% coverage), 24 AWG stranded tinned copper drain wire
4. JACKET: Chrome PVC
5. STANDARDS: UL AWM Style 2493 (60°C, No voltage rating), NEC: CM
6. RATINGS: 300 V, -20°C to 60°C (AWM) 80°C (CM), nom. 100 impedance ohms, nom. velocity of propagation 76%, nom. capacitance 12.5 pF/ft.



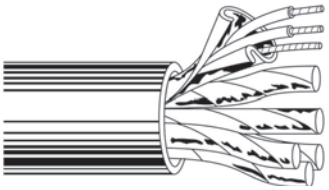
Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B9729	2	39	0.266
B9730	3	46	0.334
B9728	4	51	0.363
B9731	6	83	0.421
B9732	9	106	0.488
B9734	12	154	0.575
B9735	15	185	0.639
B9736	17	210	0.671
B9737	19	231	0.671
B9738	27	334	0.797

Individually Shielded - PE Insulation, PVC Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper. Twisted pairs
2. INSULATION: Polyethylene, see Chart 3 for clor code
3. JACKET: Chrome PVC
4. SHIELDING: Individual Beldfoil (100%), 24 AWG stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 2919 (30 V), NEC: CM
6. RATINGS: 300 V, -20°C to 80°C, nom. impedance 60 ohms, nom. velocity of propagation 66%, nom. capacitance 25 pF/ft.



Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B9990	3	36	0.255
B9991	6	62	0.330
B9992	9	86	0.383
B9993	12	107	0.428
B9995	25	228	0.636

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

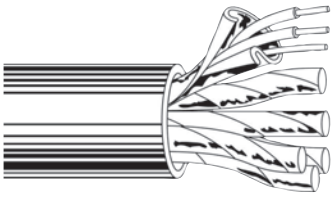
Multipair Nonplenum Shielded

Individually Shielded - PVC Insulation and Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG solid tinned copper, twisted pairs
2. SHIELDING: Individual Beldfoil (100%), 22 AWG solid tinned copper drain wire
3. INSULATION: PVC, see Chart 3 for color code
4. JACKET: Chrome PVC
5. STANDARDS: UL AWM Style 2464, NEC: CMG
6. RATINGS: 300 V, 80°C, nom. capacitance 40 pF/ft.



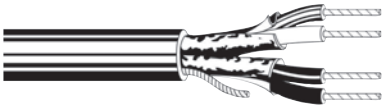
Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8767	3	46	0.013	0.037	0.279
B8768	6	92	0.013	0.037	0.379
B8764	9	122	0.013	0.040	0.425
B8765	11	149	0.013	0.040	0.470
B8766	15	180	0.013	0.045	0.525

Individually Shielded - PP Insulation, PVC Jacket - 300 V

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded tinned copper (7x30), twisted pairs
2. INSULATION: Polypropylene
3. JACKET: Chrome PVC
4. SHIELDING: Individual Beldfoil (100% coverage), 24 AWG stranded (7x32) tinned copper drain wire
5. STANDARDS: NEC: CM
6. RATINGS: 300 V rms, 60°C



Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nominal Imped. (Ohms)	Nom. Vel of Prop.	Nominal Capacitance (pF/ft.)
B8723	2	Red & Black, Green & White	19	0.160	45	66%	35

Available in Low-Smoke - Part Number B8723SB

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

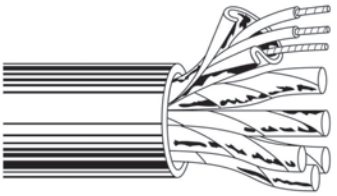
Multipair Nonplenum Shielded

Individually Shielded - PP Insulation, PVC Jacket - 30 V

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pairs
2. INSULATION: Polypropylene, see Chart 3 for color code
3. JACKET: Chrome PVC
4. SHIELDING: Individual Beldfoil (100% coverage), stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 2919, NEC: CM
6. RATINGS: 30 V (AWM) 300 V (CM), -20°C to 80°C, nom. impedance 50 ohms, nom. velocity of propagation 66%, nom. capacitance 30 pF/ft.



22 AWG (7X30) - 22 AWG DRAIN WIRE

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B8777	3	42	0.273
B8778	6	78	0.352
B8774	9	109	0.410
B8775	11	125	0.464
B9768	12	132	0.464
B8776	15	187	0.548
B9769	17	203	0.577
B8769	19	248	0.601
B8773	27	329	0.709
B9767	37	458	0.800

20 AWG (7X28) - 22 AWG DRAIN WIRE

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B9873	3	61	0.341
B9874	6	109	0.445
B9875	9	165	0.555
B9876	11	197	0.600
B9877	12	211	0.617
B9879	15	296	0.689

18 AWG (19X30) - 20 AWG DRAIN WIRE

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B9773	3	93	0.404
B9774	6	173	0.560
B9775	9	260	0.655
B9776	12	300	0.735
B9777	15	415	0.819

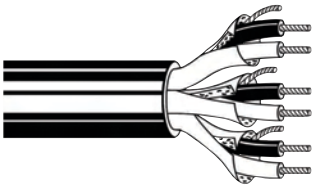
Available in Low-Smoke - Part Number B8777SB

Individually Shielded - PP Insulation, HDPE Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 20 AWG stranded (10x30) tinned copper, twisted pairs
2. INSULATION: Polypropylene
3. JACKET: Black high-density polyethylene
4. SHIELDING: Individual Beldfoil (100% coverage), 22 AWG stranded tinned copper drain wire
5. RATINGS: 350 V, -40°C to 80°C



Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nominal Imped. (Ohms)	Nom. Vel of Prop.	Nominal Capacitance (pF/ft.)
B9883	3	See Chart 3	57	0.340	50	66%	30
B9886	6	See Chart 3	105	0.455	50	66%	30

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

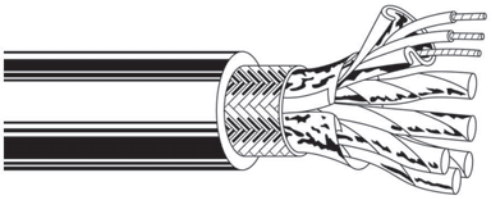
Multipair Nonplenum Shielded

Individually Shielded with Overall Foil/Braid for RS-232/422

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32). Twisted pairs
2. INSULATION: Datalene (foamed Polyethylene), see Chart 3 for color code
3. JACKET: Chrome PVC
4. SHIELDING: Individual Beldfoil each pair with 24 AWG stranded tinned copper drain wire, overall Beldfoil (100%) and tinned copper braid shield (65%)
5. STANDARDS: UL AWM Style 2493, VW-1, NEC: CM
6. RATINGS: 300 V, -40°C to 60°C, nom. impedance 100 ohms, nom. velocity of propagation 78%, nom. capacitance 12.5 pF/ft.



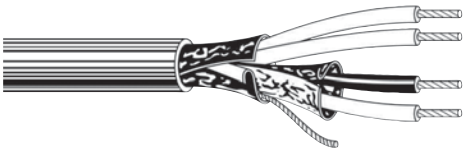
Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B8162	2	57	0.343
B8163	3	66	0.359
B8164	4	79	0.388
B8165	5	90	0.413
B8166	6	99	0.446
B8167	7	103	0.446
B8168	8	115	0.479
B8170	10	164	0.584
B8175	15	210	0.665
B8178	18	238	0.686
B8185	25	356	0.822

One Shielded Pair Plus One Unshielded Pair with Overall Foil Shield

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 25 AWG stranded (7x33) tinned, each conductor has three copper or four copper-covered steel strands
2. INSULATION: Polyethylene
3. JACKET: Chrome PVC
4. SHIELDING: One pair individual Beldfoil (100% coverage), one pair unshielded, overall Beldfoil (100% coverage), 25 AWG stranded tinned copper drain wire
5. RATINGS: 400 V, 80°C



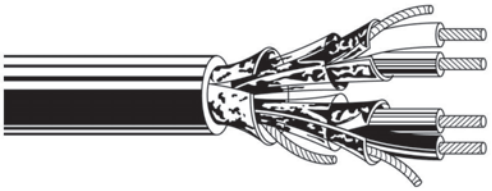
Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8434	2	Shielded: Red & Black; Unshielded: Green & White	12	0.013	0.020	0.165	25

Individually Shielded Pairs with Overall Foil Shield

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded (7x30) tinned copper
2. INSULATION: Polypropylene
3. JACKET: Chrome PVC
4. SHIELDING: Pairs have individual Beldfoil shields with a aluminum/polyester isolation wrap. Overall Beldfoil (100%), 24 AWG stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 2717, NEC: CM
6. RATINGS: 300 V, -20°C to 80°C



Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8728	2	Black & Red, Green & White	31	0.050	0.028	0.215	35

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Multipair Nonplenum Shielded

One Shielded Pair Plus One Unshielded Single

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 20 AWG stranded (7x28) tinned copper
2. INSULATION: Polyethylene
3. JACKET: Chrome PVC
4. SHIELDING: Beldfoil shield over Red and Black pair. Clear conductor unshielded. 20 AWG drain wire
5. RATINGS: 350 V, -20°C to 80°C

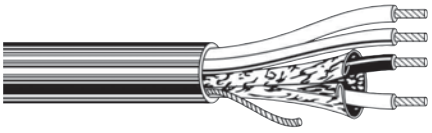
Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8763	1.5 (1 pair + 1 single)	Shielded: Black & Red; Unshielded: Clear	25	0.014	0.028	0.210	26

One Shielded Pair Plus One Unshielded Pair

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 20 AWG stranded (7x28) tinned copper
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. SHIELDING: Beldfoil shield over Red and Black conductors only. 22 AWG drain wire
5. STANDARDS: VW-1, NEC: CMG
6. RATINGS: 350 V, -20°C to 80°C



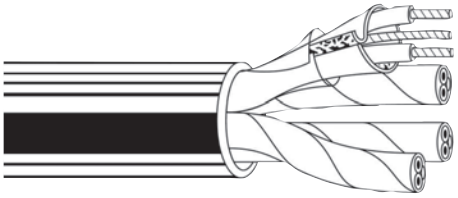
Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8722	2	Shielded: Black & Red; Unshielded: Clear	36	0.016	0.028	0.226	60

Individually Shielded Pairs with Drain Wires

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 20 AWG stranded (7x28) tinned copper
2. INSULATION: Polypropylene
3. JACKET: Chrome PVC
4. SHIELDING: Four groups of two conductors with drain wires cabled around common axis, each group individually Beldfoil shielded with polyester tape wrap. 22 AWG stranded tinned copper drain wires
5. STANDARDS: VW-1, NEC: CM
6. RATINGS: 400 V, -40°C to 105°C



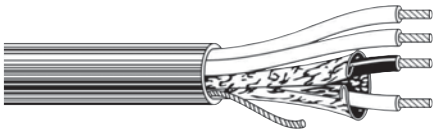
Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8725	4	Red & Black; Green & White; White/Red & White/Black; White/Green & White/Yellow	74	0.015	0.030	0.336	27

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Multipair Nonplenum Shielded

One Shielded Pair Plus One Unshielded Pair - 20 and 18 AWG

BELDEN



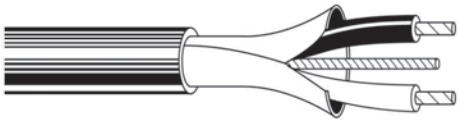
SPECIFICATIONS

1. CONDUCTORS: 20 and 18 AWG stranded (7x28 and 16x30) tinned copper
2. INSULATION: Polyethylene
3. JACKET: Beige PVC
4. SHIELDING: Beldfoil shield (100%) over 20 AWG pair, 22 AWG stranded tinned copper drain
5. STANDARDS: UL AWM Style 2094, NEC: CM
6. RATINGS: 300 V, -20°C to 60°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9155	1P + 1P	Shielded: Black & Red; Unshielded: Clear	48	0.020	0.031	0.262	24 + 22

Overall Beldfoil Shield - Analog Audio Cable

BELDEN



SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded (7x30) tinned copper, twisted pair
2. INSULATION: See table
3. JACKET: See table
4. STANDARDS: See table
5. RATINGS: See table

PP INSULATION, PVC JACKET, VARIOUS COLORS, 300 V RMS, 75°C, NEC: CMR

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9451	1	Black & Red	16	0.008	0.020	0.135	35

PP INSULATION, BLACK LOW-SMOKE JACKET, PVC JACKET, 300 V RMS, 105°C, NEC: CMG-LS

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9451SB	1	Black & Red	20	0.008	0.032	0.160	35

PO INSULATION, PVC JACKET, ZIPCORD CONSTRUCTION, VARIOUS COLORS, 300 V, 105°C, NEC: CMR

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9451D	2	Black & Red	29	0.008	0.020	0.135 x 0.270	34

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Multipair Plenum Unshielded

FEP Insulation and Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pairs
2. INSULATION: FEP
3. JACKET: Red FEP
4. STANDARDS: Plenum rated, NEC: CMP
5. RATINGS: 300 V, -70°C to 200°C

22 AWG (7X30)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B88442	1	Black & Red	8.0	0.006	0.012	0.102
B88741	2	Black & Red, Black & White	16	0.006	0.012	0.169
B88757	4	Black & Red, Black & White, Black & Green, Black & Blue	28	0.006	0.012	0.200

18 AWG (7X26)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B89740	1	Black & Red	15	0.007	0.009	0.132

FEP Insulation, Flamarrest Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pairs
2. INSULATION: FEP
3. JACKET: Natural Flamarrest (low smoke PVC)
4. STANDARDS: NEC: CMP
5. RATINGS: 300 V, 0°C to 60°C (B82740 - 75°C)

22 AWG (7X30)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B82442	1	Black & Red	8.0	0.006	0.015	0.113
B82741	2	Black & Red, Black & White	20	0.006	0.014	0.179
B82742	3	Black & Red, Black & White, Black & Green	26	0.006	0.014	0.191
B82743	6	Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown	46	0.006	0.015	0.238
B82757	4	Black & Red, Black & White, Black & Green, Black & Blue	32	0.006	0.014	0.210

18 AWG (19X30)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B82740	1	Black & Red	16	0.007	0.015	0.143

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

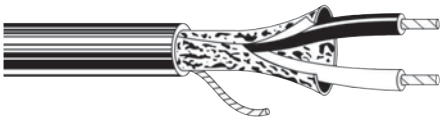
Multipair Plenum Shielded

Overall Beldfoil Shield for RS-232 - FEP Insulation and Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper, twisted pairs
2. INSULATION: FEP
3. SHIELDING: Overall Beldfoil (100%), 24 AWG stranded tinned copper drain wire
4. JACKET: FEP
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, -70°C to 200°C



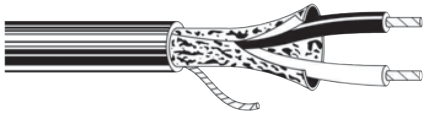
Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B88641	1	Black & Red	9	0.006	0.014	0.106	31
B89503	3	See Chart 3	21	0.006	0.014	0.175	21
B89504	4	See Chart 3	29	0.006	0.014	0.192	21
B89505	5	See Chart 3	33	0.006	0.014	0.197	21

Overall Beldfoil Shield for RS-232 - FEP Insulation, Flamarrest Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper, twisted pairs
2. INSULATION: FEP
3. JACKET: Natural colored Flamarrest (low smoke PVC)
4. SHIELDING: Overall Beldfoil (100% coverage), 24 AWG stranded tinned copper drain wire
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, 0°C to 60°C (B82505 and B82509 - 75°C)



Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B82641	1	See Chart 3	8.0	0.006	0.014	0.106	31
B82502	2	See Chart 3	14	0.006	0.014	0.162	25
B82503	3	See Chart 3	18	0.006	0.014	0.169	25
B82504	4	See Chart 3	26	0.006	0.014	0.193	25
B82505	5	See Chart 3	31	0.006	0.015	0.196	25
B82506	6	See Chart 3	35	0.006	0.015	0.209	25
B82509	9	See Chart 3	49	0.006	0.015	0.246	23

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

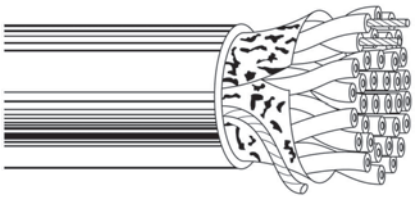
Multipair Plenum Shielded

Low Capacitance Overall Beldfoil Shield for RS-232/422

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32), twisted pairs
2. INSULATION: Foam FEP, see Chart 5 for color code
3. JACKET: Grey Fluorocopolymer (PVDF)
4. SHIELDING: Overall Beldfoil (100% coverage), 24 AWG stranded tinned copper drain wire
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, -20°C to 150°C, nom. impedance 100 ohms, nom. velocity of propagation 78%, nom. capacitance 12.95 pF/ft.



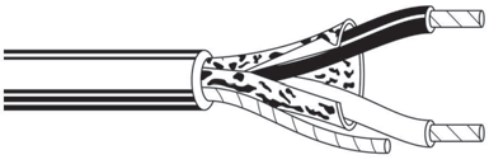
Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B88102	2	20	0.203
B88103	3	31	0.239
B88104	4	38	0.259
B88105	5	44	0.267
B88106	6	50	0.293
B88107	7.5	59	0.293
B88109	9	74	0.352
B88112	12.5	97	0.397
B88118	18.5	148	0.482
B88125	25	195	0.581

Overall Beldfoil Shield - FEP Insulation, Flamarrest Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pair
2. INSULATION: FEP
3. JACKET: Natural colored Flamarrest (low smoke PVC)
4. SHIELDING: Overall Beldfoil (100% coverage), stranded tinned copper drain wire
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, 75°C



22 AWG (7X30)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B82761	1	Black, Red	11	0.006	0.014	0.116	35

18 AWG (19X30)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B82760	1	Black, Red	21	0.007	0.014	0.146	51

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

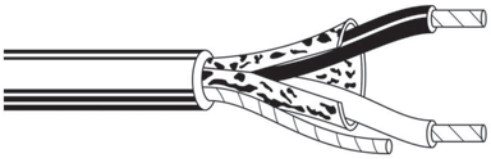
Multipair Plenum Shielded

Overall Beldfoil Shield - FEP Insulation, Fluorocopolymer Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pair
2. INSULATION: FEP
3. JACKET: Red Fluorocopolymer (PVDF)
4. SHIELDING: Overall Beldfoil (100% coverage), stranded tinned copper drain wire
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, -20°C to 150°C



22 AWG (7X30)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B87761	1	Black, Red	11	0.006	0.014	0.116	35

18 AWG (19X30)

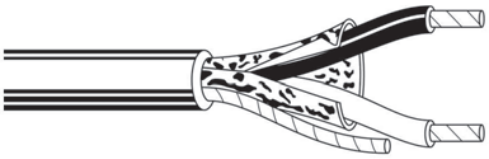
Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B87760	1	Black, Red	20	0.007	0.014	0.150	51

Overall Beldfoil Shield - FEP Insulation and Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded (7x30) tinned copper, twisted pair
2. INSULATION: FEP
3. JACKET: Red FEP
4. SHIELDING: Overall Beldfoil (100% coverage), stranded tinned copper drain wire
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, -70°C to 200°C



22 AWG (7X30)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B88761	1	Black, Red	13	0.006	0.016	0.123	35

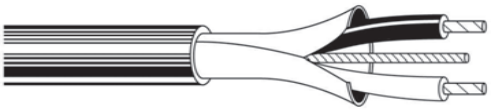
18 AWG (7X30)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B88760	1	Black, Red	22	0.007	0.014	0.146	51

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Multipair Plenum Shielded

Overall Beldfoil Shield - Analog Audio Cable



BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded (7x30) tinned copper, twisted pair
2. INSULATION: FEP
3. JACKET: See table
4. SHIELDING: Overall Beldfoil (100% coverage), 22 AWG stranded (7x30) tinned copper drain wire
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, -20°C to 75°C

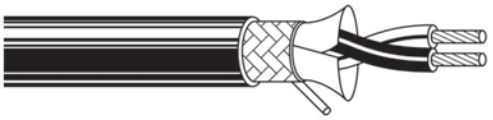
FLAMARREST JACKET, VARIOUS COLORS

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9451P	1	Black & Red	16	0.007	0.017	0.127	35

WHITE FLAMARREST JACKET, ZIPCORD CONSTRUCTION

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9451DP	2	Black & Red, Black & White	26	0.007	0.017	0.127 x 0.269	35

Low Capacitance Overall Foil/Braid - FEP Insulation, Flamarrest Jacket



BELDEN

SPECIFICATIONS

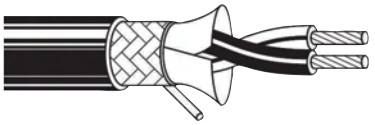
1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper
2. INSULATION: Foam FEP
3. JACKET: Natural colored Flamarrest (low smoke PVC)
4. SHIELDING: Overall Beldfoil (100% coverage), tinned copper braid shield (90% coverage), 24 AWG stranded tinned copper drain wire
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, 0°C to 75°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B82841	1	See Chart 5	26	0.025	0.015	0.204	12
B82842	2	See Chart 5	42	0.018	0.015	0.273	12

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Multipair Plenum Shielded

Low Capacitance Overall Foil/Braid - FEP Insulation and Jacket



BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper
2. INSULATION: Foam FEP
3. JACKET: Red colored FEP
4. SHIELDING: Overall Beldfoil (100% coverage), tinned copper braid shield (90% coverage), 24 AWG stranded tinned copper drain
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, -70°C to 200°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nominal Imped. (Ohms)	Nominal Capacitance (pF/ft.)
B89841	1	See Chart 5	27	0.202	120	12
B89842	2	See Chart 5	49	0.305	120	12

Low Capacitance Individually Shielded for RS-232/422

BELDEN

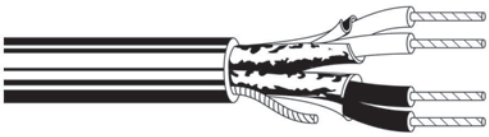
SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) twisted pairs
2. INSULATION: Foamed FEP, see Chart 5 for color code
3. JACKET: Gray Fluorocopolymer (PVDF)
4. SHIELDING: Individual Beldfoil (100% coverage), 24 AWG stranded tinned copper drain wire
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, -15°C to 150°C, nom. impedance 100 ohms, nom. velocity of propagation 76%, nom. capacitance 13.5 pF/ft.

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B89729	2	See Chart 5	31	0.018	0.019	0.261	13.5
B89730	3	See Chart 5	40	0.019	0.017	0.278	13.5
B89728	4	See Chart 5	50	0.019	0.017	0.307	13.5
B89731	6	See Chart 5	71	0.019	0.014	0.361	13.5
B89705	5	See Chart 5	62	0.019	0.014	0.333	13.5
B89757	7	See Chart 5	80	0.019	0.014	0.361	13.5
B89732	9	See Chart 5	108	0.019	0.016	0.433	13.5
B89734	12	See Chart 5	140	0.019	0.019	0.498	13.5
B89758	18	See Chart 5	204	0.019	0.019	0.616	13.5

Available with a natural Flamarrest jacket - part number B82729

Individually Shielded - FEP Insulation, Flamarrest Jacket



BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded (7x30) tinned copper, twisted pairs
2. INSULATION: FEP
3. JACKET: Natural colored Flamarrest (low smoke PVC)
4. SHIELDING: Individual Beldfoil (100% coverage), stranded tinned copper drain wire
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, 0°C to 60°C (80°C for B82723)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B82723	2	Red & Black, Green & White	19	0.007	0.017	0.153	43
B82777	3	See Chart 3	39	0.011	0.017	0.237	35
B82778	6	See Chart 3	71	0.011	0.017	0.314	35

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

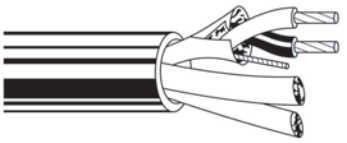
Multipair Plenum Shielded

Individually Shielded - FEP Insulation and Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded (7x30) tinned copper, twisted pairs
2. INSULATION: FEP
3. JACKET: Red FEP
4. SHIELDING: Individual Beldfoil (100% coverage), stranded tinned copper drain
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, -70°C to 200°C



Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nominal Imped. (Ohms)	Nom. Vel of Prop.	Nominal Capacitance (pF/ft.)
B88723	2	Red & Black, Green & White	19	0.148	40	69%	35
B88777	3	See Chart 3	42	0.234	50	69%	31
B88778	6	See Chart 3	75	0.309	50	69%	31

Individually Shielded - FEP Insulation, Fluorocopolymer Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded (7x30) tinned copper, twisted pairs
2. INSULATION: FEP
3. JACKET: Red Fluorocopolymer
4. SHIELDING: Individual Beldfoil (100%), stranded tinned copper drain
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, -20°C to 150°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nominal Imped. (Ohms)	Nom. Vel of Prop.	Nominal Capacitance (pF/ft.)
B87723	2	Red & Black, Green & White	18	0.148	40	69%	35
B87777	3	See Chart 3	40	0.234	50	69%	31
B87778	6	See Chart 3	73	0.309	50	69%	31

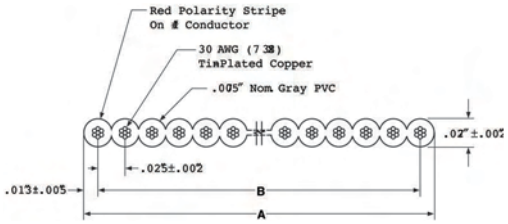
Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Flat Ribbon Cable

9L300XX Series (0.025 in. Pitch, 30 AWG, PVC)

BELDEN

Belden's miniaturized 0.025 in. pitch extruded gray ribbon cable provides higher signal density, greater design flexibility, and an alternative to the expensive fluoropolymer transmission cables. The cable is manufactured to precise tolerances which allows for mass-termination to standard 0.050 in. contact IDC connectors while assuring consistent and reliable electrical characteristics. With the miniaturization of the interconnects, significant reduction in components can be achieved. The cable is constructed of stranded 30 AWG (7x38) tinned copper conductors. Insulation material consists of gray PVC, with a red polarity stripe for proper circuit alignment. Standard conductor counts are 26 and 50; other sizes are available upon request. The cable is UL approved and CSA certified, and passes the VW-1 Vertical Wire Flame Test.



SPECIFICATIONS

1. CONDUCTORS: 30 AWG (7x38) tinned copper
2. INSULATION: 0.0075 in. nom. wall gray PVC
3. PITCH: 0.025 in. ± 0.002 in.
4. TEMPERATURE RATING: -40°C to 105°C
5. FLAMMABILITY RATING: VW-1, CSA: FT1
6. UL APPROVAL FILE: E12683, AWM Style 2678
7. CSA APPROVAL FILE: LL7874, CSA AWM I A 105°C 150 V FT1
8. PACKAGING: H100, H300
9. VOLTAGE RATING: 150 V
10. CURRENT RATING: 0.5 A per conductor
11. CONDUCTOR RESISTANCE: 108 ohms/1,000 ft.
12. INSULATION RESISTANCE: $>1 \times 10^{10}$ 10 ohms 10 ft. (3 m)
13. IMPEDANCE*: 70 ohms
14. CAPACITANCE*: (@ 1 MHz) 24 pF/ft. (79 pF/m)
15. INDUCTANCE*: (@ 1 MHz) 0.14 µH/ft. (0.46 µH/m)
16. PROPOGATION DELAY*: 1.52 ns/ft. (4.99 ns/m)

*Test Configuration: G-S-G (ground-signal-ground).

APPLICATIONS

Internal interconnection or internal wiring of electronic equipment.

Anixter No.	No. of Conductors	Width "A"	Span "B"
B9L30050	50	1.250 ±0.011	1.225 ±0.009

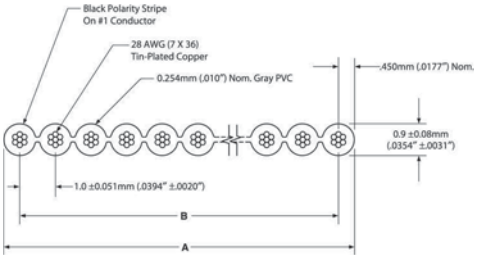
Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Flat Ribbon Cable

2L280XX Series (1 mm Pitch, 28 AWG, PVC)

BELDEN

Belden's 1 mm (0.03937 in. pitch) extruded gray ribbon cable was designed for the disk drive market where the 2 mm IDC connector is widely used. The cable provides improved space reduction, easy breakouts for circuit routing, and maintains the current carrying capacity required for these applications. In addition, the electrical performance meets those requirements specified by the SCSI-3 parallel interface document. The cable is constructed of stranded 28 AWG (7x36) tinned copper conductors. Insulation material consists of gray PVC, with a black polarity stripe for proper circuit alignment. Standard conductor counts are 26, 34, 40, 44 and 50; other sizes are available upon request. The cable is UL approved and CSA certified, and passes the VW-1 Vertical Wire Flame Test.



SPECIFICATIONS

1. CONDUCTORS: 28 AWG (7x36) tinned copper
2. INSULATION: 0.010 in. nom. wall gray PVC
3. PITCH: 0.0394 in. ± 0.002 in.
4. TEMPERATURE RATING: -40°C to 105°C
5. FLAMMABILITY RATING: VW-1, CSA: FT1
6. UL APPROVAL FILE: E12683, AWM Style 2651
7. CSA APPROVAL FILE: LL7874, CSA AWM I A 105°C 300 V FT1
8. PACKAGING: H100, R300
9. VOLTAGE RATING: 300 V
10. CURRENT RATING: 1 A per conductor
11. CONDUCTOR RESISTANCE: 68.2 ohms/1,000 ft.
12. INSULATION RESISTANCE: $>1 \times 10^{10}$ 10 ohms 10 ft. (3 m)
13. IMPEDANCE: 90 ohms
14. CAPACITANCE: (@ 1 MHz) 16.5 pF/ft. (54 pF/m)
15. INDUCTANCE: (@ 1 MHz) 0.16 µH/ft. (0.52 µH/m)
16. PROPAGATION DELAY: 1.47 ns/ft. (4.8 ns/m)

APPLICATIONS

Internal interconnection or internal wiring of electronic equipment.

Anixter No.	No. of Conductors	Width "A"	Span "B"
B2L28026-100	26	1.020 ±0.008	0.984 ±0.008
B2L28050-100	50	1.965 ±0.012	1.929 ±0.012

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Flat Ribbon Cable

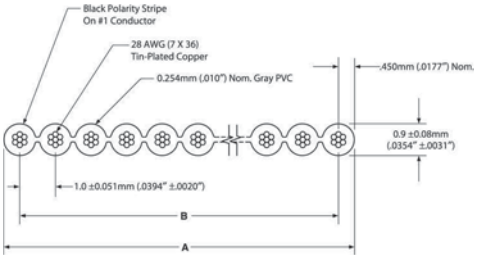
9L280XX Series (0.050 in. Pitch, 28 AWG, PVC)

BELDEN

Belden's (9L280XX Series) 0.050 in. pitch extruded gray ribbon cable was designed for general purpose electronic interconnect applications. The cable provides reliable mass-termination to standard 0.100 in. contact IDC connectors, flexibility, consistent electricals and breakouts can be made easily with the tear feature design. The cable is constructed of stranded 28 AWG (7x36) tinned copper conductors. Insulation material consists of gray PVC, with a red polarity stripe for proper circuit alignment. Various conductor counts are standard; other sizes are available upon request. The cable is UL approved and CSA certified, and passes the VW-1 Vertical Wire Flame Test.

Color Code: Gray with red polarity stripe (standard).

Application: Internal interconnection or internal wiring of electronic equipment.



SPECIFICATIONS

1. CONDUCTOR: 28 AWG (7x36) tinned copper
2. INSULATION: 0.010 in. nom. wall gray PVC
3. PITCH: 0.050 in. ± 0.002 in.
4. TEMPERATURE RATING -40°C to 105°C
5. FLANMABILITY RATING: UL: VW-1; CSA: FT1
6. UL APPROVAL FILE: E12683, AWM Style 2651
7. CSA APPROVAL FILE: LL7874, CSA AWM I A 105°C 300 V FT1
8. PACKAGING: H100, H300, R300
9. VOLTAGE RATING: 300 V
10. CURRENT RATING: 1 A per conductor
11. CONNECTOR RESISTANCE: 68.2 ohms /1,000 ft.
12. INSULATION RESISTANCE: $>1 \times 10^{10}$ 10 ohms 10 ft. (3 m)
13. IMPEDANCE*: 105 ohms
14. CAPACITANCE*: (@ 1 MHz) 15 pF/ft. (49 pF/m)
15. INDUCTANCE*: (@ 1 MHz) 0.20 µH/ft. (0.66 µH/m)
16. PROPOGATION DELAY*: 1.40 ns/ft. (4.6 ns/m)

*Test Configuration: G-S-G (ground-signal-ground)

Anixter No.	No. of Conductors	Width "A"	Span "B"
B9L28009-100	9	0.45 ±0.008	0.40 ±0.008
B9L28010-100	10	0.50 ±0.008	0.45 ±0.008
B9L28014-300	14	0.70 ±0.008	0.65 ±0.008
B9L28015-100	15	0.75 ±0.008	0.70 ±0.008
B9L28016-100	16	0.80 ±0.008	0.75 ±0.008
B9L28020-100	20	1.00 ±0.008	0.95 ±0.008
B9L28025-100	25	1.25 ±0.008	1.20 ±0.008
B9L28026-100	26	1.30 ±0.008	1.25 ±0.008
B9L28034-100	34	1.70 ±0.008	1.65 ±0.008
B9L28040-100	40	2.00 ±0.012	1.95 ±0.012
B9L28050-100	50	2.50 ±0.012	2.45 ±0.012
B9L28064-100	64	3.20 ±0.012	3.15 ±0.012

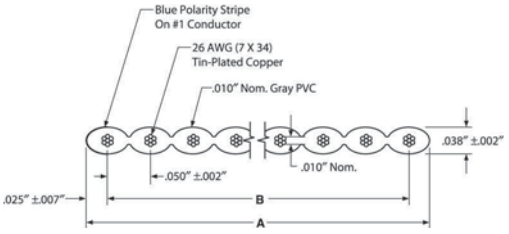
Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Flat Ribbon Cable

9L260XX Series (0.050 in. Pitch, 26 AWG, PVC)

BELDEN

Belden's (9L260XX series) 0.050 in. pitch extruded gray ribbon cable was designed for general purpose electronic interconnect applications where higher current carrying capacities are required. The design also conforms to the electrical performance specifications outlined by the SCSI-3 parallel interface document. As with the 9L280XX series, the cable provides reliable mass-termination to standard 0.100 in. contact IDC connectors, flexibility, consistent electricals and breakouts can be made easily with the tear feature design. In addition, the overall cable thickness is only 0.038 in. ± 0.002 in. allowing mateability with all standard IDC connectors. The cable is constructed of stranded 26 AWG (7x34) tinned copper conductors. Insulation material consists of gray PVC, with a blue polarity stripe for proper circuit alignment. Various conductor counts are standard; other sizes are available upon request. The cable is UL approved and CSA certified, and passes the VW-1 Vertical Wire Flame Test.



Color Code: Gray with blue polarity stripe (standard).

Application: Internal interconnection or internal wiring of electronic equipment.

SPECIFICATIONS

1. CONDUCTOR: 26 AWG (7x34) tinned copper
2. INSULATION: 0.010 in. nom. wall gray PVC
3. PITCH: 0.050 in. ± 0.002 in.
4. TEMPERATURE RATING: -40°C to 105°C
5. FLAMMABILITY RATING: UL: VW-1; CSA: FT1
6. UL APPROVAL FILE: E12683, AWM Style 2651
7. CSA APPROVAL FILE: 105°C 300 V FT1
8. PACKAGING: H100, H300, R300
9. VOLTAGE RATING: 300 V
10. CURRENT RATING: 1.5 A
11. CONDUCTOR RESISTANCE: 43 ohms/1,000 ft.
12. INSULATION RESISTANCE: $>1 \times 10^{10}$ 10 ohms 10 ft. (3 m)
13. IMPEDANCE: 90 ohms
14. CAPACITANCE*: (@ 1 MHz) 18 pF/ft. (59.06 pF/m)
15. INDUCTANCE*: (@ 1 MHz) 0.15 μH/ft. (0.49 μH/m)
16. PROPAGATION DELAY*: 1.48 ns/ft. (4.85 ns/m)

*Test Configuration: G-S-G (ground-signal-ground)

Anixter No.	No. of Conductors	Width "A"	Span "B"
B9L26010-100	10	0.50 ±0.008	0.45 ±0.008
B9L26016-100	16	0.80 ±0.008	0.75 ±0.008
B9L26020-100	20	1.00 ±0.008	0.95 ±0.008
B9L26034-100	34	1.70 ±0.008	1.65 ±0.008

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Flat Ribbon Cable

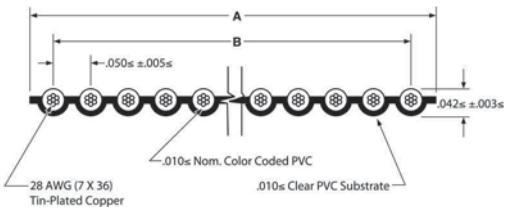
9R280XX Series (0.050 in. Pitch, 28 AWG, Color-coded PVC)

BELDEN

Belden's 0.050 in. pitch, color-coded PVC flat cable allows for quick identification and circuit tracing, along with easy breakouts for circuit routing. Designed for mass-termination with standard IDC connectors, the cable is constructed of stranded 28 AWG (7x36) tinned copper conductors, color-coded PVC pre-insulated singles - laminated to a single clear PVC substrate. Fourteen various conductor counts are standard; other sizes are available upon request. The cable is UL approved (CSA available upon request) and passes the VW-1 Vertical Wire Flame Test.

Color Code: Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White, Black. Sequence is repeated as necessary.

Application: Internal interconnection or internal wiring of electrical equipment.



SPECIFICATIONS

1. CONDUCTOR: 28 AWG (7x36) tinned copper
2. INSULATION: 0.010 in. nom. wall color-coded PVC
3. SUBSTRATE: 0.010 in. nom. wall clear PVC
4. PITCH: 0.050 in. ± 0.005 in.
5. TEMPERATURE RATING: -20°C to 105°C
6. FLAMMABILITY RATING: UL: VW-1
7. UL APPROVAL FILE: E12663, AWM Style 2884
8. CSA APPROVAL: Available upon request
9. VOLTAGE RATING: 300 V
10. CURRENT RATING: 1 A per conductor
11. CONDUCTOR RESISTANCE: 68.2 ohms/1,000 ft.
12. INSULATION RESISTANCE: $>1 \times 10^{10}$ 10 ohms 10 ft. (3 m)
13. IMPEDANCE*: 105 ohms
14. CAPACITANCE*: (@ 1 MHz) 15 pF/ft. (49 pF/m)
15. INDUCTANCE*: (@ 1 MHz) 0.20 μH/ft. (0.66 μH/m)
16. PROPOGATION DELAY*: 1.40 ns/ft. (4.6 ns/m)

*Test Configuration: G-S-G (ground-signal-ground)

Anixter No.	No. of Conductors	Width "A"	Span "B"
B9R28010-100	10	0.50	0.45 ±0.007
B9R28014-100	14	0.70	0.65 ±0.007
B9R28016-100	16	0.80	0.75 ±0.011
B9R28020-100	20	1.00	0.95 ±0.011
B9R28025-100	25	1.25	1.20 ±0.011
B9R28026-100	26	1.30	1.25 ±0.011
B9R28034-100	34	1.70	1.65 ±0.011
B9R28037-100	37	1.85	1.80 ±0.015
B9R28040-100	40	2.00	1.95 ±0.015
B9R28050-100	50	2.50	2.45 ±0.015
B9R28060-100	60	3.00	2.95 ±0.015
B9R28064-100	64	3.20	3.15 ±0.020

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Flat Ribbon Cable

9V280XX Series (0.050 in. Pitch, 28 AWG, PVC)

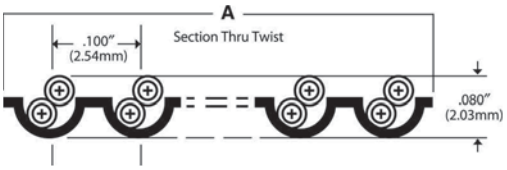
BELDEN

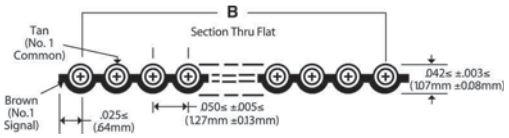
Belden's PVC Vari-Twist 9V280XX series was designed to reduce crosstalk in the balanced mode by twisting the pairs, but can be mass-terminated in the programmed flat sections with any standard IDC connector. To further reduce crosstalk, each adjacent pair is twisted in the opposite direction. The standard twist length is 18 inches followed by a 2 inch flat section of 0.050 in. spaced conductors. The cable consists of stranded 28 AWG (7x36) tinned copper, color-coded PVC pre-insulated singles - laminated to a single clear PVC substrate. Eleven various conductor/pair counts are standard; other sizes are available upon request. The cable is UL approved (CSA available upon request) and passes the VW-1 Vertical Wire Flame Test.

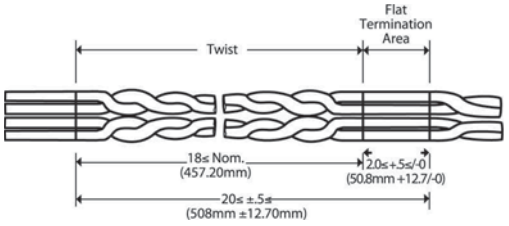
Upon your request, Vari-Twist can also be manufactured to your own specific requirements whether that be longer or shorter twist sections and/or flat sections.

Color Code: Each pair consists of a Tan conductor paired with a color-coded conductor. Color sequence each terminating section: Brown/Tan, Red/Tan, Orange/Tan, Yellow/Tan, Green/Tan, Blue/Tan, Purple/Tan, Gray/Tan, White/Tan, Black/Tan. Sequence is repeated as necessary.

Application: Internal interconnection or internal wiring of electronic equipment.







SPECIFICATIONS

1. CONDUCTOR: 28 AWG (7x36) tinned copper
2. INSULATION: 0.010 in. nom. wall color-coded PVC
3. SUBSTRATE 0.010 in. nom. wall clear PVC
4. PITCH: 0.050 in. ± 0.005 in.
5. TWISTED PAIR CENTERS: 0.100 in. nom.
6. CONDUCTOR CENTERS IN FLAT: 0.050 in. ± 0.005 in.
7. PAIRS: 1/2 in. nom. lay, adjacent pairs have opposite direction lay
8. CONSTRUCTION: 18 in. of twisted pairs, 2 in. of flat section
9. TEMPERATURE RATING: -20°C to 105°C
10. FLAMMABILITY RATING: UL VW-1
11. UL APPROVAL FILE: E12683, AWM Style dual rated 2693 and 2697
12. CSA APPROVAL: Available upon request
13. PACKAGING: H100
14. VOLTAGE RATING: 300 V
15. CURRENT RATING: 1 A per conductor
16. CONDUCTOR RESISTANCE: 68.2 ohm/1,000 ft.
17. INSULATION RESISTANCE: $>1 \times 10^{10}$ 10 ohms 10 ft. (3 m)
18. IMPEDANCE (BALANCED): 115 ohms
19. IMPEDANCE* (UNBALANCED): 100 ohms
20. CAPACITANCE*: (@ 1 MHz) 16 pF/ft. (52 pF/m)
21. INDUCTANCE*: (@ 1 MHz) 0.24 μH/ft. (0.79 μH/m)
22. PROPAGATION DELAY*: 1.60 ns/ft. (5.25 ns/m)

*Test Configuration: G-S (ground-signal), unbalanced.

Anixter No.	No. of Pairs	Width "A"	Span "B"
B9V28010-100	5	0.50	0.45 ±0.012
B9V28014-100	7	0.70	0.65 ±0.012
B9V28016-100	8	0.80	0.75 ±0.012
B9V28026-100	13	1.30	1.25 ±0.015
B9V28034-100	17	1.70	1.65 ±0.015
B9V28050-100	25	2.50	2.45 ±0.017
B9V28064-100	32	3.20	3.15 ±0.020

Belden Color Code charts are available on pages 16.15–17 in the Technical Information section.

Performance as Tough as Your Application

AlphaWire
Cables you trust. Service you deserve.

Hazard-Matched Xtra-Guard® Cable Solves the Biggest Challenges in the Toughest Environments

There Is an Xtra-Guard Cable for Every Application Hazard

No matter what extremes your application faces, you'll find an Xtra-Guard cable that excels in meeting your requirements for performance and reliability. Downtime is costly—whether caused by a complete cable failure or from the little glitches that occur when a cable doesn't live up to the demands of the application.

Xtra-Guard 1 – High Performance
High performance in a tough PVC cable

Xtra-Guard 2 – Oil and Abrasion Resistant
Exceptional abrasion resistant to withstand mechanical abuse

Xtra-Guard 3 – Direct Burial
Direct burial—no conduit needed

Xtra-Guard 4 – Advanced Temperature and Chemical Performance
Extreme temperature handles hot, cold, spills

Xtra-Guard 5 – Maximum Chemical and Temperature Performance
Chemical and temperature resistant to withstand the most hazardous environments

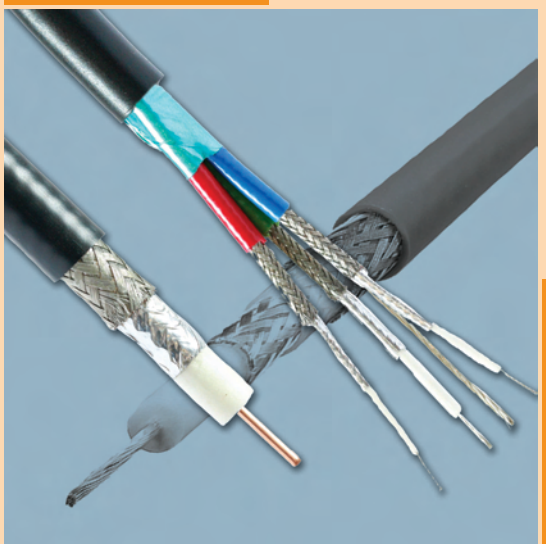
Xtra-Guard Flex
For high-flex, high torsional, and continuous-flex applications

No Noise Is Good News
Xtra-Guard cables are available shielded or unshielded. For superior EMI performance, our patented Supra-Shield® high performance shielding system gives superior immunity to noise over a broad frequency range.

Xtra-Guard	Application							
	High Temp	Low Temp	UV	Oil/Water/ Chemical	Abrasion	Direct Burial	EMI Protection with Supra-Shield	High Flex/ Continuous Flex
Xtra-Guard 1	●○○	●○○	●●○	●○○	●○○	NR	●●●	NR
Xtra-Guard 2	●○○	●○○	●●○	●●○	●●●	NR	●●●	NR
Xtra-Guard 3	●○○	●○○	●●○	●●○	●○○	●●●	●●●	NR
Xtra-Guard 4	●●○	●●○	●●○	●●○	●○○	●○○	●●●	NR
Xtra-Guard 5	●●●	●●●	●●●	●●●	●●○	●●○	●●●	NR
Xtra-Guard Flex	●○○	●○○	●○○	●○○ – ●●○	●○○ – ●●○	NR	●●●	●●○ – ●●●

●○○ = Good; ●●○ = Very Good; ●●● = Excellent; NR = Not Recommended

4



Coaxial Cable

ANDREW
A CommScope Company

BELDEN

CCI
Coleman Cable Inc.

COMMSCOPE®

General Cable

Harbour
INDUSTRIES
High Performance Wire & Cable

TAPPAN
Wire & Cable Inc.

Thermax

TIMES
MICROWAVE SYSTEMS

Coaxial Cable Introduction

Coaxial Cable Introduction

A cylindrical transmission line comprised of a conductor centered inside a metallic tube or shield, separated by a dielectric (insulation) material and usually covered by an insulating jacket. These cables, originally developed for military use as Radio Guide (RG) cables have wide application in the transmission of video, voice, high-speed digital and high-frequency analog signals. Although some applications are still for military equipment and made to a MIL-Spec standard (M17) most current applications are for commercial use. For identification purposes many coaxial cables still use the "RG" designation followed by a number, this number may refer to a conductor size or the characteristic impedance. Some products carry an NEC rating, some are made to military specifications and some are designed for specific commercial applications and may not carry a specific rating.

SPECIFICATIONS

Presented within this catalog section are coaxial cables grouped in eight major application categories widely used today.

MAJOR COAXIAL CABLE TYPES:

CCTV / CLOSED CIRCUIT TELEVISION: Widely used for video transmission in security systems

BROADBAND / CATV / MATV: Used for either a trunk or drop cable for most CATV (cable TV) systems

BROADCAST / VIDEO: Used in all broadcast video applications

COMPUTER: Traditional types adapted for signal transmission in OEM and other equipment and systems

WIRELESS: Specialty coax used for wireless transmission tower signals (microwave, Cellwave)

CENTRAL OFFICE: Coaxial cables usually bundled and used to interconnect DS 3/4 transmission equipment with digital cross connects in the telecommunications sector

INDUSTRIAL AUTOMATION: Coaxial cable designed for use on the factory floor including industrial Ethernet and twinax, (sometimes known as non-coax cable)

MIL-SPEC COAX: The original coaxial cable designed and updated for modern military equipment; specifications still active for new design equipment may require stringent test requirements and can only be procured from QPL (qualified products list) manufacturers and made to MIL-DTL-17 specification (formerly MIL-C-17), many of the products available in the groups above are commercial versions of these cables.

Note: Descriptions listed in this catalog may be abbreviated for space considerations. Please contact your local sales representative for more detailed technical information.

Coaxial Cable Component Abbreviation Construction Table

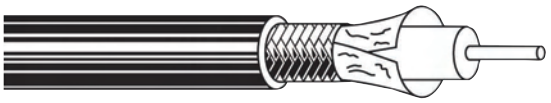
Conductor and Shielding Material	
AL	Aluminum
BC	Bare Copper
BCC	Bare Compacted Copper
CCA	Bare Copper Covered Aluminum
CCS	Bare Copper Covered Steel
CG	CoreGuard Flooring Compound
CT Comp	Copper Tin Composite
GS	Galvanized Steel
HR	High Resistance Wire
MW	Magnet Wire Helix
MY	Mylar
NC	Nickel Coated Copper
QUAD	Two Braids / Two Foils Composite
SCBeCu	Silver Covered Beryllium Copper Alloy
SCCadBr	Silver Coated Cadmium Bronze
SCCAl	Silver Coated Copper Covered Aluminum
SCC	Silver Coated / Plated Copper
SCCS	Silver Coated / Plated Copper Covered Steel
SNCCS	Silver Coated Nickel Covered Copper Clad Steel
SSC	Silver Covered Strip
TC	Tinned Copper
TCB	Tinned Cadmium Bronze
TC / BC	One Conductor Tinned Copper / One Conductor Bare Copper
TCCS	Tinned Copper Covered Steel

Dielectric / Insulation Material	
ASPE	Air Space Polyethylene
CPE	Conductive Polyethylene
ETFE	Ethylene Tetrafluoroethylene Copolymer
FHDPE	Foamed High-density Polyethylene
FEP	Fluorinated Ethylene Propylene (Solid)
FFEP	Foamed / Cellular Fluorinated Ethylene Propylene
FPE	Foamed / Cellular Polyethylene
FPO	Foamed Polyolefin
FRFPE	Flame-retardant-foamed Polyethylene
LDTFE	Low-density Polytetrafluorethylene (TFE)
PE	Polyethylene (Solid)
PP	Polypropylene
PS	Polystyrene
Rubber	Rubber
TFE	Polytetrafluoroethylene
XLETFE	Cross-linked ETFE

Jacket Material	
ETFE	Ethylene Tetrafluoroethylene Copolymer
FEP	Fluorinated Ethylene Propylene (Solid)
FG BRD	Fiberglass braid
FRPVC	Flame-retardant Polyvinyl Chloride - Plenum Rated
HDPE	High-density Polyethylene
HFPVC	Halogen-free Polyvinyl Chloride
HYP	Hypalon / CSPE
HMPE	High Molecular Weight Polyethylene
NCPVC	Non-contaminating Polyvinyl Chloride
PE	Polyethylene (Solid)
PFA	Perfluoroalkoxy
TFE	Polyterafluoroethylene
PVC	Polyvinyl Chloride
PVCFX	Flexible Polyvinyl Chloride
PVDF	Polyvinylidene Fluoride / Kynar
PUR	Polyurethane
Rubber	Rubber
TPE	Thermo-plastic Elastomer
UVPE	Ultra-violet Resistant Polyethylene
UVPVC	Ultra-violet Resistant Polyvinyl Chloride
XLPE	Cross-linked Polyolefin
XLETFE	Cross-linked ETFE

Broadband CATV/MATV

Broadband/CATV/MATV



Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
B8281	Belden	RG59	1/0.031/ 20/BC	PE/ 0.198	98% TC Double Braid	PE/BLK/ 0.305	75	-----	74	+ Colors
B9100	Belden	RG59	1/0.032/ 20/CCS	FPE/ 0.144	Foil + 40% AL Braid	PVC/BLK/ 0.237	75	CM, CATV	24	Also Available In White
B9110	Belden	RG59	1/0.032/ 20/CCS	FPE/ 0.144	Duobond + 67% AL Braid	PVC/BLK/ 0.242	75	CM	24	-----
B9167	Belden	RG59	1/0.032/ 20/SCC	FPE/ 0.145	Foil + 95% AL Braid	PVC/BLK/ 0.242	75	CMR	27	+ Colors
B9275	Belden	RG59	1/0.032/ 20/CCS	FPE/ 0.144	Foil + 40% AL Braid	PVC/BLK/ 0.237	75	CM, CATV	24	-----
B82108	Belden	RG59	1/0.032/ 20/CCS	FFEP/ 0.140	Foil + 96% TC Braid	FR-PVC/WHT/ 0.202	75	CMP	32	-----
B89108	Belden	RG59	1/0.032/ 20/CCS	FFEP/ 0.140	Foil + 96% TC Braid	FEP/BLK/ 0.203	75	CMP	34	-----
B1151A	Belden	RG59	1/0.032/ 20/CCS	FFEP/ 0.140	Quad	FEP/WHT/ 0.236	75	CMP	40	-----
B1186A	Belden	RG59	1/0.032/ 20/CCS	FPE/ 0.144	Quad	PVC/BLK/ 0.265	75	CM	33	-----
B1505A	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	Foil + 95% TC Braid	PVC/BLK/ 0.233	75	CMR	35	+ Colors
B1505F	Belden	RG59	7/0.031/ 22/BC	FHDPE/ 0.145	94% TC Braid	PVC/BLK/ 0.242	75	CM	45	+ Colors
B8281B	Belden	RG59	1/0.031/ 20/BC	FRFPE/ 0.198	98% TC Double Braid	PVC/BLK/ 0.305	75	CMR	84	+ Colors
B8281F	Belden	RG59	7/0.031/ 22/BC	PE/ 0.193	98% TC Double Braid	PVC/BLK/ 0.304	75	-----	68	+ Colors
B9104N	Belden	RG59	1/0.032/ 20/CCS	FPE/ 0.144	Foil + 67% AL Braid	PVC/BLK/ 0.237	75	-----	24	-----
B9104P	Belden	RG59	1/0.032/ 20/CCS	FFEP/ 0.140	Foil + 60% AL Braid	FR-PVC/WHT/ 0.203	75	CMP	24	-----
B1855A	Belden	RG59	1/0.023/ 23/BC	FHDPE/ 0.102	Foil + 95% TC Braid	PVC/BLK/ 0.159	75	CMR	17	+ Colors
B9011	Belden	RG11	1/0.064/ 14/CCS	FPE/ 0.280	Foil + 40% AL Braid	PVC/BLK/ 0.400	75	-----	70	-----
B9064	Belden	RG11	1/0.064/ 14/CCS	FPE/ 0.280	Foil + 77% AL Braid	PVC/BLK/ 0.400	75	CM	65	-----
B9764	Belden	RG11	1/0.064/ 14/CCS	FPE/ 0.280	Foil + 77% AL Braid + CG	PE/BLK/ 0.400	75	-----	32	+ Colors Burial
B1153A	Belden	RG11	1/0.064/ 14/CCS	FFEP/ 0.280	Quad	FEP/WHT/ 0.387	75	CMP	106	-----
B1523A	Belden	RG11	1/0.064/ 14/CCS	FPE/ 0.280	Foil + 60% AL Braid	PVC/BLK/ 0.400	75	CM	66	-----
B1523AN	Belden	RG11	1/0.064/ 14/CCS	FPE/ 0.280	Foil + 60% AL Braid	PVC/BLK/ 0.400	75	-----	66	-----
B1523AP	Belden	RG11	1/0.064/ 14/CCS	FFEP/ 0.274	Foil + 60% AL Braid	PVDF/BLK/ 0.348	75	CMP	62	-----

Broadband CATV/MATV

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
B1523R	Belden	RG11	1/0.064/ 14/CCS	FPE/ 0.280	Foil + 60% AL Braid	PVC/BLK/ 0.400	75	CMR	70	-----
B1524AM	Belden	RG11	1/0.064/ 14/CCS	FPE/ 0.280	Foil + 60% AL Braid	PVC/BLK/ 0.400 x 0.580	75	-----	94	With Messenger
B1525A	Belden	RG11	1/0.064/14/CCS	FPE/ 0.280	Foil + 60% AL Braid + CG	PE/BLK/ 0.400	75	-----	60	Direct Burial
B1617A	Belden	RG11	1/0.064/ 14/CCS	FPE/ 0.280	Quad	PVC/BLK/ 0.407	75	CM	67	-----
B1618A	Belden	RG11	1/0.064/ 14/CCS	FPE/ 0.280	Quad + CG	PE/BLK/ 0.407	75	-----	59	Direct Burial
B1619AM	Belden	RG11	1/0.064/ 14/CCS	FPE/ 0.280	Quad	PVC/BLK/ 0.407 x 0.560	75	-----	85	With Messenger
B1620AM	Belden	RG11	1/0.064/ 14/CCS	FPE/0.280	Quad + CG	PVC/BLK/ 0.407 x 0.560	75	-----	86	With Messenger
B6139B8	Belden	RG11	1/0.064/ 14/BC	FFEP/ 0.274	Foil + 60% AL Braid	PVC/BLK/ 0.348	75	CMP	66	-----
B9065M	Belden	RG11	1/0.064/ 14/CCS	FPE/ 0.280	Foil + 77% AL Braid	PVC/BLK/ 0.400 x 0.580	75	-----	86	With Messenger
B7999A	Belden	RG11	1/0.064/ 14/BCCS	FPE/ 0.280	Quad	PVDF/BLK/ 0.407	75	CM	67	-----
B7999AP	Belden	RG11	1/0.064/ 14/BCCS	FFEP/ 0.274	Quad	PVDF/BLK/ 0.372	75	CMP	69	Coax
B9058	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 80% AL Braid	PVC/BLK/ 0.275	75	CM	31	-----
B9062	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 77% AL Braid + CG	PE/BLK/ 0.275	75	-----	27	Direct Burial
B9066	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 60% AL Braid + CG	PE/BLK/ 0.270	75	-----	27	Direct Burial
B9116	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 60% AL Braid	PVC/BLK/ 0.270	75	CM	30	+ Colors
B82120	Belden	RG6	1/0.040/ 18/CCS	FFEP/ 0.170	Foil + 95% TC Braid	FR-PVC/WHT/ 0.234	75	CMP	44	-----
B89120	Belden	RG6	1/0.040/ 18/CCS	FFEP/ 0.170	Foil + 95% TC Braid	FEP/BLK/ 0.234	75	CMP	46	-----
B633938	Belden	RG6	1/0.040/ 18/BC	FFEP/ 0.170	Foil + 90% AL Braid	PVC/BLK/ 0.233	75	CMP	29	-----
B1152A	Belden	RG6	1/0.040/ 18/CCS	FFEP/ 0.170	Quad	FEP/WHT/ 0.273	75	CMP	53	-----
B1189A	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Quad	PVC/BLK/ 0.298	75	CM	31	+ Colors
B1189AP	Belden	RG6	1/0.040/ 18/CCS	FFEP/ 0.170	Quad	FR-PVC/WHT/ 0.248	75	CMP	32	-----
B1190A	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Quad + CG	PE/BLK/ 0.298	75	-----	31	Direct Burial
B1191AM	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Quad	PVC/BLK/ 0.298 x 0.433	75	-----	47	With Messenger
B1258AM	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 60% AL Braid + CG	PVC/BLK/ 0.270 x 0.410	75	-----	42	With Messenger
B1260AM	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 77% AL Braid + CG	PVC/BLK/ 0.275 x 0.416	75	-----	44	With Messenger
B1530A	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 90% AL Braid	PVC/BLK/ 0.270	75	CM	31	-----
B1530AP	Belden	RG6	1/0.040/ 18/CCS	FFEP/ 0.170	Foil + 90% AL Braid	FR-PVC/WHT/ 0.235	75	CMP	31	-----

Continued on next page > >

Broadband CATV/MATV

(continued) Broadband/CATV/MATV

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
B1531AM	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 90% AL Braid	PVC/BLK/ 0.270 x 0.410	75	-----	45	With Messenger
B1532A	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 90% AL Braid + CG	PE/BLK/ 0.270	75	-----	27	Direct Burial
B1545A	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 60% AL Braid + CG	PVC/BLK/ 0.270	75	CM	31	-----
B1546A	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Tri-Shield 60% + CG	PVC/BLK/ 0.275	75	CM	33	-----
B1613A	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Tri-Shield 80%	PVC/BLK/ 0.275	75	CM	30	-----
B1614A	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Tri-Shield 80% + CG	PE/BLK/ 0.275	75	-----	26	Also Orange
B1615AM	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 77% AL Braid	PVC/BLK/ 0.275 x 0.416	75	-----	44	With Messenger
B1616AM	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 77% AL Braid + CG	PVC/BLK/ 0.275 x 0.416	75	-----	45	With Messenger
B1829A	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 60% AL Braid	PVC/BLK/ 0.270	75	CM	30	+ Colors
B1829AC	Belden	RG6	1/0.040/ 18/BC	FPE/ 0.180	Foil + 60% AL Braid	PVC/BLK/ 0.270	75	CM	31	+ Colors
B1829B	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 60% AL Braid + CG	PE/BLK/ 0.270	75	-----	27	Direct Burial
B1829BC	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 60% AL Braid + CG	PE/BLK/ 0.270	75	-----	27	Direct Burial
B1837A	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Tri-Shield 60% + CG	PE/BLK/ 0.275	75	-----	26	Direct Burial
B1839A	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 60% AL Braid	PVC/BLK/ 0.270 x 0.405	75	-----	44	With Messenger
B1839AC	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 60% AL Braid	PVC/BLK/ 0.270 x 0.405	75	-----	45	With Messenger
B5339B5	Belden	RG6	1/0.040/ 18/BC	FPE/ 0.180	Foil + 60% AL Braid	PVC/BLK/ 0.266	75	CM	29	-----
B5339Q5	Belden	RG6	1/0.040/ 18/BC	FPE/ 0.180	Quad	PVC/BLK/ 0.298	75	CM	34	-----
B6339Q8	Belden	RG6	1/0.040/ 18/CCS	FFEP/ 0.170	Quad	FR-PVC/WHT/ 0.248	75	CMP	28	-----
B9116P	Belden	RG6	1/0.040/ 18/CCS	FFEP/ 0.170	Foil + 60% AL Braid	FR-PVC/WHT/ 0.235	75	CMP	27	-----
B9116R-02ER	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 60% AL Braid	PVC/BLK/ 0.270	75	CMR	32	-----
B9117	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 60% AL Braid	PVC/BLK/ 0.270 x 0.410	75	-----	44	With Messenger
B9118	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Tri-Shield 60%	PVC/BLK/ 0.275	75	CM	32	-----
B9119M	Belden	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Tri-Shield 60%	PVC/BLK/ 0.275 x 0.416	75	-----	45	With Messenger
B1694A	Belden	RG6	1/0.040/ 18/BC	FHDPE/ 0.180	Foil + 95% TC Braid	PVC/BLK/ 0.274	75	CMR	45	+ Colors SDI/HDTV
B1322R	Belden	RG6	1/0.040/ 18/BCCS	FPE/ 0.180	Quad	PVC/BLK/ 0.298	75	CMR	35	-----
B9077	Belden	RG6 DUAL	2x1/0.040/ 18/CCS	FPE/ 0.180	Foil + 60% AL Braid	PVC/BLK/ 0.270 x 0.590	75	CM	61	Dual Coax

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Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
B1840A	Belden	RG6 DUAL	2x1/0.040/ 18/CCS	FPE/ 0.180	Foil + 60% AL Braid	PVC/BLK/ 0.273 x 0.703	75	-----	74	With Messenger
B1840AC	Belden	RG6 DUAL	2x1/0.040/ 18/CCS	FPE/ 0.180	Foil + 60% AL Braid	PVC/BLK/ 0.274 x 0.703	75	-----	74	With Messenger + Colors
B1841A	Belden	RG6 DUAL	2x1/0.040/ 18/CCS	FPE/ 0.180	Foil + 60% AL Braid	PVC/BLK/ 0.273 x 0.595	75	CM	66	-----
B1841AC	Belden	RG6 DUAL	2x1/0.040/ 18/CCS	FPE/ 0.180	Foil + 60% AL Braid	PVC/BLK/ 0.273 x 0.595	75	CM	66	+ Colors
B1843A	Belden	RG6 DUAL	2x1/0.040/ 18/CCS	FPE/ 0.180	Foil + 60% AL Braid + CG	PE/BLK/ 0.273 x 0.750	75	-----	64	With Messenger
CS2039V	CommScope	RG59	1/0.032/ 20/BC	FFEP/ 0.135	95% BC Braid	FR-PVC/WHT/ 0.193	75	CMP	29	-----
CS5553	CommScope	RG59	1/0.032/ 20/BC	FPE/ 0.144	95% BC Braid	PVC/BLK/ 0.242	75	CM	33	-----
CS2285K	CommScope	RG11	1/0.064/ 14/CCS	FFEP/ 0.280	Foil + 60% AL Braid	PVDF/CRM/ 0.350	75	CMP	60	CEC CMP
CS2287K	CommScope	RG11	1/0.064/ 14/CCS	FFEP/ 0.280	Quad	PVDF/CRM/ 0.373	75	CMP	76	-----
CS5904	CommScope	RG11	1/0.064/ 14/BC	FPE/ 0.285	93% BC Braid	PVC/BLK/ 0.395	75	CM	83	-----
CS5910	CommScope	RG11	1/0.064/ 14/CCS	FPE/ 0.280	Foil + 60% AL Braid	PVC/BLK/ 0.405	75	CM	78	-----
CS5915	CommScope	RG11	1/0.064/ 14/CCS	FPE/ 0.280	Foil + 90% AL Braid	PVC/BLK/ 0.405	75	CM	79	-----
CS5940	CommScope	RG11	1/0.064/ 14/CCS	FPE/ 0.280	Quad	PVC/BLK/ 0.405	75	CM	78	-----
CS0132V	CommScope	RG6	1/0.040/ 18/CCS	FFEP/ 0.170	Foil + 60% AL Braid	FR-PVC/BLK/ 0.239	75	CMP	28	-----
CS2227V	CommScope	RG6	1/0.040/ 18/CCS	FFEP/ 0.170	Quad	FR-PVC/WHT/ 0.260	75	CMP	42	-----
CS2277V	CommScope	RG6	1/0.040/ 18/BC	FFEP/ 0.170	95% BC Braid	FR-PVC/WHT/ 0.237	75	CMP	40	-----
CS2275V	CommScope	RG6	1/0.040/ 18/CCS	FFEP/ 0.170	Foil + 60% AL Braid	FR-PVC/WHT/ 0.237	75	CMP	29	-----
CS2276V	CommScope	RG6	1/0.040/ 18/CCS	FFEP/ 0.170	Foil + 90% AL Braid	FR-PVC/WHT/ 0.237	75	CMP	36	-----
CS2227K	CommScope	RG6	1/0.040/ 18/CCS	FFEP/ 0.170	Quad	PVDF/CRM/ 0.260	75	CMP	42	-----
CS2279V	CommScope	RG6	1/0.040/ 18/CCS	FFEP/ 0.170	Foil + 95% TC Braid	FR-PVC/WHT/ 0.237	75	CMP	44	-----
CS5060	CommScope	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Quad	FR-PVC/BLK/ 0.300	75	CMG	42	-----
CS5726R	CommScope	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 40% AL Braid	PVC/BLK/ 0.272	75	CM	29	-----
CS5726	CommScope	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 40% AL Braid	PVC/BLK/ 0.272	75	CM	29	-----
CS5727	CommScope	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 90% AL Braid	PVC/BLK/ 0.272	75	CM	32	-----
CS5728	CommScope	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 60% AL Braid	PE/BLK/ 0.272	75	-----	34	Direct Burial
CS5729	CommScope	RG6	1/0.040/ 18/BC	FPE/ 0.180	Foil + 60% AL Braid	PVC/BLK/ 0.272	75	CM	36	+ Colors
CS5730R	CommScope	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 60% AL Braid	PVC/BLK/ 0.272	75	CM	32	+ Colors

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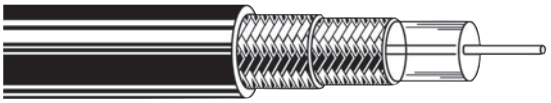
Broadband CATV/MATV

(continued) Broadband/CATV/MATV

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
CS5740	CommScope	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Quad	PVC/BLK/ 0.300	75	CM	44	-----
CS5740R	CommScope	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Quad	PVC/BLK/ 0.300	75	CMR	44	-----
CS5741	CommScope	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Quad	PVC/BLK/ 0.300	75	CM	44	-----
CS5788	CommScope	RG6 DUAL	2x1/0.040/1 8/CCS	FPE/ 0.180	Foil + 60% AL Braid	PVC/BLK/ 0.272 x 0.730	75	CM	80	Dual With Ground
CS2312	CommScope	TRUNK	1/0.109/ 10/CCA	FFEP/ 0.450	AL Sheath	PVDF/CRM/ 0.524	75	CMP	100	75 Ohm Trunk
WP25821	West Penn	RG11	1/0.064/ 14/CCS	FFEP/ 0.280	Foil + 65% AL Braid	PVDF/WHT/ 0.352	75	CL2P	43	-----
WP25841	West Penn	RG6	1/0.040/1 8/CCS	FFEP/ 0.170	Foil + 77% AL Braid	FR-PVC/WHT/ 0.235	75	CMP, CATV	26	-----
WP841	West Penn	RG6	1/0.040/ 18/CCS	FPE/ 0.180	Foil + 65% AL Braid	PVC/BLK/ 0.244	75	CL2	26	-----
WP821	West Penn	RG11	1/0.064/ 14/BC	FPE/ 0.280	Foil + 65% AL Braid	PVC/BLK/ 0.380	75	CL2	42	-----

Broadcast/Video

Broadcast/Video



Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
B179DT	Belden	RG179	1/0.012/ 28.5/BC	FHDPE/ 0.056	Foil + 95% TC Braid	PVC/BLK/ 0.100	75	CMR	9	HDTV/SDI Sub-miniature
B9239	Belden	RG174	7/0.019/ 26/CCS	PE/0.044/ PVC/0.056	90% TC Braid	PVC/BLK/ 0.101	50	-----	8	Low Triboelectric Noise
B8212	Belden	RG59	1/0.032/ 20/CCS	FPE/ 0.143	95% BC Braid	PE/BLK/ 0.242	75	-----	33	-----
B8221	Belden	RG59	1/0.025/ 22/CCS	FPE/ 0.146	95% BC Braid	PVC/BLK/ 0.242	80	-----	37	-----
B8232	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	2-95% BC Braids	PE/BLK/ 0.315	75	-----	60	Triax
B8241	Belden	RG59	1/0.023/ 23/CCS	PE/ 0.146	95% BC Braid	PVC/BLK/ 0.240	75	CM	40	+ Colors
B8263	Belden	RG59	1/0.023/ 23/CCS	PE/ 0.146	95% BC Braid	NC-PVC/BLK/ 0.242	75	CMX	39	-----
B8279	Belden	RG59	7/0.023/ 23/BC	PE/ 0.146	95% TC Braid	PE/BLK/ 0.220	75	-----	29	-----
B9141	Belden	RG59	1/0.031/ 20/BC	PE/ 0.200	98% TC Double Braid	PE/CLR/ 0.305	75	-----	73	-----
B9165	Belden	RG59	7/0.030/ 22/BC	FPE/ 0.146	95% BC Braid	PVC/BLK/ 0.242	75	CL2X	94	With 22 AWG - 3 Pair OD 0.290 X 0.561
B9209	Belden	RG59	1/0.022/ 23/BC	PE/ 0.146	Foil + 95% TC Braid	PE/BLK/ 0.220	75	-----	29	-----
B9231	Belden	RG59	1/0.031/ 20/BC	PE/ 0.198	98% TC Double Braid	NC-PVC/GRY/ 0.305	75	CMH	76	-----
B9240	Belden	RG59	1/0.032/ 20/BC	FPE/ 0.143	80% BC Braid	PVC/BLK/ 0.241	75	-----	31	-----
B9244	Belden	RG59	1/0.025/ 22/CCS	PE/ 0.146	85% BC Braid	PVC/BLK/ 0.242	75	CMX	36	-----
B9259	Belden	RG59	7/0.030/ 22/BC	FPE/ 0.146	95% BC Braid	PVC/BLK/ 0.241	75	CM	37	-----
B9267	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	2-95% BC Braids	CSPE/BLK/ 0.360	75	-----	77	Triax
B9274	Belden	RG59	1/0.032/ 20/CCS	FPE/ 0.143	95% BC Braid	PVC/BLK/ 0.240	75	CM	35	-----
B9659	Belden	RG59	7/0.030/ 22/BC	FPE/ 0.146	95% BC Braid	NC-PVC/BLK/ 0.242	75	CMX	38	-----
B82241	Belden	RG59	1/0.023/ 23/CCS	FEP/ 0.134	97% BC Braid	FR-PVC/WHT/ 0.190	75	CMP	34	-----
B82259	Belden	RG59	7/0.030/ 22/BC	FFEP/ 0.135	95% BC Braid	FR-PVC/WHT/ 0.193	75	CMP	30	-----
B88232	Belden	RG59	1/0.032/ 20/BC	FFEP/ 0.140	2-95% BC Braids	FEP/BLK/ 0.245	75	CMP	62	Triax
B88241	Belden	RG59	1/0.023/ 23/CCS	FEP/ 0.132	97% BC Braid	FEP/BLK/ 0.190	75	CMP	36	-----
B88281	Belden	RG59	1/0.032/ 20/BC	FEP/ 0.185	98% TC Double Braid	PVDF/BLK/ 0.271	75	CMP	86	-----

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Broadcast/Video

(continued) Broadcast/Video

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
B89259	Belden	RG59	7/0.030/ 22/BC	FFEP/ 0.135	95% BC Braid	FEP/BLK/ 0.193	75	CMP	32	-----
B1856A	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	2-95% BC Braids	PVCFX/BLK/ 0.360	75	-----	83	Triax + Colors
B1856B	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	2-95% BC Braids	PVCFX/BLK/ 0.360	75	CMR	86	Triax + Colors
B1857A	Belden	RG59	19/0.031/ 22/BC	FPE/ 0.143	2-95% BC Braids	PVCFX/BLK/ 0.360	75	-----	86	Triax + Colors
B1865A	Belden	RG59	19/0.021/ 25/BC	FHDPE/ 0.094	Foil + 95% TC Braid	PVC/BLK/ 0.150	75	CMR	14	+ Colors
B7787A	Belden	RG59	1/0.023/ 23/BC	FHDPE/ 0.102	Foil + 95% TC Braid	PVC/BLK/ 0.432	75	CMR	94	3C Miniature
B7788A	Belden	RG59	1/0.023/ 23/BC	FHDPE/ 0.102	Foil + 95% TC Braid	PVC/BLK/ 0.481	75	CMR	110	4C Miniature
B7789A	Belden	RG59	1/0.023/ 23/BC	FHDPE/ 0.102	Foil + 95% TC Braid	PVC/BLK/ 0.539	75	CMR	146	5C Miniature
B7790A	Belden	RG59	1/0.023/ 23/BC	FHDPE/ 0.102	Foil + 95% TC Braid	PVC/BLK/ 0.597	75	CMR	178	6C Miniature
B7791A	Belden	RG59	1/0.023/ 23/BC	FHDPE/ 0.102	Foil + 95% TC Braid	PVC/BLK/ 0.796	75	CMR	321	10C Miniature
B7792A	Belden	RG59	1/0.023/ 23/BC	FHDPE/ 0.102	Foil + 95% TC Braid	PVC/BLK/ 0.825	75	CMR	352	12C Miniature
B7794A	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	Foil + 95% TC Braid	PVC/BLK/ 0.631	75	CMR	187	3C RG59
B7795A	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	Foil + 95% TC Braid	PVC/BLK/ 0.706	75	CMR	230	4C RG59
B7796A	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	Foil + 95% TC Braid	PVC/BLK/ 0.790	75	CMR	299	5C RG59
B7798A	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	Foil + 95% TC Braid	PVC/BLK/ 1.166	75	CMR	625	10C RG59
B8232A	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	2-95% BC Braids	PVC/BLK/ 0.315	75	CMR	68	Triax
B8241A	Belden	RG59	1/0.023/ 23/CCS	FRFPE/ 0.146	95% BC Braid	PVC/BLK/ 0.242	75	CMG	42	-----
B8241B	Belden	RG59	1/0.023/ 23/BC	PE/ 0.146	95% BC Braid	PVC/BLK/ 0.242	75	CM	37	-----
B8241F	Belden	RG59	7/0.030/ 22/BC	FPE/ 0.146	95% BC Braid	PVC/BLK/ 0.242	75	-----	36	+ Colors
B8281	Belden	RG59	1/0.031/ 20/BC	PE/ 0.198	98% TC Double Braid	PE/BLK/ 0.305	75	-----	74	+ Colors
B9209A	Belden	RG59	1/0.022/ 23/BC	FRFPE/ 0.146	Foil + 95% TC Braid	PVC/BLK/ 0.220	75	CMR	35	-----
B1426A	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	95% BC Braid	PVC/BLK/ 0.242	75	CM	37	-----
B1855A	Belden	RG59	1/0.023/ 23/BC	FHDPE/ 0.102	Foil + 95% TC Braid	PVC/BLK/ 0.159	75	CMR	17	+ Colors
B1855P-0	Belden	RG59	1/0.023/ 23/BC	FHDPE/ 0.102	Foil + 95% TC Braid	FR-PVC/BLK/ 0.159	75	CMP	22	+ Colors
B1855S3	Belden	RG59	1/0.023/ 23/BC	FHDPE/ 0.102	Foil + 95% TC Braid	PVC/Multi-color/ 0.159	75	CMR	57	3C Banana Peel
B1855S5	Belden	RG59	1/0.023/ 23/BC	FHDPE/ 0.102	Foil + 95% TC Braid	PVC/Multi-color/ 0.159	75	CMR	102	5C Banana Peel
B1855S6	Belden	RG59	1/0.023/ 23/BC	FHDPE/ 0.102	Foil + 95% TC Braid	PVC/Multi-color/ 0.159	75	CMR	121	6C Banana Peel

Broadcast/Video

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B1505A	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	Foil + 95% TC Braid	PVC/BLK/ 0.233	75	CMR	35	+ Colors
B1505F	Belden	RG59	7/0.031/ 22/BC	FHDPE/ 0.145	94% TC Braid	PVC/BLK/ 0.242	75	CM	45	+ Colors
B1505S3	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	Foil + 95% TC Braid	PVC/Multi-color/ 0.235	75	CMR	104	3C Banana Peel
B1505S5	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	Foil + 95% TC Braid	PVC/Multi-color/ 0.235	75	CMR	185	5C Banana Peel
B1505S6	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	Foil + 95% TC Braid	PVC/Multi-color/ 0.235	75	CMR	250	6C Banana Peel
B1506A	Belden	RG59	1/0.032/ 20/BC	FFEP/ 0.133	Foil + 95% TC Braid	FR-PVC/BLK/ 0.196	75	CMP	29	+ Colors
B8281B	Belden	RG59	1/0.031/ 20/BC	FRFPE/ 0.198	98% TC Double Braid	PVC/BLK/ 0.305	75	CMR	84	+ Colors
B8281F	Belden	RG59	7/0.031/ 22/BC	PE/ 0.193	98% TC Double Braid	PVC/BLK/ 0.304	75	-----	68	+ Colors
B9100	Belden	RG59	1/0.032/ 20/CCS	FPE/ 0.144	Foil + 40% AL Braid	PVC/BLK/ 0.237	75	CM, CATV	24	Also Available In White
B9275	Belden	RG59	1/0.032/ 20/CCS	FPE/ 0.144	Foil + 40% AL Braid	PVC/BLK/ 0.237	75	CM, CATV	24	-----
B9224	Belden	RG59	1/0.025/ 22/CCS	PE/0.146/ PVC/0.154	93% BC Braid	PVC/BLK/ 0.242	75	-----	39	Low Triboelectric Noise
B9265	Belden	RG59	7/0.030/ 22/BC	FPE/ 0.146	Foil (1 Pair)/ 95% BC Braid (Coax)	PVC/BLK/ 0.242 x 0.470	75	CL2	62	With 22 AWG - 2C OD 0.242 X 0.470
B8219	Belden	RG58	19/0.037/ 20/TC	FPE/ 0.114	93% TC Braid	PVC/BLK/ 0.194	54	CM	26	CEC CM
B82240	Belden	RG58	1/0.032/ 20/BC	FEP/ 0.107	95% TC Braid	FR-PVC/WHT/ 0.159	53	CMP	24	-----
B8240	Belden	RG58	1/0.033/ 20/BC	PE/ 0.116	95% TC Braid	PVC/BLK/ 0.193	52	CMX	26	-----
B88240	Belden	RG58	1/0.032/ 20/BC	FEP/ 0.107	95% TC Braid	FEP/BLK/ 0.159	53	CMP	24	-----
B8259	Belden	RG58	19/0.035/ 20/TC	PE/ 0.116	95% TC Braid	PVC/BLK/ 0.193	50	-----	25	-----
B9201	Belden	RG58	1/0.033/ 20/BC	PE/ 0.116	78% BC Braid	PVC/BLK/ 0.193	52	-----	23	-----
B9223	Belden	RG58	7/0.030/ 22/TC	PE/0.036/ PE/0.112	Duobond + 95% TC Braid	PVC/BLK/ 0.195	50	-----	24	Low Triboelectric Noise
B9310	Belden	RG58	1/0.033/ 20/BC	PE/ 0.114	Foil + 55% TC Braid	PVC/BLK/ 0.193	50	-----	21	-----
B9311	Belden	RG58	19/0.037/ 20/TC	FPE/ 0.114	Foil + 55% TC Braid	PVC/BLK/ 0.193	52	CM	21	-----
B8213	Belden	RG11	1/0.064/ 14/BC	FHDPE/ 0.285	97% BC Braid	PE/BLK/ 0.405	75	-----	87	-----
B8233	Belden	RG11	1/0.064/ 14/BC	FHDPE/ 0.285	2-95% BC Braids	PE/BLK/ 0.475	75	-----	119	Triax
B8238	Belden	RG11	7/0.048/ 18/TC	FPE/ 0.285	97% BC Braid	PVC/BLK/ 0.405	75	CM	117	-----
B8261	Belden	RG11	7/0.048/ 18/TC	PE/ 0.285	97% BC Braid	NC-PVC/BLK/ 0.405	75	-----	104	-----
B9192	Belden	RG11	19/0.064/ 15/BC	FPE/ 0.312	2-90% BC Braids	PVC/YEL/ 0.520	75	CL2X	147	Triax
B9232	Belden	RG11	19/0.064/ 15/BC	FHDPE/ 0.312	2-90% BC Braids	CSPE/BLK/ 0.520	75	-----	142	Triax

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Broadcast/Video

(continued) Broadcast/Video

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
B9292	Belden	RG11	1/0.064/ 14/BC	FHDPE/ 0.280	Foil + 60% TC Braid	PVC/BLK/ 0.405	75	-----	75	-----
B89292	Belden	RG11	1/0.064/ 14/BC	FFEP/ 0.274	Foil + 63% TC Braid	FEP/BLK/ 0.346	75	CMP, CATV	81	-----
B1858A	Belden	RG11	19/0.064/ 15/BC	FHDPE/ 0.312	2-95% BC Braids	PVCFX/BLK/ 0.520	75	-----	154	Triax + Colors
B1859A	Belden	RG11	19/0.064/ 15/BC	FFEP/ 0.285	2-95% BC Braids	PVDF/BLK/ 0.406	75	CMP	134	Triax
B7731A	Belden	RG11	1/0.064/ 14/BC	FHDPE/ 0.280	Foil + 95% TC Braid	PVC/BLK/ 0.400	75	CMR	95	+ Colors
B7732A	Belden	RG11	1/0.064/ 14/BC	FFEP/ 0.274	Foil + 95% TC Braid	PVDF/BLK/ 0.348	75	CMP	88	+ Colors
B7803A	Belden	RG11	1/0.064/ 14/BC	FHDPE/ 0.285	2-95% BC Braids	PE/BLK/ 0.475	75	-----	121	Triax Direct Burial
B8233A	Belden	RG11	1/0.064/ 14/BC	FHDPE/ 0.285	2-95% BC Braids	PVC/BLK/ 0.475	75	CMR	133	Triax
B7733A	Belden	RG8	1/0.108/ 10/BC	FFEP/ 0.280	Foil + 90% TC Braid	PVDF/BLK/ 0.355	50	CMP	105	-----
B8214	Belden	RG8	7/0.108/ 11/BC	FPE/ 0.285	97% BC Braid	PVC/BLK/ 0.403	50	CM	116	-----
B8237	Belden	RG8	7/0.085/ 13/BC	PE/ 0.285	95% BC Braid	PVC/BLK/ 0.405	52	CMH	114	-----
B9251	Belden	RG8	7/0.085/ 13/BC	PE/ 0.285	97% BC Braid	NC-PVC/BLK/ 0.405	52	CMX	115	-----
B9258	Belden	RG8	19/0.058/ 16/BC	FPE/ 0.155	95% BC Braid	PVC/BLK/ 0.242	50	CM	40	-----
B1794A	Belden	RG7	1/0.051/ 16/BC	FHDPE/ 0.225	Foil + 95% TC Braid	PVC/BLK/ 0.320	75	CMR	63	+ Colors
B1694A	Belden	RG6	1/0.040/ 18/BC	FHDPE/ 0.180	Foil + 95% TC Braid	PVC/BLK/ 0.274	75	CMR	45	+ Colors SDI/HDTV
B1694F	Belden	RG6	7/0.040/ 19/BC	FHDPE/ 0.180	93% + 94% TC Braid	PVC/Multi-color/ 0.276	75	CMR	54	Flexible
B1695A	Belden	RG6	1/0.040/ 18/BC	FFEP/ 0.170	Foil + 95% TC Braid	FR-PVC/WHT/ 0.234	75	CMP	44	+ Colors SDI/HDTV
B1694S3	Belden	RG6	1/0.040/ 18/BC	FHDPE/ 0.180	Foil + 95% TC Braid	PVC/Multi-color/ 0.274	75	CMR	145	3C Banana Peel
B1694S5	Belden	RG6	1/0.040/ 18/BC	FHDPE/ 0.180	Foil + 95% TC Braid	PVC/Multi-color/ 0.274	75	CMR	277	5C Banana Peel
B1694S6	Belden	RG6	1/0.040/ 18/BC	FHDPE/ 0.180	Foil + 95% TC Braid	PVC/Multi-color/ 0.274	75	CMR	333	6C Banana Peel
B1694SB	Belden	RG6	1/0.040/ 18/BC	FHDPE/ 0.180	Foil + 95% TC Braid	LSZH/BLK/ 0.274	75	CMG-LS	46	Shipboard
B8215	Belden	RG6	1/0.028/ 21/CCS	PE/ 0.185	2-96% BC Braids	PE/BLK/ 0.332	75	-----	74	-----
B9248	Belden	RG6	1/0.040/ 18/BC	FHDPE/ 0.180	Foil + 60% TC Braid	PVC/BLK/ 0.270	75	CM	33	-----
B9290	Belden	RG6	1/0.037/ 18/BC	FPE/ 0.180	2-95% BC Braids	PVC/BLK/ 0.288	75	CM	59	-----
B82248	Belden	RG6	1/0.040/ 18/BC	FFEP/ 0.170	Foil + 65% TC Braid	FR-PVC/WHT/ 0.222	75	CMP	31	-----
B89248	Belden	RG6	1/0.040/ 18/BC	FFEP/ 0.170	Foil + 65% TC Braid	FEP/BLK/ 0.222	75	CMP	33	-----

Broadcast/Video

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
B7710A	Belden	RG6	1/0.040/ 18/BC	FHDPE/ 0.180	Foil + 95% TC Braid	PVC/BLK/ 0.770	75	CMR	286	3C Videoflex OD 0.770
B7711A	Belden	RG6	1/0.040/ 18/BC	FHDPE/ 0.180	Foil + 95% TC Braid	PVC/BLK/ 0.900	75	CMR	350	4C Videoflex OD 0.900
B7712A	Belden	RG6	1/0.040/ 18/BC	FHDPE/ 0.180	Foil + 95% TC Braid	PVC/BLK/ 0.970	75	CMR	454	5C Videoflex OD 0.942
B7713A	Belden	RG6	1/0.040/ 18/BC	FHDPE/ 0.180	Foil + 95% TC Braid	PVC/BLK/ 1.386	75	CMR	1,113	10C Videoflex OD 1.386
B9860	Belden	Twinax	1/0.051/ 16/BC	FPE/ 0.322	Foil + 90% TC Braid	PVC/BLK/ 0.440	124	CMX	103	2C
B1164B	Belden	RGB	7/0.019/ 26/BC	FHDPE/ 0.089	Foil + 93% TC Braid	PVC/BLK/ 0.388	75	CM	78	OD 0.388 3C
B1167B	Belden	RGB	7/0.019/ 26/BC	FHDPE/ 0.089	Foil + 93% TC Braid	PVC/BLK/ 0.435	75	CM	102	OD 0.455 4C
B1406B	Belden	RGB	7/0.019/ 26/BC	FHDPE/ 0.090	Foil + 93% TC Braid	PVC/BLK/ 0.388	75	-----	81	OD 0.388 3C
B1407B	Belden	RGB	7/0.019/ 26/BC	FHDPE/ 0.089	Foil + 93% TC Braid	PVC/BLK/ 0.435	75	-----	100	OD 0.455 4C
B1417B	Belden	RGB	7/0.019/ 26/BC	FHDPE/ 0.090	Foil + 93% TC Braid	PVC/BLK/ 0.477	75	-----	111	OD 0.477 5C
B1418B	Belden	RGB	7/0.019/ 26/BC	FHDPE/ 0.089	Foil + 93% TC Braid	PVC/BLK/ 0.477	75	CM	116	OD 0.477 5C
B1520A	Belden	RGB	7/0.013/ 30/TC	FHDPE/ 0.056	Foil + 90% TC Braid	PVC/BLK/ 0.283	75	CL2	50	3C Mini
B1521A	Belden	RGB	7/0.013/ 30/TC	FHDPE/ 0.056	Foil + 90% TC Braid	PVC/BLK/ 0.310	75	CL2	60	4C Mini
B1522A	Belden	RGB	7/0.013/ 30/TC	FHDPE/ 0.056	Foil + 90% TC Braid	PVC/BLK/ 0.338	75	CL2	63	5C Mini
B1277P	Belden	RGB	1/0.018/ 25/TC	FPFA/ 0.074	Duobond + 95% TC Serve	PVC/GRY/ 0.276	75	CMP	41	3C Mini High-res
B1277R	Belden	RGB	1/0.018/ 25/TC	FHDPE/ 0.074	Duobond + 95% TC Braid	PVC/BLK/ 0.320	75	CMR	48	3C Mini High-res
B1278R	Belden	RGB	1/0.018/ 25/TC	FHDPE/ 0.074	Duobond + 95% TC Serve	PVC/BLK/ 0.351	75	CMR	60	4C Mini High-res
B1279P	Belden	RGB	1/0.018/ 25/TC	FHDPE/ 0.074	Duobond + 95% TC Serve	PVC/BLK/ 0.330	75	CMP	66	5C Mini High-res
B1279R-0	Belden	RGB	1/0.018/ 25/TC	FHDPE/ 0.074	Duobond + 95% TC Serve	PVC/BLK/ 0.114	75	CMR	78	5C Mini High-res
B1280R-10	Belden	RGB	1/0.018/ 25/TC	FHDPE/ 0.074	Duobond + 95% TC Serve	PVC/BLK/ 0.423	75	CMR	87	6C Mini High-res
B1281S3	Belden	RGB	1/0.018/ 25/TC	FHDPE/ 0.074	Duobond + 95% TC Serve	PVC/BLK/ 0.246	75	CMR	27	3C Banana Peel
B1281S5	Belden	RGB	1/0.018/ 25/TC	FHDPE/ 0.074	Duobond + 95% TC Serve	PVC/Multi-color/ 0.114	75	CMR	50	5C Banana Peel
B1281S6	Belden	RGB	1/0.018/ 25/TC	FHDPE/ 0.074	Duobond + 95% TC Serve	PVC/Multi-color/ 0.114	75	CMR	67	6C Banana Peel
B1282S3	Belden	RGB	1/0.018/ 25/TC	FPFA/ 0.075	Duobond + 95% TC Serve	PVC/Multi-color/ 0.114	75	CMP	32	3C Banana Peel
B1282S4	Belden	RGB	1/0.018/ 25/TC	FPFA/ 0.075	Duobond + 95% TC Serve	PVC/Multi-color/ 0.114	75	CMP	49	4C Banana Peel
B1282S5	Belden	RGB	1/0.018/ 25/TC	FPFA/ 0.075	Duobond + 95% TC Serve	PVC/Multi-color/ 0.114	75	CMP	60	5C Banana Peel
B1282S6	Belden	RGB	1/0.018/ 25/TC	FPFA/ 0.075	Duobond + 95% TC Serve	PVC/Multi-color/ 0.114	75	CMP	72	6C Banana Peel

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Broadcast/Video

(continued) Broadcast/Video

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
B1283S3	Belden	RGB	1/0.032/ 20/BC	FFEP/ 0.133	Foil + 95% TC Braid	PVC/Multi-color/ 0.196	75	CMP	102	3C Banana Peel
B1283S5	Belden	RGB	1/0.032/ 20/BC	FFEP/ 0.133	Foil + 95% TC Braid	PVC/Multi-color/ 0.196	75	CMP	171	5C Banana Peel
B1283S6	Belden	RGB	1/0.032/ 20/BC	FFEP/ 0.133	Foil + 95% TC Braid	PVC/Multi-color/ 0.196	75	CMP	209	6C Banana Peel
B1282P	Belden	MINI	1/0.018/ 25/TC	FPFA/ 0.074	Duobond + 95% TC Serve	FR-PVC/BLK/ 0.114	75	CMP	11	-----
B1280P-8	Belden	RGB	1/0.018/ 25/TC	FPFA/ 0.074	Duobond + 95% TC Serve	PVC/GRY/ 0.369	75	CMP	79	-----
B8218	Belden	MINI	7/0.017/ 27/CCS	PE/ 0.100	93% TC Braid	PVC/BLK/ 0.150	75	-----	14	-----
B9221	Belden	MINI	7/0.012/ 30/TC	FHDPE/ 0.058	89% TC Braid	PVC/BLK/ 0.097	75	-----	9	-----
B8700	Belden	MINI	1/0.013/ 28/TC	PP/ 0.023	90% BC Braid	PVC/BLK/ 0.054	32	CM	3	-----
B7700A	Belden	Dual	2x7/0.012/ 30/TC	FFEP/ 0.053	98% TC French Braid	FR-PVC/BLK/ 0.107 x 0.214	75	CMP	20	Zip Cord
B1672J	Belden	Conformable	1/0.011/ 29/SCCS	TFE/ 0.062	CT Comp 100%	PVC/BLK/ 0.127	75	-----	17	No Jacket
B1672A	Belden	Conformable	1/0.011/ 29/SCCS	TFE/ 0.062	CT Comp 100%	UNJKT/-/ 0.087	75	-----	14	No Jacket
B9396	Belden	-----	3/0.021/ 25/TC	PVC/ 0.058	90% TC Spiral	PVC/GRY/ 0.100	31	-----	10	Instrument Cable

Central Office/Telecom

Central Office Interconnect/Cross-Connect 735

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
9L758001B	Belden	DS3/4	1/0.032/ 20/BC	HDFPE/ 0.148	Foil + 85% TC Braid	PVC/GRY/ 0.235	75	CMR	33	1C 734A/D
B734A1P	Belden	DS3/4	1/0.032/ 20/BC	FFEP/ 0.148	Foil + 85% TC Braid	PVC/GRY/ 0.215	75	CMP	36	1C 734A
B734A6	Belden	DS3/4	1/0.032/ 20/BC	GIFHDPE/ 0.148	Foil + 85% TC Braid	PVC/GRY/ 0.772	75	CMR	292	6C 734A
B734A12	Belden	DS3/4	1/0.032/ 20/BC	GIFHDPE/ 0.148	Foil + 85% TC Braid	PVC/GRY/ 1.026	75	CMR	551	12C 734A
B734C1	Belden	DS3/4	1/0.032/ 20/SPC	GIFHDPE/ 0.148	Foil + 85% TC Braid	PVC/GRY/ 0.235	75	CMR	30.3	1C 734C
B734C3	Belden	DS3/4	1/0.032/ 20/SPC	GIFHDPE/ 0.148	Duobond + 85% TC Braid	PVC/GRY/ 0.235	75	CMR	135	3C 734C
B734C6	Belden	DS3/4	1/0.032/ 20/SPC	GIFHDPE/ 0.148	Duobond + 85% TC Braid	PVC/GRY/ 0.777	75	CMR	180	6C 734C
B734C8	Belden	DS3	1/0.032/ 20/SPC	GIFHDPE/ 0.148	Duobond + 85% TC Braid	PVC/GRY/ 0.860	75	CMR	336	8C 734C
B734C12	Belden	DS3	1/0.032/ 20/SPC	GIFHDPE/ 0.148	Duobond + 85% TC Braid	PVC/GRY/ 1.070	75	CMR	461	12C 734C
B734D1	Belden	DS3/4	1/0.032/ 20/SPC	GIFHDPE/ 0.148	Foil + 85% TC Braid	PVC/GRY/ 0.235	75	CMR	36	1C 734D
276586	Belden	DS3/4	1/0.032/ 20/SCC	FFEP/ 0.148	Foil + 85% TC Braid	FR-PVC/GRY/ 0.215	75	CMP	34	1C 734A/D
B734D2	Belden	DS3/4	1/0.032/ 20/SPC	GIFHDPE/ 0.148	Foil + 85% TC Braid	PVC/GRY/ 0.235	75	CMR	66	2C 734D
B734D6	Belden	DS3/4	1/0.032/ 20/SPC	GIFHDPE/ 0.148	Foil + 85% TC Braid	PVC/GRY/ 0.772	75	CMR	290	6C 734D
B734D12	Belden	DS3/4	1/0.032/ 20/SPC	GIFHDPE/ 0.148	Foil + 85% TC Braid	PVC/GRY/ 1.026	75	CMR	555	12C 734D
B735A1	Belden	DS3/4	1/0.019/ 26/SCC	HDFPE/ 0.077	Foil + 93% TC Braid	PVC/GRY/ 0.129	75	CMR	12	1C 735A
B735A1P	Belden	DS3/4	1/0.016/ 26/SPC	FFEP/ 0.077	Foil + 93% TC Braid	PVC/GRY/ 0.129	75	CMP	14	1C 735A
B735A2	Belden	DS3/4	1/0.019/ 26/SCC	HDFPE/ 0.077	Foil + 93% TC Braid	PVC/GRY/ 0.129 x 0.258	75	CMR	25	2C 735A
B735A3	Belden	DS3/4	1/0.016/ 26/SPC	FHDPE/ 0.077	Foil + 93% TC Braid	PVC/GRY/ 0.309	75	CMR	53	3C 735A
B735A6	Belden	DS3/4	1/0.019/ 26/SCC	HDFPE/ 0.077	Foil + 93% TC Braid	PVC/GRY/ 0.399	75	CMR	92	6C 735A
B735A8	Belden	DS3/4	1/0.019/ 26/SCC	HDFPE/ 0.077	Foil + 93% TC Braid	PVC/GRY/ 0.447	75	CMR	121	8C 735A
B735A9	Belden	DS3/4	1/0.016/ 26/SPC	FHDPE/ 0.077	Foil + 93% TC Braid	PVC/GRY/ 0.484	75	CMR	133	9C 735A
B735A12	Belden	DS3/4	1/0.019/ 26/SCC	HDFPE/ 0.077	Foil + 93% TC Braid	PVC/GRY/ 0.581	75	CMR	187	12C 735A
B735A16	Belden	DS3/4	1/0.019/ 26/SCC	HDFPE/ 0.077	Foil + 93% TC Braid	PVC/GRY/ 0.636	75	CMR	250	16C 735A

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(continued) Central Office Interconnect/Cross-Connect 735

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
B735A24	Belden	DS3/4	1/0.016/ 26/SPC	FHDPE/ 0.077	Foil + 93% TC Braid	PVC/GRY/ 0.870	75	CMR	364	24C 735A
B735C1	Belden	DS3	1/0.169/ 25H/SPC	FHDPE/ 0.077	Duobond + 96% TC Braid	PVC/GRY/ 0.134	75	CMR	13.4	1C 735C
B735C3	Belden	DS3	1/0.017/ 25H/SPC	FHDPE/ 0.077	Duobond + 96% TC Braid	PVC/GRY/ 0.318	75	CMR	52	3C 735C
B735C6	Belden	DS3/4	1/0.017/ 25H/SPC	FHDPE/ 0.077	Duobond + 96% TC Braid	PVC/GRY/ 0.445	75	CMR	99	3C 735C
B735C8	Belden	DS3	1/0.017/ 25H/SPC	FHDPE/ 0.077	Duobond + 96% TC Braid	PVC/GRY/ 0.482	75	CMR	133	8C 735C
B735C12	Belden	DS3	1/0.169/ 25H/SPC	FHDPE/ 0.077	Duobond + 96% TC Braid	PVC/GRY/ 0.608	75	CMR	203	12C 735C
B735C24	Belden	DS3	1/0.017/ 25H/SPC	FHDPE/ 0.077	Duobond + 96% TC Braid	PVC/GRY/ 0.890	75	CMR	419	24C 735C
9L758001	CommScope	DS3/4	1/0.032/ 20/BC	FPE/ 0.150	Foil + 80% TC Braid	PVC/GRY/ 0.236	75	CMR	31	1C 734A/D
9L758001P	CommScope	DS3/4	1/0.032/ 20/BC	FFEP/ 0.150	Foil + 80% TC Braid	PVDF/GRY/ 0.215	75	CMP	39	1C 734A/D
9L758012	CommScope	DS3/4	1/0.032/ 20/BC	FPE/ 0.150	Foil + 80% TC Braid	PVC/GRY/ 1.000	75	CMR	498	12C 734A/D
9L758006	CommScope	DS3/4	1/0.032/ 20/SCC	FPE/ 0.150	Foil + 80% TC Braid	PVC/GRY/ 0.236	75	CMR	36	1C 734A/D
9L758006H	CommScope	DS3/4	1/0.032/ 20/SCC	FPE/ 0.150	Foil + 80% TC Braid	HF-PVC/GRY/ 0.236	75	CMR	34	1C 734A/D Halogen Free
9L758056C	CommScope	DS3/4	1/0.032/ 20/SCC	FPE/ 0.150	Foil + 80% TC Braid	PVC/GRY/ 0.780	75	CMR	319	6C 734A/D
CS735T1/893	CommScope	DS3/4	1/0.019/ 26/SCC	FPE/ 0.077	Foil + 92% TC Braid	PVC/GRY/ 0.127 x 0.222	75	CMR	20	1C 735A With 22 AWG Tracer
CS735T2/893	CommScope	DS3/4	1/0.019/ 26/SCC	FPE/ 0.077	Foil + 92% TC Braid	PVC/GRY/ 0.186 x 0.400	75	CMR	39	2C 735A With 22 AWG Tracer
9L759501C	CommScope	DS3/4	1/0.019/ 26/SCC	FPE/ 0.077	Foil + 92% TC Braid	PVC/GRY/ 0.127	75	CMR	14	1C 735A
9L759501P	CommScope	DS3/4	1/0.019/ 26/SCC	FFEP/ 0.077	Foil + 92% TC Braid	PVDF/GRY/ 0.127	75	CMP	14	1C 735A
185929	CommScope	DS3/4	1/0.019/ 26/SCC	FPE/ 0.077	Foil + 92% TC Braid	PVC/GRY/ 0.186 x 0.313	75	CMR	26	2C 735A
9L759502P	CommScope	DS3/4	1/0.019/ 26/SCC	FFEP/ 0.077	Foil + 92% TC Braid	PVDF/GRY/ 0.157 x 0.284	75	CMP	25	2C 735A
9L759502C	CommScope	DS3/4	1/0.019/ 26/SCC	FPE/ 0.077	Foil + 92% TC Braid	PVC/GRY/ 0.325	75	CMR	56	3C 735A
9L759505C	CommScope	DS3/4	1/0.019/ 26/SCC	FPE/ 0.077	Foil + 92% TC Braid	PVC/GRY/ 0.440	75	CMR	98	6C 735A
9L759505P	CommScope	DS3/4	1/0.019/ 26/SCC	FFEP/ 0.077	Foil + 92% TC Braid	PVDF/GRY/ 0.440	75	CMP	123	6C 735A
9M75DS50	CommScope	DS3/4	1/0.019/ 26/SCC	FPE/ 0.077	Foil + 92% TC Braid	PVC/GRY/ 0.514	75	CMR	120	8C 735A
9L759504C	CommScope	DS3/4	1/0.019/ 26/SCC	FPE/ 0.077	Foil + 92% TC Braid	PVC/GRY/ 0.604	75	CMR	182	12C 735A
9L759501J	Judd Wire	DS3	1/0.019/ 26/SCC	FPE/ 0.075	Foil + 92% TC Braid	PVC/GRY/ 0.235	75	CMR	12	1C 735A
9L758006J	Judd Wire	DS3	1/0.032/ 20/SCC	FPE/ 0.148	Foil + 85% TC Braid	PVC/GRY/ 0.235	75	CMR	36	6C 734D
9L759506J	Judd Wire	DS3	1/0.019/ 26/SCC	FPE/ 0.075	Foil + 92% TC Braid	PVC/GRY/ 0.740	75	CMR	92	6C 735A

Central Office/Telecom

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
9L758008J	Judd Wire	DS3	1/0.032/ 20/SCC	FPE/ 0.148	Foil + 85% TC Braid	PVC/GRY/ 0.235	75	CMR	36	8C 734D
9L759508J	Judd Wire	DS3	1/0.019/ 26/SCC	FPE/ 0.075	Foil + 92% TC Braid	PVC/GRY/ 0.875	75	CMR	133	8C 735A
9L759512J	Judd Wire	DS3	1/0.019/ 26/SCC	FPE/ 0.075	Foil + 92% TC Braid	PVC/GRY/ 1.100	75	CMR	187	12C 735A
9L758001J	Judd Wire	DS3/4	1/0.032/ 20/SCC	FPE/ 0.148	Foil + 80% TC Braid	PVC/GRY/ 0.235	75	CMR	36	1C 734A/D
9L758012J	Judd Wire	DS3	1/0.032/ 20/SCC	FPE/ 0.148	Foil + 85% TC Braid	PVC/GRY/ 0.235	75	CMR	386	12C 734D

CCTV

Closed Circuit Television - CCTV

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
B6539Y8	Belden	RG62	1/0.025/ 22/CCS	FPE/ 0.146	95% BC Braid	FRPVC/WHT/ 0.204	93	CMP	33	-----
B543945	Belden	RG59	1/0.032/ 20/BC	FPE/ 0.145	95% BC Braid	PVC/BLK/ 0.232	75	CMG	31	Also Available In White
B549945	Belden	RG59	1/0.032/ 20/BC	FPE/ 0.145	95% BC Braid	PVC/BLK/ 0.232 x 0.460	75	CMG	49	Siamese With Control + White
B551945	Belden	RG59	7/0.030/ 22/BC	FPE/ 0.140	93% BC Braid	PVC/BLK/ 0.232	75	CM	30	-----
B573945	Belden	RG59	1/0.018/ 25/BC	FPE/ 0.085	94% BC Braid	PVC/BLK/ 0.146	75	CM	14	Mini RG59 Colors
B673948	Belden	RG59	1/0.018/ 25/BC	FFEP/ 0.078	95% BC Braid	FR-PVC/WHT/ 0.146	75	CMP	17	Mini Coax
B643948	Belden	RG59	1/0.032/ 20/BC	FFEP/ 0.135	95% BC Braid	FR-PVC/WHT/ 0.193	75	CMP	32	-----
B649948	Belden	RG59	1/0.032/ 20/BC	FFEP/ 0.135	95% BC Braid	FR-PVC/WHT/ 0.199 x 0.383	75	CMP	48	Siamese With Control
B5439W5	Belden	RG59	1/0.032/ 20/BC	FPE/ 0.145	Foil + 95% TC Braid	UV PVC/BLK/ 0.236	75	CM	34	Direct Burial
B7986LC	Belden	RG59	1/0.032/ 20/BC	FFEP/ 0.135	95% BC Braid	FEP/WHT/ 0.193	75	CMP	31	Limited Combustible
B2505PTZ	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	95% BC Braid	PVC/BLK/ 0.496	75	CM	166	Banana Peel - Pan/Tilt/Zoom
B500PTZ	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	95% BC Braid	PVC/BLK/ 0.227	75	CMR	58	Banana Peel - Pan/Tilt/Zoom
B501PTZ	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	95% BC Braid	PVC/BLK/ 0.227	75	CMR/CMG	71	Banana Peel - Pan/Tilt/Zoom
B502PTZ	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	95% BC Braid	PVC/BLK/ 0.227	75	CMR/CMG	89	Banana Peel - Pan/Tilt/Zoom
B503PTZ	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	95% BC Braid	PVC/BLK/ 0.227	75	CMR/CMG	101	Banana Peel - Pan/Tilt/Zoom
B504PTZ	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	95% BC Braid	PVC/BLK/ 0.227	75	CMR/CMG	101	Banana Peel - Pan/Tilt/Zoom
B600PTZ	Belden	RG59	1/0.032/ 20/BC	FPFA/ 0.133	95% BC Braid	PVC/BLK/ 0.227	75	CMP	62	Banana Peel - Pan/Tilt/Zoom
B601PTZ	Belden	RG59	1/0.032/ 20/BC	FPFA/ 0.133	95% BC Braid	FR-PVC/BLK/ 0.193	75	CMP	65	Banana Peel - Pan/Tilt/Zoom
B602PTZ	Belden	RG59	1/0.032/ 20/BC	FPFA/ 0.133	95% BC Braid	FR-PVC/BLK/ 0.193	75	CMP	70	Banana Peel - Pan/Tilt/Zoom
B679948	Belden	RG59	1/0.018/ 25/BC	FFEP/ 0.078	95% BC Braid	FR-PVC/BLK/ 0.144	75	CMP	34	CCTV Comp
B5439X5	Belden	RG59	1/0.032/ 20/BC	FPE/ 0.145	95% BC Braid	PVC/BLK/ 0.244	75	CM	34	Coax
B5499X5	Belden	RG59	1/0.032/ 20/BC	FHDPE/ 0.145	95% BC Braid	PVC/BLK/ 0.249	75	CM	69	Twisted Comp
B579945	Belden	RG59	1/0.018/ 25/BC	FPE/ 0.085	95% BC Braid	PVC/BLK/ 0.151	75	CM	29	Twisted Comp
B513945	Belden	RG11	1/0.064/ 14/BC	FPE/ 0.280	95% BC Braid	PVC/BLK/ 0.405	75	CM	98	-----

CCTV

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
B613948	Belden	RG11	1/0.064/ 14/BC	FFEP/ 0.274	95% BC Braid	FR-PVC/WHT/ 0.348	75	CMP	90	-----
B533945	Belden	RG6	1/0.040/ 18/BC	FPE/ 0.180	95% BC Braid	PVC/BLK/ 0.266	75	CM	41	Also Available In White
B633948	Belden	RG6	1/0.040/ 18/BC	FFEP/ 0.170	95% BC Braid	FR-PVC/WHT/ 0.228	75	CMP	42	-----
B639948	Belden	RG6	1/0.040/ 18/BC	FFEP/ 0.170	95% BC Braid	FR-PVC/WHT/ 0.232 x 0.416	75	CM	56	Siamese With Control
B5339W5	Belden	RG6	1/0.040/ 18/BC	FPE/ 0.145	Foil + 60% AL Braid	PVC/BLK/ 0.236	75	CM	31	Direct Burial
B7985LC	Belden	RG6	1/0.040/ 18/BC	FFEP/ 0.170	95% BC Braid	FEP/WHT/ 0.228	75	CMP	44	Limited Combustible
B5339X5	Belden	RG6	1/0.040/ 18/BC	FPE/ 0.180	95% BC Braid	PVC/BLK/ 0.279	75	CM	42	Water-Resistant
B5399X5	Belden	RG6	1/0.040/ 18/BC	FPE/ 0.180	95% BC Braid	PVC/BLK/ 0.279	75	CM	69	Siamese With Control - Water-Resistant
CS2039V	CommScope	RG59	1/0.032/ 20/BC	FFEP/ 0.135	95% BC Braid	FR-PVC/WHT/ 0.193	75	CMP	29	-----
CS5554M	CommScope	RG59	1/0.032/ 20/BC	FPE/ 0.144	95% BC Braid	PVC/BLK/ 0.232 x 0.460	75	CM	66	Siamese With Control
CS5553	CommScope	RG59	1/0.032/ 20/BC	FPE/ 0.144	95% BC Braid	PVC/BLK/ 0.242	75	CM	33	-----
CS5554	CommScope	RG59	1/0.032/ 20/BC	FPE/ 0.144	95% BC Braid	PVC/BLK/ 0.242 x 0.484	75	CM	56	Siamese With Control
CS2286K	CommScope	RG11	1/0.064/ 14/BC	FFEP/ 0.280	95% BC Braid	PVDF/WHT/ 0.347	75	CMP	90	-----
CS5904	CommScope	RG11	1/0.064/ 14/BC	FPE/ 0.285	93% BC Braid	PVC/BLK/ 0.395	75	CM	83	-----
CS5654	CommScope	RG6	1/0.040/ 18/BC	FPE/ 0.144	95% BC Braid	PVC/BLK/ 0.266 x 0.500	75	CM	62	Siamese With Control
CS5700	CommScope	RG6	1/0.040/ 18/BC	FPE/ 0.180	95% BC Braid	PVC/BLK/ 0.272	75	CM	48	-----
CS5720	CommScope	RG6	1/0.040/ 18/BC	FPE/ 0.180	95% BC Braid	PE/BLK/ 0.272	75	-----	36	Direct Burial
CS2254V	CommScope	RG6	1/0.040/ 18/BC	FFEP/ 0.170	95% BC Braid	FR-PVC/WHT/ 0.232 x 0.416	75	CMP	37	Siamese With Control
CS2277V	CommScope	RG6	1/0.040/ 18/BC	FFEP/ 0.170	95% BC Braid	FR-PVC/WHT/ 0.237	75	CMP	40	-----
WP25815	West Penn	RG59	1/0.032/ 20/BC	FFEP/ 0.138	95% BC Braid	FR-PVC/WHT/ 0.207	75	CMP	28	-----
WP2815	West Penn	RG59	1/0.032/ 20/BC	FPE/ 0.142	95% BC Braid	PVC/BLK/ 0.232 x 0.460	75	CM	56	Siamese With Control
WP825	West Penn	RG59	1/0.018/ 25/BC	FPE/ 0.085	95% BC Braid	PVC/BLK/ 0.146	75	CM	17	-----
WP815	West Penn	RG59	1/0.032/ 20/BC	FPE/ 0.142	95% BC Braid	PVC/BLK/ 0.232	75	CM	33	-----
RG59PLN	-----	RG59	1/0.032/ 20/BC	FFEP/ 0.135	95% BC Braid	FR-PVC/WHT/ 0.193	75	CMP, CL2P	32	-----
RG59PVC	-----	RG59	1/0.032/ 20/BC	FPE/ 0.145	95% BC Braid	PVC/BLK/ 0.242	75	CM, CL2	35	Also Available In White
RG59PVCSIAMESE	-----	RG59	1/0.032/ 20/BC	FPE/ 0.145	95% BC Braid	PVC/BLK/ 0.232 x 0.460	75	CM, CL3	60	Siamese With Control + White
RG59SIAMESEPLN	-----	RG59	1/0.032/ 20/BC	FFEP/ 0.135	95% BC Braid	FR-PVC/WHT/ 0.199 x 0.383	75	CMP	52	Siamese With Control

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CCTV

(continued) Closed Circuit Television - CCTV

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
RG11PVC	-----	RG11	1/-/ 14/BC	FPE/ 0.280	95% BC Braid	PVC/BLK/ 0.404	75	CL3	87	-----
RG6PLN	-----	RG6	1/0.040/ 18/BC	FFEP/ 0.172	95% BC Braid	FR-PVC/WHT/ 0.228	75	CMP, CL2P	42	-----
RG6PVC	-----	RG6	1/0.040/ 18/BC	FPE/ 0.182	95% BC Braid	PVC/BLK/ 0.270	75	CM, CL2	44	Also Available In White

Computer

Computer

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
B84316	Belden	RG316	7/0.020/ 26/SCCS	TFE/ 0.060	SCC Braid	FEP/BRN/ 0.098	50-S	M17	12	M17/113-RG316
B83284	Belden	RG316	7/0.020/ 26/SCCS	TFE/ 0.059	SCC Braid	FEP/WHT/ 0.098	50	M17	11	M17/113-RG316
B84303	Belden	RG303	1/0.037/ 18/SCCS	TFE/ 0.116	SCC Braid	FEP/BRN/ 0.170	50-S	M17	32	M17/111-RG303
B9273	Belden	RG223	1/0.035/ 19/SCC	PE/ 0.117	2-SCC Braids	NC-PVC/BLK/ 0.212	50	M17	39	M17/167-00001
B9850	Belden	RG216	7/0.048/ 18/TC	PE/ 0.285	2-BC Braids	NC-PVC/BLK/ 0.425	75	M17	131	M17/077-RG216
B8268	Belden	RG214	7/0.089/ 13/SCC	PE/ 0.285	2-SCC Braids	NC-PVC/BLK/ 0.425	50	M17	140	M17/164-00001
B8267	Belden	RG213	7/0.089/ 13/BC	PE/ 0.285	BC Braid	NC-PVC/BLK/ 0.405	50	M17	117	M17/163-00001
B83269	Belden	RG188	7/0.0205/ 26/SCCS	TFE/ 0.058	96% SCC Braid	TFE Tape/WHT/ 0.098	50	-----	12	-----
B83267	Belden	RG187	7/0.012/ 30/SCCS	TFE/ 0.063	95% SCC Braid	TFE Tape/WHT/ 0.103	75	-----	11	RG 187 A/U Type
B83266	Belden	RG180	7/0.012/ 30/SCCS	TFE/ 0.102	SCC Braid	FEP/BRN/ 0.141	95	M17	20	M17/095-RG180
B83264	Belden	RG179	7/0.012/ 30/SCCS	TFE/ 0.063	SCC Braid	FEP/BRN/ 0.109	75	M17	11	M17/094-RG179
B83265	Belden	RG178	7/0.012/ 30/SCCS	TFE/ 0.033	SCC Braid	FEP/WHT/ 0.071	50	M17	7	M17/169-00001
B8216	Belden	RG174	7/0.019/ 26/BCCS	PE/ 0.060	90% TC Braid	PVC/BLK/ 0.110	50	-----	9	-----
B9239	Belden	RG174	7/0.019/ 26/CCS	PE/0.044/ PVC/0.056	90% TC Braid	PVC/BLK/ 0.101	50	-----	8	Low Triboelectric Noise
B84142	Belden	RG142	1/0.037/ 19/SCCS	TFE/ 0.116	2-SCC Braids	FEP/BRN/ 0.195	50-S	M17/CMP	44	M17/060-RG142
B83242	Belden	RG142	1/0.037/ 19/SCCS	TFE/ 0.116	2-SCC Braids	FEP/BRN/ 0.195	50	M17/CMP	44	M17/158-00001
B9252	Belden	RG122	27/0.031/ 22/TC	PE/ 0.096	TC Braid	NC-PVC/BLK/ 0.160	50	M17/CMX	20	M17/157-00001
B9859	Belden	RG108	7/0.038/ 20/TC	PE/ 0.079	TC Braid	NC-PVC/BLK/ 0.235	78	M17	35	M17/045-RG108 Twinax
B9169	Belden	RG71	1/0.025/ 22/CCS	ASPE/ 0.146	2-TC Braids	NC-PVC/BLK/ 0.245	93	M17	46	M17/090-RG71
B9857	Belden	RG63	1/0.025/ 22/CCS	ASPE/ 0.285	BC Braid	NC-PVC/BLK/ 0.405	125	M17/CMH	94	M17/031-RG63
B9862	Belden	RG62	1/0.025/ 22/CCS	ASPE/ 0.146	BC Braid	NC-PVC/BLK/ 0.242	93	M17/CMX	38	M17/030-RG62
B8254	Belden	RG62	1/0.025/ 22/BCCS	PE/ 0.146	95% BC Braid	PVC/BLK/ 0.238	93	-----	36	Semi-solid PE
B8255	Belden	RG62	7/0.024/ 24/CCS	PE/ 0.146	95% BC Braid	NC-PVC/BLK/ 0.242	93	CMX	34	-----

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Computer

(continued) Computer

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
B9228	Belden	RG62	1/0.025/ 22/CCS	PE/ 0.146	95% BC Braid	HDPE/BLK/ 0.242	93	-----	33	Direct Burial
B9268	Belden	RG62	1/0.025/ 22/CCS	PE/ 0.146	95% BC Braid	PVC/BLK/ 0.260	93	CM, CL2	44	-----
B9269	Belden	RG62	1/0.025/ 22/CCS	PE/ 0.146	95% BC Braid	PVC/BLK/ 0.239	93	CM, CL2	36	-----
B82262	Belden	RG62	1/0.025/ 22/CCS	FFEP/ 0.146	94% BC Braid	FR-PVC/WHT/ 0.204	93	CMP	30	Low Smoke
B86262	Belden	RG62	1/0.025/ 22/CCS	FFEP/ 0.146	94% BC Braid	FEP/WHT/ 0.204	93	CMP	35	-----
B87269	Belden	RG62	1/0.025/ 22/CCS	FEP/ 0.142	94% BC Braid	PVDF/GRY/ 0.200	93	CMP	34	-----
B89269	Belden	RG62	1/0.025/ 22/CCS	FEP/ 0.142	94% BC Braid	FEP/BLK/ 0.200	93	CMP	36	-----
B82269	Belden	RG62	1/0.025/ 22/CCS	FEP/ 0.142	94% BC Braid	FR-PVC/WHT/ 0.200	93	CMP	34	Low Smoke
B9224	Belden	RG59	1/0.025/ 22/CCS	PE/0.146/ PVC/0.154	93% BC Braid	PVC/BLK/ 0.242	75	-----	39	Low Triboelectric Noise
B9204	Belden	RG59	1/0.023/ 24/CCS	PE/ 0.146	BC Braid	NC-PVC/BLK/ 0.242	75	M17/CMH	39	M17/029-RG59
B9555	Belden	RG59 DUAL	2x1/0.023/ 23/CCS	PE/ 0.146	95% BC Braid	PVC/BLK/ 0.238 x 0.478	75	CM	78	Dual
B89555	Belden	RG59 DUAL	2x1/0.023/ 23/CCS	FEP/ 0.134	97% BC Braid	FEP/CLR/ 0.212 x 0.424	75	CMP	90	Dual
B8219	Belden	RG58	19/0.037/ 20/TC	FPE/ 0.114	93% TC Braid	PVC/BLK/ 0.194	54	CM	26	CEC CM
B9203	Belden	RG58	19/0.036/ 20/TC	PE/ 0.116	TC Braid	NC-PVC/BLK/ 0.195	50	M17	26	M17/028-RG58
B8240	Belden	RG58	1/0.033/ 20/BC	PE/ 0.116	95% TC Braid	PVC/BLK/ 0.193	52	CMX	26	-----
B8259	Belden	RG58	19/0.035/ 20/TC	PE/ 0.116	95% TC Braid	PVC/BLK/ 0.193	50	-----	25	-----
B9201	Belden	RG58	1/0.033/ 20/BC	PE/ 0.116	78% BC Braid	PVC/BLK/ 0.193	52	-----	23	-----
B9222	Belden	RG58	7/0.038/ 20/TC	PE/ 0.120	95% TC Braid + 85% TC Braid	PVC/YEL/ 0.241	50	-----	37	-----
B9223	Belden	RG58	7/0.030/ 22/TC	PE/0.036/ PE/0.112	Duobond + 95% TC Braid	PVC/BLK/ 0.195	50	-----	24	Low Triboelectric Noise
B9310	Belden	RG58	1/0.033/ 20/BC	PE/ 0.114	Foil + 55% TC Braid	PVC/BLK/ 0.193	50	-----	21	-----
B9311	Belden	RG58	19/0.037/ 20/TC	FPE/ 0.114	Foil + 55% TC Braid	PVC/BLK/ 0.193	52	CM	21	-----
B82240	Belden	RG58	1/0.032/ 20/BC	FEP/ 0.107	95% TC Braid	FR-PVC/WHT/ 0.159	53	CMP	24	-----
B88240	Belden	RG58	1/0.032/ 20/BC	FEP/ 0.107	95% TC Braid	FEP/BLK/ 0.159	53	CMP	24	-----
B8262	Belden	RG58	19/0.036/ 20/TC	PE/ 0.116	95% TC Braid	NC-PVC/BLK/ 0.195	50	M17	26	M17/028-RG58
B9250	Belden	RG22	7/0.048/ 18/BC	PE/ 0.285	2-95% TC Braids	PVC/BLK/ 0.420	95	-----	121	Twinax 2C
B9212	Belden	RG11	7/0.048/ 18/TC	PE/ 0.285	BC Braid	NC-PVC/BLK/ 0.405	75	M17/CMH	105	M17/006-RG11

Computer

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
B3094A	Belden	RG11	1/0.064/ 14/BCCS	FFEP/ 0.280	Quad	PVC/GRY/ 0.407	75	CMR, CL2R	67	Control Bus
B3095A	Belden	RG11	1/0.064/ 14/BCCS	FFEP/ 0.280	Quad	PVDF/GRY/ 0.387	75	CMP	76	Control Bus
B8214	Belden	RG8	7/0.108/ 11/BC	FPE/ 0.285	97% BC Braid	PVC/BLK/ 0.403	50	CM	116	-----
B8237	Belden	RG8	7/0.085/ 13/BC	PE/ 0.285	95% BC Braid	PVC/BLK/ 0.405	52	CMH	114	-----
B9251	Belden	RG8	7/0.085/ 13/BC	PE/ 0.285	97% BC Braid	NC-PVC/BLK/ 0.405	52	CMX	115	-----
B9258	Belden	RG8	19/0.058/ 16/BC	FPE/ 0.155	95% BC Braid	PVC/BLK/ 0.242	50	CM	40	-----
B9888	Belden	RG8	7/0.108/ 11/BC	FPE/ 0.285	2-96% BC Braids	PE/BLK/ 0.480	50	-----	140	Triax
B9913	Belden	RG8	1/0.108/ 10/BC	PE/ 0.286	Foil + 90% TC Braid	PVC/BLK/ 0.405	50	-----	116	-----
B9914	Belden	RG8	1/0.103/ 10/BC	FHDPE/ 0.285	Foil + 95% TC Braid	PVC/BLK/ 0.403	50	CMG	114	-----
B89913	Belden	RG8	1/0.108/ 10/BC	FEP/ 0.295	Foil + 90% TC Braid	PVDF/BLK/ 0.364	50	CMP	128	Siamese With Control
B7733A	Belden	RG8	1/0.108/ 10/BC	FFEP/ 0.280	Foil + 90% TC Braid	PVDF/BLK/ 0.355	50	CMP	105	-----
B9913F7	Belden	RG8	7/0.108/ 10/BC	FHDPE/ 0.285	Foil + 95% TC Braid	PVC/BLK/ 0.405	52	-----	104	Belflex
B3131A	Belden	RG6	1/0.040/ 18/BCCS	FPE/ 0.180	Quad	PVC/GRY/ 0.300	75	CL2R, CMR	21	Control Bus
B3132A	Belden	RG6	1/0.040/ 18/BCCS	FFEP/ 0.170	Quad	PVDF/GRY/ 0.274	75	CMP	36	Control Bus
B89182	Belden	Twinax	19/0.030/ 22/TC	FFEP/ 0.278	Foil	FEP/BLK/ 0.307	150	CMP	49	2C
B9860	Belden	Twinax	1/0.051/ 16/BC	FPE/ 0.322	Foil + 90% TC Braid	PVC/BLK/ 0.440	124	CMX	103	2C
B9182	Belden	Twinax	1/0.025/ 22/TC	FPO/ 0.275	Foil	PVC/BLK/ 0.345	150	CMX	44	2C
B9207	Belden	Twinax	7/0.032/ 20/TC/BC	PE/ 0.236	Foil + 86% TC Braid	PVC/BLK/ 0.330	100	CM	68	2C
B9271	Belden	Twinax	7/0.021/ 25/TC	PE/ 0.170	Foil	PVC/BLU/ 0.240	124	CM	28	2C
B9272	Belden	Twinax	7/0.037/ 20/TC	PE/ 0.156	95% TC Braid	PVC/BLU/ 0.244	78	CM	41	2C
B9815	Belden	Twinax	7/0.037/ 20/TC/BC	PE/ 0.236	Foil + 95% TC Braid	PE/BLK/ 0.330	100	-----	69	2C Direct Burial
B89207	Belden	Twinax	7/0.037/ 20/TC/BC	FEP/ 0.201	Foil + 85% TC Braid	FEP/BLK/ 0.259	100	CMP	55	2C
B81553	Belden	Twinax	19/0.025/ 24/SCBeCu	TFE/ 0.042	SCBeCu Braid	PFA/BLU/ 0.129	77	M17	17	M17/176-00002
B89272	Belden	Twinax	7/0.037/ 20/TC	FEP/ 0.148	93% TC Braid	FEP/BLU/ 0.198	78	CMP	39	2C
B8700	Belden	MINI	1/0.013/ 28/TC	PP/ 0.023	90% BC Braid	PVC/BLK/ 0.054	32	CM	3	-----
B9907	Belden	RG58	19/0.037/ 20/TC	FHDPE/ 0.102	Foil + 93% TC Braid	PVC/GRY/ 0.185	50	CM, CL2	25	10BASE-2
B82907	Belden	RG58	19/0.037/ 20/TC	FPFA/ 0.095	Foil + 93% TC Braid	FR-PVC/WHT/ 0.160	50	CMP, CL2P	24	10BASE-2

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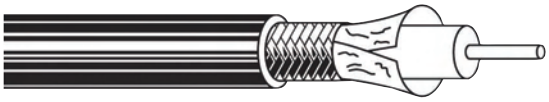
Computer

(continued) Computer

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
B89907	Belden	RG58	19/0.037/ 20/TC	FFEP/ 0.095	Foil + 93% TC Braid	PVDF/GRY/ 0.160	50	CMP, CL2P	24	10BASE-2
B9880	Belden	RG8	1/0.086/ 12/BC	FPE/ 0.243	Quad	PVC/YEL/ 0.405	50	CM, CL2	131	10BASE-5
B89880	Belden	RG8	1/0.086/ 12/BC	FFEP/ 0.245	Quad	PVDF/ORG/ 0.375	50	CMP, CL2P	134	10BASE-5
A9217	Alpha Wire	RG217	1/0.016/ 10/BC	PE/ 0.370	2-95% BC Braids	NC-PVC/BLK/ 0.545	50	-----	230	-----
A9188A	Alpha Wire	RG188	7/0.021/ 25/SCCS	TFE/ 0.060	94% SCC Braid	TFE Tape/WHT/ 0.105	50	-----	11	-----
A9174	Alpha Wire	RG174	7/0.019/ 26/BC	PE/ 0.060	85% TC Braid	PVC/BLK/ 0.100	50	-----	8	-----
A9059C	Alpha Wire	RG59	1/0.025/ 22/BC	PE/ 0.146	95% BC Braid	PVC/Multi-color/ 0.245	75	CL2	41	-----
A9058C	Alpha Wire	RG58	19/0.038/ 20/TC	PE/ 0.116	95% TC Braid	PVC/BLK/ 0.195	50	CL2	29	-----
A9058AC	Alpha Wire	RG58	19/0.037/ 20/TC	PE/ 0.116	95% TC Braid	PVC/BLK/ 0.195	50	CL2	28	-----
A9058A	Alpha Wire	RG58	19/0.037/ 20/TC	PE/ 0.116	95% TC Braid	PVC/BLK/ 0.195	50	-----	28	-----
307-011-223	-----	RG223	1/0.035/ 19/SC	PE/ 0.116	2-95% SCC Braids	PVC/BLK/ 0.212	50	CL2X	37	-----
307-011-214	-----	RG214	7/0.089/ 13/SCC	PE/ 0.285	1-96% + 1-98% SCC Braid	PVC/BLK/ 0.425	50	CL2X	135	-----
307-011-213	-----	RG213	7/0.089/ 13/BC	PE/ 0.285	96% BC Braid	PVC/BLK/ 0.405	50	CL2X	99	-----
307-011-188A	-----	RG188	7/0.019/ 26/SCCS	TFE/ 0.060	96% SCC Braid	TFE Tape/WHT/ 0.100	50	M17	10	-----
307-011-174	-----	RG174	7/0.019/ 26/CCS	PE/ 0.060	88% TC Braid	PVC/BLK/ 0.100	50	-----	9	-----
308-011-0582	-----	RG58	1/0.032/ 20/BC	PE/ 0.116	80% BC Braid	PVC/BLK/ 0.195	53.5	-----	23	-----

Wireless/Satellite

Wireless/Satellite



Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
B9913	Belden	RG8	1/0.108/ 10/BC	PE/ 0.286	Foil + 90% TC Braid	PVC/BLK/ 0.405	50	-----	116	-----
B89913	Belden	RG8	1/0.108/ 10/BC	FEP/ 0.295	Foil + 90% TC Braid	PVDF/BLK/ 0.364	50	CMP	128	Siamese With Control
B9913F7	Belden	RG8	7/0.108/ 10/BC	FHDPE/ 0.285	Foil + 95% TC Braid	PVC/BLK/ 0.405	52	-----	104	Belflex
B9914	Belden	RG8	1/0.103/ 10/BC	FHDPE/ 0.285	Foil + 95% TC Braid	PVC/BLK/ 0.403	50	CMG	114	-----
B7805	Belden	RG174	1/0.018/ 25/BC	PE/ 0.061	Foil + 90% TC Braid	PVC/BLK/ 0.110	50	-----	10	RF100A
B7805R	Belden	RG174	1/0.020/ 24.5/BC	FHDPE/ 0.060	Foil + 90% TC Braid	PVC/GRY/ 0.110	50	CMR	10	RF100LL
B7806A	Belden	RG58	1/0.037/ 19/BC	FHDPE/ 0.110	Foil + 90% TC Braid	PE/BLK/ 0.195	50	-----	26	RF195
B7806R	Belden	RG58	1/0.037/ 19/BC	FHDPE/ 0.110	Foil + 90% TC Braid	PVC/BLK/ 0.195	50	CMR	29	RF195
B7807A	Belden	RG58	1/0.044/ 17/BC	FHDPE/ 0.116	Foil + 95% TC Braid	PE/BLK/ 0.195	50	-----	27	RF200
B7807R	Belden	RG58	1/0.044/ 17/BC	FHDPE/ 0.116	Foil + 95% TC Braid	PVC/BLK/ 0.195	50	CMR	29	RF200
B7808A	Belden	RG8	1/0.057/ 15/BC	FHDPE/ 0.150	Foil + 95% TC Braid	PE/BLK/ 0.240	50	-----	39	RF240
B7808R	Belden	RG8	1/0.057/ 15/BC	FHDPE/ 0.150	Foil + 95% TC Braid	PVC/BLK/ 0.240	50	CMR	44	RF240
B7808WB	Belden	RG8	1/0.057/ 15/BC	FHDPE/ 0.150	Foil + 95% TC Braid	PE/BLK/ 0.240	50	-----	39	RF240 - Water-Resistant
B7809A	Belden	RF300	1/0.072/ 13/BC	FHDPE/ 0.190	Foil + 95% TC Braid	PE/BLK/ 0.300	50	-----	59	RF300
B7809R	Belden	RF300	1/0.072/ 13/BC	FHDPE/ 0.190	Foil + 95% TC Braid	PVC/BLK/ 0.240	50	CMR	65	RF300
B7809WB	Belden	RF300	1/0.072/ 13/BC	FHDPE/ 0.190	Foil + 95% TC Braid	PE/BLK/ 0.300	50	-----	58	RF300 - Water-Resistant
B7810A	Belden	RG8	1/0.108/ 10/CCA	FHDPE/ 0.285	Foil + 95% TC Braid	PE/BLK/ 0.403	50	-----	86	RF400
B7810R	Belden	RG8	1/0.108/ 10/CCA	FHDPE/ 0.285	Foil + 95% TC Braid	PVC/BLK/ 0.403	50	CMR	98	RF400
B7810WB	Belden	RG8	1/0.108/ 10/CCA	FHDPE/ 0.285	Foil + 95% TC Braid	PE/BLK/ 0.403	50	-----	86	RF400 - Water-Resistant
B7810SB	Belden	RG8	1/0.108/ 10/BCCA	FHDPE/ 0.285	Duobond + 95% TC Braid	LSZH/BLK/ 0.405	50	CMR/CMG	97	RF400 Shipboard
B7976A	Belden	RF500	1/0.142/ 7/BCCA	FHDPE/ 0.370	Foil + 90% TC Braid	PE/BLK/ 0.500	50	-----	108	RF500
B7976R	Belden	RF500	1/0.142/ 7/BCCA	FHDPE/ 0.370	Foil + 90% TC Braid	PVC/BLK/ 0.500	50	CMR	131	RF500
B7976WB	Belden	RF500	1/0.142/ 7/BCCA	FHDPE/ 0.370	Foil + 90% TC Braid	PE/BLK/ 0.590	50	-----	120	RF600

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Wireless/Satellite

(continued) Wireless/Satellite

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
B7977A	Belden	RF600	1/0.176/ 5.5/BCCA	FHDPE/ 0.455	Foil + 85% TC Braid	PE/BLK/ 0.590	50	-----	146	RF600
B7977R	Belden	RF600	1/0.176/ 5.5/BCCA	FHDPE/ 0.455	Duobond + 85% TC Braid	PVC/BLK/ 0.590	50	CMR	163	RF600
B7977WB	Belden	RF600	1/0.176/ 5.5/BCCA	FHDPE/ 0.455	Foil + 85% TC Braid	PE/BLK/ 0.590	50	-----	146	RF600 - Water-Resistant
LMR-195	Times Microwave	LMR-195	1/0.037/ -/BC	FPE/ 0.110	AL Tube + TC Braid	PE/BLK/ 0.195	50	-----	22	-----
LMR-240	Times Microwave	LMR-240	1/0.056/ -/BC	FPE/ 0.150	AL Tube + TC Braid	PE/BLK/ 0.240	50	-----	34	-----
LMR-240-UF	Times Microwave	LMR-240	1/0.056/ -/BC	FPE/ 0.150	AL Tube + TC Braid	UV PE/BLK/ 0.240	50	-----	34	Flexible
LMR-400	Times Microwave	LMR-400	1/0.109/ -/CCA	FPE/ 0.285	AL Tube + TC Braid	PE/BLK/ 0.405	50	-----	68	-----
LMR-400-DB	Times Microwave	LMR-400	1/0.109/ -/CCA	FPE/ 0.285	AL Tube + TC Braid	PE/BLK/ 0.405	50	-----	70	Direct Burial
LMR-400FR	Times Microwave	LMR-400	1/0.109/ -/CCA	FPE/ 0.285	AL Tube + TC Braid	PE/BLK/ 0.405	50	CMR	68	Riser
LMR-400-LLPL	Times Microwave	LMR-400	1/0.109/ -/CCA	FPE/ 0.285	AL Tube + TC Braid	PE/BLK/ 0.405	50	CMP	68	Plenum
LMR-400-UF	Times Microwave	LMR-400	1/0.109/ -/CCA	FPE/ 0.285	AL Tube + TC Braid	UV PE/BLK/ 0.405	50	-----	68	Flexible
LMR-600	Times Microwave	LMR-600	1/0.176/ -/CCA	FPE/ 0.455	AL Tube + TC Braid	PE/BLK/ 0.590	50	-----	131	-----
LMR-600-DB	Times Microwave	LMR-600	1/0.176/ -/CCA	FPE/ 0.455	AL Tube + TC Braid	PE/BLK/ 0.590	50	-----	133	Direct Burial

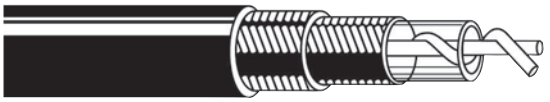
Industrial Automation

Industrial Automation

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
B7502A	Belden	RG59	19/0.031/ 22/SCBeCu	FPE/ 0.146	95% TC French Braid	PVC/BLU/ 0.242	75	-----	34	Belflex
B3094A	Belden	RG11	1/0.064/ 14/BCCS	FFEP/ 0.280	Quad	PVC/GRY/ 0.407	75	CMR, CL2R	67	Control Bus
B3095A	Belden	RG11	1/0.064/ 14/BCCS	FFEP/ 0.280	Quad	PVDF/GRY/ 0.387	75	CMP	76	Control Bus
B7504A	Belden	RG11	259/0.065/ 16/BC	FPE/ 0.285	95% TC French Braid	PVC/BLU/ 0.405	75	-----	84	Belflex
B3131A	Belden	RG6	1/0.040/ 18/BCCS	FPE/ 0.180	Quad	PVC/GRY/ 0.300	75	CL2R, CMR	21	Control Bus
B3132A	Belden	RG6	1/0.040/ 18/BCCS	FFEP/ 0.170	Quad	PVDF/GRY/ 0.274	75	CMP	36	Control Bus
B7503A	Belden	RG6	105/0.040/ 20/BC	FPE/ 0.185	95% TC French Braid	PVC/BLU/ 0.275	75	AWM	40	Belflex
B123092A	Belden	RG6	1/0.040/ 18/BCCS	PVC/BLK/ 0.600	Quad	PVC/BLK/ 0.600	75	CM	150	Aluminum Interlocked Armor
B183092A	Belden	RG6	1/0.040/ 18/BCCS	FPE/ 0.180	Quad	PVC/BLK/ 0.570	75	CL2, CM	154	Aluminum Corrugated Armor
B3092A	Belden	RG6	1/0.040/ 18/BCCS	FPE/ 0.180	Quad	PVC/BLK/ 0.298	75	CL2R, CMR	37	Modbus
B3092F	Belden	RG6	105/0.040/ 20/BC	FPE/ 0.183	Quad	PVC/BLK/ 0.303	75	CL2R, CMR	44	Modbus
B3093A	Belden	RG6	1/0.040/ 18/BCCS	FFEP/ 0.170	Quad	PVDF/BLK/ 0.274	75	CMP	40	Also In Blue
B7500A	Belden	SUB MINI	7/0.012/ 30/TCB	FPE/ 0.056	95% TC French Braid	PVC/BLU/ 0.110	75	-----	9	Belflex
B7501A	Belden	MINI	19/0.019/ 25/BC	FPE/ 0.090	95% TC French Braid	PVC/BLU/ 0.146	75	-----	14	Belflex
B8700	Belden	MINI	1/0.013/ 28/TC	PP/ 0.023	90% BC Braid	PVC/BLK/ 0.054	32	CM	3	-----
B89907	Belden	RG58	19/0.037/ 20/TC	FFEP/ 0.095	Foil + 93% TC Braid	PVDF/GRY/ 0.160	50	CMP, CL2P	24	10BASE-2
B3079E	Belden	Profibus	7/-/ 22/BC	FRFPE	Foil + 65% TC Braid	PVC/PUR/ 0.315	150	CMG/PLTC	44	-----

M17 MIL-Spec

M17/MIL-DTL-17 Coaxial Cable



MIL-DTL-17

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
M17/002-RG6	-----	RG6	1/0.029/ 22/CCS	PE/ 0.185	1 SCC Braid + 1 BC Braid	NC-PVC/BLK/ 0.332	75	M17	82	Use /180
M17/006-RG11	-----	RG11	7/0.048/ 18/TC	PE/ 0.285	BC Braid	NC-PVC/BLK/ 0.405	75	M17	98	Use /181
B9212	Belden	RG11	7/0.048/ 18/TC	PE/ 0.285	BC Braid	NC-PVC/BLK/ 0.405	75	M17/CMH	105	M17/006-RG11
M17/006-RG12	-----	RG12	7/0.048/ 18/TC	PE/ 0.285	BC Braid	NC-PVC/BLK/ 0.463	75	M17	144	Armored Use /181
M17/015-RG22	-----	RG22	7/0.046/ 18/BC	PE/ 0.285	2-TC Braids	NC-PVC/BLK/ 0.420	95	M17	134	Use /182 2C
M17/015-RG111	-----	RG111	7/0.046/ -/BC	PE/ 0.285	2-TC Braids	NC-PVC/BLK/ 0.478	95	M17	161	Armored Use /182 2C
M17/016-RG23	-----	RG23	7/0.086/ 14/BC	PE/ 0.380	2-BC Braids	NC-PVC/BLK/ 0.650 x 0.945	125	M17	53	No QPL 2C
M17/016-RG24	-----	RG24	7/0.086/ 14/BC	PE/ 0.380	2-BC Braids	NC-PVC/BLK/ 0.708 x 1.003	125	M17	73	No QPL 2C
M17/019-RG25	-----	RG25	19/0.059/ 15/TC	RUB/ 0.288	2-TC Braids	RUB/BLK/ 0.505	48	M17	225	No QPL
M17/021-RG26	-----	RG26	19/0.059/ 15/TC	RUB/ 0.288	TC Braid	RUB/BLK/ 0.505	48	M17	210	No QPL Armor
M17/022-00001	-----	-----	19/0.093/ 12/TC	RUB/ 0.455	TC Braid	RUB/BLK/ 0.595	48	M17	330	No QPL
M17/022-RG27	-----	RG27	19/0.093/ 12/TC	RUB/ 0.455	TC Braid	RUB/BLK/ 0.670	48	M17	330	No QPL Armor
M17/023-RG28	-----	RG28	19/0.093/ 12/TC	RUB/ 0.455	1 TC Braid + 1 GS Braid	RUB/BLK/ 0.735	48	-----	400	No QPL
M17/024-RG34	-----	RG34	7/0.075/ 14/TC	PE/ 0.460	BC Braid	NC-PVC/BLK/ 0.630	75	-----	231	No QPL
M17/028-RG58	-----	RG58	19/0.036/ 20/TC	PE/ 0.116	TC Braid	NC-PVC/BLK/ 0.195	50-S	M17	26	Use /183
B9203	Belden	RG58	19/0.036/ 20/TC	PE/ 0.116	TC Braid	NC-PVC/BLK/ 0.195	50	M17	26	M17/028-RG58
M17/029-RG59	-----	RG59	1/0.023/ 24/CCS	PE/ 0.146	BC Braid	NC-PVC/BLK/ 0.242	75	M17	35	Use /184
B9204	Belden	RG59	1/0.023/ 24/CCS	PE/ 0.146	BC Braid	NC-PVC/BLK/ 0.242	75	M17/CMH	39	M17/029-RG59
M17/030-RG62	-----	RG62	1/0.025/ 22/CCS	ASPE/ 0.146	BC Braid	NC-PVC/BLK/ 0.242	93	M17	38	Use /185
B9862	Belden	RG62	1/0.025/ 22/CCS	ASPE/ 0.146	BC Braid	NC-PVC/BLK/ 0.242	93	M17/CMX	38	M17/030-RG62
M17/031-RG63	-----	RG63	1/0.025/ 22/CCS	ASPE/ 0.285	BC Braid	NC-PVC/BLK/ 0.405	125	M17	87	Use /218
B9857	Belden	RG63	1/0.025/ 22/CCS	ASPE/ 0.285	BC Braid	NC-PVC/BLK/ 0.405	125	M17/CMH	94	M17/031-RG63
M17/031-RG79	-----	RG79	1/0.025/ 22/CCS	ASPE/ 0.285	BC Braid	NC-PVC/BLK/ 0.475	125	M17	138	Armor Use /218

M17 MIL-Spec

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
M17/033-RG64	-----	RG64	19/0.059/ 15/TC	RUB/ 0.288	2-TC Braids	RUB/BLK/ 0.450	48	M17	220	No QPL
M17/034-RG65	-----	RG65	1/0.128/ 10/MW	PE/ 0.285	BC Braid	NC-PVC/BLK/ 0.405	950	M17	110	No QPL
M17/045-RG108	-----	RG108	7/0.038/ 20/TC	PE/ 0.079	TC Braid	NC-PVC/BLK/ 0.235	78	M17	35	Use /186 Twinax
B9859	Belden	RG108	7/0.038/ 20/TC	PE/ 0.079	TC Braid	NC-PVC/BLK/ 0.235	78	M17	35	M17/045-RG108 Twinax
M17/047-RG114	-----	RG114	1/0.007/ 33/CCS	ASPE/ 0.285	BC Braid	NC-PVC/BLK/ 0.405	185	M17	89	Use /208
M17/052-00001	-----	-----	1/0.102/ 10/BC	TFE/ 0.332	2-BC Braids	FG BRD/BRN/ 0.485	50-S	M17	228	No QPL Hi Freq
M17/052-RG119	-----	RG119	1/0.102/ 18/BC	TFE/ 0.332	2-BC Braids	FG BRD/BRN/ 0.465	50-S	M17	228	-----
M17/052-RG120	-----	RG120	1/0.102/ 10/BC	TFE/ 0.332	2-BC Braids	FG BRD/BRN/ 0.525	50-S	M17	286	Armor
M17/054-RG122	-----	RG122	7/0.031/ 22/TC	PE/ 0.096	TC Braid	NC-PVC/BLK/ 0.160	50-S	M17	21	Use /187
M17/056-RG130	-----	RG130	7/0.089/ 14/BC	PE/ 0.474	TC Braid	NC-PVC/BLK/ 0.625	95	M17	300	No QPL 2C
M17/056-RG131	-----	RG131	7/0.089/ 14/BC	PE/ 0.474	TC Braid	NC-PVC/BLK/ 0.710	95	M17	400	No QPL Armor 2C
M17/060-RG142	-----	RG142	1/0.037/ 18/SCCS	TFE/ 0.116	2-SCC Braids	FEP/BRN/ 0.195	50-S	M17	43	-----
B84142	Belden	RG142	1/0.037/ 19/SCCS	TFE/ 0.116	2-SCC Braids	FEP/BRN/ 0.195	50-S	M17/CMP	44	M17/060-RG142
M17/062-RG144	-----	RG144	7/0.053/ 16/SCCS	TFE/ 0.285	SCC Braid	FG BRD/BLK/ 0.410	75	M17	130	-----
M17/064-RG35	-----	RG35	1/0.105/ 12/BC	PE/ 0.680	BC Braid	NC-PVC/BLK/ 0.945	75	M17	545	No QPL Armor
M17/064-RG164	-----	RG164	1/0.105/ 12/BC	PE/ 0.680	BC Braid	NC-PVC/BLK/ 0.878	75	M17	505	No QPL Use /209
M17/065-RG165	-----	RG165	7/0.094/ 12/SCC	TFE/ 0.285	SCC Braid	FG BRD/BRN/ 0.410	50-S	M17	142	-----
M17/065-RG166	-----	RG166	7/0.094/ 12/SCC	TFE/ 0.285	SCC Braid	FG BRD/BRN/ 0.470	50-S	M17	189	Armor
M17/067-RG177	-----	RG177	1/0.195/ 7/BC	PE/ 0.680	2-SCS Braids	NC-PVC/BLK/ 0.895	50-S	M17	520	Use /210
M17/072-RG211	-----	RG211	1/0.192/ 7/BC	TFE/ 0.620	BC Braid	FG BRD/BRN/ 0.730	50-S	M17	516	No QPL
M17/073-RG212	-----	RG212	1/0.056/ 16/SCC	PE/ 0.185	2-SCC Braids	NC-PVC/BLK/ 0.332	50-S	M17	89	Use /188
M17/074-RG213	-----	RG213	7/0.088/ 13/BC	PE/ 0.285	BC Braid	NC-PVC/BLK/ 0.405	50-S	M17	111	Use /189
M17/074-RG215	-----	RG215	7/0.088/ 13/BC	PE/ 0.285	BC Braid	NC-PVC/BLK/ 0.475	50-S	M17	138	Use /189
M17/075-RG214	-----	RG214	7/0.088/ 13/SCC	PE/ 0.285	2-SCC Braids	NC-PVC/BLK/ 0.425	50-S	M17	130	Use /190
M17/075-RG365	-----	RG365	7/0.088/ 13/SCC	PE/ 0.285	2-SCC Braids	TPE/BLK/ 0.425	50-S	M17	130	-----
M17/077-RG216	-----	RG216	7/0.048/ 18/TC	PE/ 0.285	2-BC Braids	NC-PVC/BLK/ 0.425	75	M17	124	Use /191
M17/078-RG217	-----	RG217	1/0.106/ 12/BC	PE/ 0.370	2-BC Braids	NC-PVC/BLK/ 0.545	50-S	M17	225	Use /192

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M17 MIL-Spec

(continued) M17/MIL-DTL-17 Coaxial Cable

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
M17/078-00001	-----	-----	1/0.106/ 12/BC	PE/ 0.370	2-BC Braids	NC-PVC/BLK/ 0.545	50-S	M17	225	Temperature Cycled
M17/079-RG218	-----	RG218	1/0.195/ 7/BC	PE/ 0.680	BC Braid	NC-PVC/BLK/ 0.870	50-S	M17	510	Use /193
M17/079-RG219	-----	RG219	1/0.195/ 7/BC	PE/ 0.680	BC Braid	NC-PVC/BLK/ 0.945	50-S	M17	550	Armor Use /193
M17/081-00001	-----	-----	1/0.260/ 4/BC	PE/ 0.910	BC Braid	NC-PVC/BLK/ 1.120	50	M17	820	-----
M17/081-00002	-----	-----	1/0.260/ 4/BC	PE/ 0.910	BC Braid	NC-PVC/BLK/ 1.195	50	M17	880	Armor Use /181
M17/084-RG223	-----	RG223	1/0.035/ 19/SCC	PE/ 0.116	2-SCC Braids	NC-PVC/BLK/ 0.212	50-S	M17	41	-----
M17/086-00001	-----	-----	7/0.094/ 13/SCC	TFE/ 0.285	2-SCC Braids	FG BRD/BRN/ 0.430	50	M17	195	-----
M17/086-00002	-----	-----	7/0.094/ 13/SCC	TFE/ 0.285	2-SCC Braids	FG BRD/BRN/ 0.490	50	M17	210	Armor
M17/087-00001	-----	-----	19/0.127/ 10/SCC	TFE Tape/ 0.370	2-SCC Braids	FG BRD/BRN/ 0.500	50	M17	448	-----
M17/090-RG71	-----	RG71	1/0.025/ 22/CCS	ASPE/ 0.146	2-TC Braids	NC-PVC/BLK/ 0.245	93	M17	50	Use /195
M17/092-RG115	-----	RG115	7/0.084/ 13/SCC	TFE/ 0.255	2-SCC Braids	FG BRD/BRN/ 0.415	50-S	M17	185	-----
M17/092-00001	-----	-----	7/0.084/ 13/SCC	TFE/ 0.255	2-SCC Braids	FEP/BRN/ 0.344	50-S	M17	180	-----
M17/093-RG178	-----	RG178	7/0.012/ 30/SCCS	TFE/ 0.033	SCC Braid	FEP/BRN/ 0.071	50-S	M17	6	-----
M17/093-00001	-----	-----	7/0.012/ 30/SCCS	TFE/ 0.033	SCC Braid	PFA/BRN/ 0.071	50-S	M17	6	-----
M17/094-RG179	-----	RG179	7/0.012/ 30/SCCS	TFE/ 0.063	SCC Braid	FEP/BRN/ 0.109	75	M17	10	-----
M17/095-RG180	-----	RG180	7/0.012/ 30/SCCS	TFE/ 0.102	SCC Braid	FEP/BRN/ 0.141	50	M17	20	-----
M17/097-RG210	-----	RG210	1/0.025/ 22/SCCS	ASTFE/ 0.146	SCC Braid	FG BRD/BRN/ 0.242	93	M17	50	-----
M17/100-RG133	-----	RG133	1/0.025/ 22/BC	PE/ 0.285	BC Braid	NC-PVC/BLK/ 0.405	95	M17	95	No QPL
M17/109-RG301	-----	RG301	7/0.061/ 16/HR	TFE/ 0.185	HR Braid	FEP/BRN/ 0.245	50	M17	56	No QPL
M17/110-RG302	-----	RG302	1/0.025/ 22/SCCS	TFE/ 0.146	SCC Braid	FEP/BRN/ 0.202	75	M17	40	-----
M17/111-RG303	-----	RG303	1/0.037/ 18/SCCS	TFE/ 0.116	SCC Braid	FEP/BRN/ 0.170	50-S	M17	31	-----
M17/112-RG304	-----	RG304	1/0.059/ 16/SCCS	TFE/ 0.185	2-SCC Braids	FEP/BRN/ 0.280	50-S	M17	94	-----
M17/113-RG316	-----	RG316	7/0.020/ 26/SCCS	TFE/ 0.060	2-SCC Braids	FEP/BRN/ 0.098	50-S	M17	12	-----
M17/116-RG307	-----	RG307	19/0.029/ 23/SCC	FPE/ 0.146	2-SCC Braids	PE/BLK/ 0.265	75	M17	119	-----
M17/119-RG174	-----	RG174	7/0.019/ 26/CCS	PE/ 0.060	TC Braid	NC-PVC/BLK/ 0.110	50-S	M17	9	Use /176
M17/124-RG328	-----	RG328	BRD/0.485/ -/TC BRD	RUB/ 1.065	3-TC Braids	NEO/BLK/ 1.460	25	M17	166	No QPL

M17 MIL-Spec

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
M17/125-RG329	-----	RG329	19/0.059/ 16/TC	RUB/ 0.380	3-TC Braids	NEO/BLK/ 0.700	50	M17	353	No QPL
M17/126-RG391	-----	RG391	7/0.048/ 18/TC	CPE/ 0.295	TC Braid	NC-PVC/BLK/ 0.405	72	M17	100	Use /211
M17/126-RG392	-----	RG392	7/0.048/ 18/TC	CPE/ 0.295	TC Braid	NC-PVC/BLK/ 0.475	72	M17	125	Armor Use /211
M17/127-RG393	-----	RG393	7/0.094/ 12/SCC	TFE/ 0.285	2-SCC Braids	FEP/BRN/ 0.390	50-S	M17	175	-----
M17/128-RG400	-----	RG400	19/0.038/ 20/SCC	TFE/ 0.116	2-SCC Braids	FEP/BRN/ 0.195	50-S	M17	50	-----
M17/129-RG401	-----	RG401	1/0.064/ 15/SCC	TFE/ 0.209	BC Tube	UNJKT/-/ 0.250	50-S	M17	105	-----
M17/129-00001	-----	-----	1/0.064/ 15/SCC	TFE/ 0.209	TC Tube	UNJKT/-/ 0.250	50-S	M17	105	-----
M17/130-RG402	-----	RG402	1/0.036/ 19/SCCS	TFE/ 0.1175	BC Tube	UNJKT/-/ 0.141	50-S	M17	35	-----
M17/130-00001	-----	-----	1/0.036/ 19/SCCS	TFE/ 0.1175	TC Tube	UNJKT/-/ 0.250	50-S	M17	35	-----
M17/130-00002	-----	-----	1/0.0362/ 19/SNCCS	TFE/ 0.1175	BC Tube	UNJKT/-/ 0.141	50-S	M17	35	-----
M17/130-00003	-----	-----	1/0.0362/ 19/SNCCS	TFE/ 0.1175	TC Tube	UNJKT/-/ 0.141	50-S	M17	35	-----
M17/130-00004	-----	-----	1/0.0362/ 19/SCCS	TFE/ 0.1175	BC Tube	UNJKT/-/ 0.141	50-S	M17	35	-----
M17/130-00005	-----	-----	1/0.0362/ 19/SCCS	TFE/ 0.1175	TC Tube	UNJKT/-/ 0.141	50-S	M17	35	-----
M17/130-00006	-----	-----	1/0.0362/ 19/SNCCS	TFE/ 0.1175	BC Tube	UNJKT/-/ 0.141	50-S	M17	35	-----
M17/130-00007	-----	-----	1/0.0362/ 19/SNCCS	TFE/ 0.1175	TC Tube	UNJKT/-/ 0.141	50-S	M17	35	-----
M17/130-00008	-----	-----	1/0.0362/ 19/SCCS	TFE/ 0.1175	AL Tube	UNJKT/-/ 0.141	50-S	M17	19	-----
M17/130-00009	-----	-----	1/0.0362/ 19/SCCS	TFE/ 0.1175	TC AL Tube	UNJKT/-/ 0.141	50-S	M17	20	-----
M17/130-00010	-----	-----	1/0.0362/ 19/SNCCS	TFE/ 0.1175	AL Tube	UNJKT/-/ 0.141	50-S	M17	19	-----
M17/130-00011	-----	-----	1/0.0362/ 19/SNCCS	TFE/ 0.1175	TC AL Tube	UNJKT/-/ 0.141	50-S	M17	20	-----
M17/130-00012	-----	-----	1/0.0362/ 19/SCCS	TFE/ 0.1175	SC Tube	UNJKT/-/ 0.141	50-S	M17	35	-----
M17/130-00013	-----	-----	1/0.0362/ 19/SNCCS	TFE/ 0.1175	SC Tube	UNJKT/-/ 0.141	50-S	M17	35	-----
M17/130-00014	-----	-----	1/0.0362/ 19/SCC	TFE/ 0.1175	TC Tube	UNJKT/-/ 0.141	50	M17	35	-----
M17/130-00015	-----	-----	1/0.0362/ 19/SCC	TFE/ 0.1175	TC Tube	UNJKT/-/ 0.141	50	M17	35	-----
M17/131-RG403	-----	RG403	7/0.012/ 30/SCCS	TFE/ 0.033	2-SCC Braids	FEP/BRN/ 0.116	50-S	M17	15	-----
M17/132-00001	-----	-----	7/0.012/ 30/SCCS	TFE/ 0.035	SCC Braid	FEP/BRN/ 0.071	50	M17	18	-----
M17/133-RG405	-----	RG405	1/0.0201/ 26/SCCS	TFE/ 0.065	BC Tube	UNJKT/-/ 0.0865	50-S	M17	16	-----
M17/133-00001	-----	-----	1/0.0201/ 26/SCCS	TFE/ 0.066	TC Tube	UNJKT/-/ 0.0865	50-S	M17	16	-----

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M17 MIL-Spec

(continued) M17/MIL-DTL-17 Coaxial Cable

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
M17/133-00002	-----	-----	1/0.0201/ 26/SCC	TFE/ 0.066	BC Tube	UNJKT/-/ 0.0865	50-S	M17	16	-----
M17/133-00003	-----	-----	1/0.0201/ 26/SCC	TFE/ 0.066	TC Tube	UNJKT/-/ 0.0865	50-S	M17	16	-----
M17/133-00004	-----	-----	1/0.0201/ 26/SNCCS	TFE/ 0.066	BC Tube	UNJKT/-/ 0.0865	50-S	M17	16	-----
M17/133-00005	-----	-----	1/0.0201/ 26/SCCS	TFE/ 0.066	TC Tube	UNJKT/-/ 0.0865	50-S	M17	16	-----
M17/133-00006	-----	-----	1/0.0201/ 26/SCCS	TFE/ 0.066	BC Tube	UNJKT/-/ 0.0865	50-S	M17	16	-----
M17/133-00007	-----	-----	1/0.0201/ 26/SCCS	TFE/ 0.066	TC Tube	UNJKT/-/ 0.0865	50-S	M17	16	-----
M17/133-00008	-----	-----	1/0.0201/ 26/SCC	TFE/ 0.066	BC Tube	UNJKT/-/ 0.0865	50-S	M17	16	-----
M17/133-00009	-----	-----	1/0.0201/ 26/SCC	TFE/ 0.066	TC Tube	UNJKT/-/ 0.0865	50-S	M17	16	-----
M17/133-00010	-----	-----	1/0.0201/ 26/SNCCS	TFE/ 0.066	BC Tube	UNJKT/-/ 0.0865	50-S	M17	16	-----
M17/133-00011	-----	-----	1/0.0201/ 26/SNCCS	TFE/ 0.066	TC Tube	UNJKT/-/ 0.0865	50-S	M17	16	-----
M17/133-00012	-----	-----	1/0.0201/ 26/SCCS	TFE/ 0.066	AL Tube	UNJKT/-/ 0.0865	50-S	M17	8	No QPL
M17/133-00014	-----	-----	1/0.0201/ 26/SNCCS	TFE/ 0.066	AL Tube	UNJKT/-/ 0.0865	50-S	M17	8	No QPL
M17/133-00015	-----	-----	1/0.0201/ 26/SNCCS	TFE/ 0.066	TC AL Tube	UNJKT/-/ 0.0865	50-S	M17	8	No QPL
M17/133-00016	-----	-----	1/0.0201/ 26/SCCS	TFE/ 0.066	SC Tube	UNJKT/-/ 0.0865	50-S	M17	16	No QPL
M17/133-00017	-----	-----	1/0.0201/ 26/SNCCS	TFE/ 0.066	SC Tube	UNJKT/-/ 0.0865	50-S	M17	16	No QPL
M17/133-00018	-----	-----	1/0.0201/ 26/SCC	TFE/ 0.066	TC Tube	UNJKT/-/ 0.0865	50-S	M17	16	No QPL
M17/134-00001	-----	-----	1/0.033/ 22/SCC	PE/ 0.116	2-SCC Braids	HMPE/BLK/ 0.245	50-S	M17	45	Waterblocked
M17/134-00002	-----	-----	1/0.033/ 22/SCC	PE/ 0.116	2-SCC Braids	HMPE/BLK/ 0.245	50-S	M17	45	Non-Waterblocked
M17/134-00003	-----	-----	1/0.033/ 22/SCC	PE/ 0.116	2-SCC Braids	XLPE/BLK/ 0.245	50-S	M17	50	LSZH
M17/134-00004	-----	-----	1/0.033/ 22/SCC	PE/ 0.116	2-SCC Braids	XLPE/BLK/ 0.245	50-S	M17	50	LSZH
M17/135-00001	-----	-----	7/0.088/ 12/SCC	PE/ 0.285	2-SCC Braids	PUR/BLK/ 0.500	50-S	M17	160	Waterblocked
M17/135-00002	-----	-----	7/0.088/ 12/SCC	PE/ 0.285	2-SCC Braids	PUR/BLK/ 0.500	50-S	M17	160	Non-Waterblocked
M17/135-00003	-----	-----	1/0.088/ 12/SCC	PE/ 0.285	2-SCC Braids	HMPE/BLK/ 0.500	50-S	M17	185	Waterblocked
M17/135-00004	-----	-----	1/0.088/ 12/SCC	PE/ 0.285	2-SCC Braids	HMPE/BLK/ 0.500	50-S	M17	185	Non-Waterblocked
M17/135-00005	-----	-----	1/0.088/ 12/SCC	PE/ 0.285	2-SCC Braids	XLP/BLK/ 0.500	50-S	M17	185	Waterblocked LSZH
M17/135-00006	-----	-----	1/0.088/ 12/SCC	PE/ 0.285	2-SCC Braids	XLP/BLK/ 0.500	50-S	M17	185	Non-Waterblocked LSZH

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Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
M17/136-00001	-----	-----	7/0.012/ 30/SCCS	TFE/ 0.063	SCC Braid	PFA/BRN/ 0.100	75	M17	12	-----
M17/137-00001	-----	-----	7/0.012/ 30/SCCS	TFE/ 0.102	SCC Braid	PFA/BRN/ 0.141	95	M17	20	-----
M17/138-00001	-----	-----	7/0.020/ 26/SCCS	TFE/ 0.060	SCC Braid	PFA/BRN/ 0.098	50-S	M17	12	-----
M17/139-00001	-----	-----	7/0.012/ 30/SCBeCu	TFE/ 0.102	SCCadBr Braid	PFA/BRN/ 0.141	95	M17	20	-----
M17/151-00001	-----	-----	1/0.011/ 32/SCCS	TFE/ 0.037	BC Tube	UNJKT/-/ 0.047	50-S	M17	5	-----
M17/151-00002	-----	-----	1/0.011/ 32/SCCS	TFE/ 0.037	2-SCC Braids	UNJKT/-/ 0.047	50-S	M17	5	-----
M17/152-00001	-----	-----	7/0.020/ 26/SCCS	TFE/ 0.060	2-SCC Braids	FEP/BRN/ 0.114	69.5-S	M17	19	-----
M17/153-00001	-----	-----	7/0.019/ 27/SCCS	PE/ 0.060	2-SCC Braids	NC-PVC/BLK/ 0.114	50-S	M17	30	No QPL Cancelled Use /152
M17/154-00001	-----	-----	1/0.008/ 32/SCCS	TFE/ 0.026	BC Tube	UNJKT/-/ 0.034	50-S	M17	3	-----
M17/154-00002	-----	-----	1/0.008/ 32/SCCS	TFE/ 0.026	TC Tube	UNJKT/-/ 0.034	50-S	M17	3	-----
M17/155-00001	-----	-----	19/0.036/ 20/TC	PE/ 0.116	TC Braid	NC-PVC/BLK/ 0.195	50	M17	26	Use /197
B8262	-----	RG58	19/0.036/ 20/TC	PE/ 0.116	95% TC Braid	NC-PVC/BLK/ 0.195	50	M17	26	M17/028-RG58
M17/156-00001	-----	-----	1/0.102/ 11/BC	TFE/ 0.332	2-BC Braids	FG BRD/BRN/ 0.465	50	M17	240	-----
M17/157-00001	-----	-----	27/0.031/ 22/TC	PE/ 0.096	TC Braid	NC-PVC/BLK/ 0.160	50	M17	20	Use /198
B9252	-----	RG122	27/0.031/ 22/TC	PE/ 0.096	TC Braid	NC-PVC/BLK/ 0.160	50	M17/CMX	20	M17/157-00001
M17/158-00001	-----	-----	1/0.037/ 18/SCCS	TFE/ 0.116	2-SCC Braids	FEP/BRN/ 0.195	50	M17	48	-----
B83242	-----	RG142	1/0.037/ 19/SCCS	TFE/ 0.116	2-SCC Braids	FEP/BRN/ 0.195	50	M17/CMP	44	M17/158-00001
M17/159-00001	-----	-----	7/0.094/ 12/SCC	TFE/ 0.285	SCC Braid	FG BRD/BRN/ 0.410	50	M17	218	-----
M17/160-00001	-----	-----	1/0.195/ 7/BC	PE/ 0.680	2-SCC Braids	NC-PVC/BLK/ 0.895	50	M17	520	Use /212
M17/161-00001	-----	-----	1/0.192/ 7/BC	TFE/ 0.620	BC Braid	FG BRD/BRN/ 0.730	50	M17	650	No QPL
M17/161-00002	-----	-----	1/0.192/ 7/BC	TFE/ 0.620	BC Braid	FG BRD/BRN/ 0.795	50	M17	680	No QPL Armor
M17/162-00001	-----	-----	1/0.056/ 15.5/SCC	PE/ 0.185	2-SCC Braids	NC-PVC/BLK/ 0.332	50	M17	91	-----
M17/163-00001	-----	-----	7/0.089/ 13/BC	PE/ 0.285	BC Braid	NC-PVC/BLK/ 0.405	50	M17	111	-----
B8267	Belden	RG213	7/0.089/ 13/BC	PE/ 0.285	BC Braid	NC-PVC/BLK/ 0.405	50	M17	117	M17/163-00001
M17/164-00001	-----	-----	7/0.089/ 13/SCC	PE/ 0.285	2-SCC Braids	NC-PVC/BLK/ 0.425	50	M17	140	-----
B8268	Belden	RG214	7/0.089/ 13/SCC	PE/ 0.285	2-SCC Braids	NC-PVC/BLK/ 0.425	50	M17	140	M17/164-00001
M17/164-00002	-----	-----	7/0.089/ 13/SCC	PE/ 0.285	2-SCC Braids	TPE/BLK/ 0.425	50	M17	140	-----

M17 MIL-Spec

(continued) M17/MIL-DTL-17 Coaxial Cable

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
M17/165-00001	-----	-----	1/0.106/ 11/BC	PE/ 0.370	2-BC Braids	NC-PVC/BLK/ 0.545	50	M17	225	Use /215
M17/165-00002	-----	-----	1/0.106/ 11/BC	PE/ 0.370	2-BC Braids	NC-PVC/BLK/ 0.615	50	M17	310	Armor
M17/166-00001	-----	-----	1/0.195/ 7/BC	PE/ 0.680	BC Braid	NC-PVC/BLK/ 0.870	50	M17	510	Use /216
M17/167-00001	-----	-----	1/0.035/ 19/SCC	PE/ 0.117	2-SCC Braids	NC-PVC/BLK/ 0.212	50	M17	41	-----
B9273	Belden	RG223	1/0.035/ 19/SCC	PE/ 0.117	2-SCC Braids	NC-PVC/BLK/ 0.212	50	M17	39	M17/167-00001
M17/168-00001	-----	-----	7/0.084/ 13/SCC	TFE Tape/ 0.255	2-SCC Braids	FG BRD/BRN/ 0.415	50	M17	185	Use /200
M17/168-00002	-----	-----	7/0.035/ 13/SCC	TFE Tape/ 0.255	2-SCC Braids	FEP/BRN/ 0.344	50	M17	185	-----
M17/169-00001	-----	-----	7/0.012/ 30/SCCS	TFE/ 0.033	SCC Braid	FEP/WHT/ 0.071	50	M17	6	-----
B83265	Belden	RG178	7/0.012/ 30/SCCS	TFE/ 0.033	SCC Braid	FEP/WHT/ 0.071	50	M17	7	M17/169-00001
M17/170-00001	-----	-----	1/0.037/ 20/SCCS	TFE/ 0.116	SCC Braid	FEP/BRN/ 0.170	50	M17	39	-----
M17/171-00001	-----	-----	1/0.059/ 16/SCCS	TFE/ 0.185	2-SCC Braids	FEP/BRN/ 0.280	50	M17	92	-----
M17/172-00001	-----	-----	7/0.020/ 26/SCCS	TFE/ 0.059	SCC Braid	FEP/WHT/ 0.098	50	M17	12	-----
B83284	Belden	RG316	7/0.020/ 26/SCCS	TFE/ 0.059	SCC Braid	FEP/WHT/ 0.098	50	M17	11	M17/113-RG316
M17/173-00001	-----	-----	7/0.019/ 27/CCS	PE/ 0.060	TC Braid	NC-PVC/BLK/ 0.110	50	M17	10	-----
M17/174-0001	-----	-----	7/0.094/ 12/SCC	TFE/ 0.285	2-SCC Braids	FEP/BRN/ 0.390	50	M17	175	-----
M17/175-00001	-----	-----	19/0.038/ 20/SCC	TFE/ 0.116	2-SCC Braids	FEP/BRN/ 0.195	50	M17	50	-----
M17/176-00002	-----	Twinax	19/0.025/ 24/SCBeCu	TFE/ 0.042	SCBeCu Braid	PFA/BLU/ 0.129	77	M17	18	Hi Strength Alloy No QPL
B81553	Belden	Twinax	19/0.025/ 24/SCBeCu	TFE/ 0.042	SCBeCu Braid	PFA/BLU/ 0.129	77	M17	17	M17/176-00002
M17/176-00003	-----	Twinax	19/0.025/ 24/SCBeCu	FETFE/ 0.042	SCBeCu Braid	COMP/BRN/ 0.125	77	M17	16	Composite Jkt No QPL
M17/177-00001	-----	-----	7/0.012/ 30/SCCS	TFE/ 0.102	2-SCC Braids	FEP/BRN/ 0.184	95	M17	34	-----
M17/178-00001	-----	-----	7/0.012/ 30/SCCS	TFE/ 0.102	1-SCS + 1-NCC Braid	SPL/BRN/ 0.270	95	M17	60	Polyester Brd Jkt No QPL
M17/179-00001	-----	-----	7/0.012/ 30/SCCS	TFE/ 0.063	1-SCS + 1-NCC Braid	SPL/BRN/ 0.195	75	M17	36	Polyester Brd Jkt No QPL
M17/180-00001	-----	RG6	1/0.029/ 22/CCS	PE/ 0.185	1 SCC Braid + 1 BC Braid	XLPE/BLK/ 0.332	75	M17	92	LSZH M17/002-RG6
M17/181-00001	-----	RG11	7/0.048/ 18/TC	PE/ 0.285	BC Braid	XLPE/BLK/ 0.405	75	M17	108	LSZH M17/006-RG11
M17/181-00002	-----	RG12	7/0.048/ 18/TC	PE/ 0.285	BC Braid	XLPE/BLK/ 0.475	75	M17	132	LSZH Armor/181-00001
M17/182-00001	-----	RG22	7/0.046/ 18/TC	PE/ 0.285	2-TC Braids	XLPE/BLK/ 0.405	95	M17	142	LSZH M17/015-RG22 2C

M17 MIL-Spec

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
M17/182-00002	-----	-----	7/0.046/ 18/TC	PE/ 0.285	2-TC Braids	XLPE/BLK/ 0.490	95	M17	169	LSZH Armor/182-00001 2C
M17/183-00001	-----	RG58	19/0.036/ 20/TC	PE/ 0.116	TC Braid	XLPE/BLK/ 0.195	50-S	M17	30	LSZH M17/028-RG58
M17/184-00001	-----	RG59	1/0.023/ 24/CCS	PE/ 0.146	BC Braid	XLPE/BLK/ 0.242	75	M17	43	LSZH M17/029-RG59
M17/185-00001	-----	RG62	1/0.025/ 22/CCS	ASPE/ 0.146	BC Braid	XLPE/BLK/ 0.242	93	M17	42	LSZH M17/030-RG62
M17/186-00001	-----	RG108	7/0.038/ 20/TC	PE/ 0.079	TC Braid	XLPE/BLK/ 0.235	75	M17	61	LSZH M17/045-RG108 2C
M17/187-00001	-----	RG122	27/0.031/ 22/TC	PE/ 0.096	TC Braid	XLPE/BLK/ 0.160	50-S	M17	23	LSZH M17/054-RG122
M17/188-00001	-----	RG212	1/0.056/ 16/SCC	PE/ 0.185	2-SCC Braids	XLPE/BLK/ 0.332	50-S	M17	99	LSZH M17/073-RG212
M17/189-00001	-----	RG213	7/0.088/ 13/BC	PE/ 0.285	BC Braid	XLPE/BLK/ 0.405	50-S	M17	129	LSZH M17/074-RG213
M17/189-00002	-----	-----	7/0.087/ 13/BC	PE/ 0.285	BC Braid	XLPE/BLK/ 0.475	50-S	M17	146	LSZH M17/189-00001 Armor
M17/190-00001	-----	RG214	7/0.088/ 13/SCC	PE/ 0.285	2-SCC Braids	XLPE/BLK/ 0.425	50-S	M17	154	LSZH M17/075-RG214
M17/191-00001	-----	RG216	7/0.048/ 18/TC	PE/ 0.285	2-BC Braids	XLPE/BLK/ 0.425	75	M17	139	LSZH M17/077-RG216
M17/192-00001	-----	RG217	1/0.106/ 12/BC	PE/ 0.370	2-BC Braids	XLPE/BLK/ 0.545	50-S	M17	248	LSZH M17/078-RG217
M17/192-00002	-----	-----	1/0.106/ 12/BC	PE/ 0.370	BC Braid	XLPE/BLK/ 0.545	50-S	M17	240	LSZH With Temp Cycling
M17/193-00001	-----	RG218	1/0.195/ 7/BC	PE/ 0.680	BC Braid	XLPE/BLK/ 0.870	50-S	M17	521	LSZH M17/079-RG218
M17/193-00002	-----	-----	1/0.195/ 7/BC	PE/ 0.680	BC Braid	XLPE/BLK/ 0.945	50-S	M17	571	LSZH M17/193-00001 Armor
M17/194-00001	-----	RG223	1/0.035/ 19/SCC	PE/ 0.116	2-SCC Braids	XLPE/BLK/ 0.212	50-S	M17	44	LSZH M17/084-RG223
M17/195-00001	-----	RG71	1/0.025/ 22/CCS	ASPE/ 0.146	2-TC Braids	XLPE/BLK/ 0.245	93	M17	53	LSZH M17/090-RG71
M17/196-00001	-----	RG174	7/0.019/ 26/CCS	PE/ 0.060	TC Braid	XLPE/BLK/ 0.110	50-S	M17	9	LSZH M17/119-RG274
M17/197-00001	-----	-----	19/0.036/ 20/TC	PE/ 0.116	TC Braid	XLPE/BLK/ 0.195	50	M17	31	LSZH M17/155-00001
M17/198-00001	-----	-----	27/0.031/ 22/TC	PE/ 0.096	TC Braid	XLPE/BLK/ 0.160	50	M17	24	LSZH M17/157-00001
M17/199-00001	-----	-----	1/0.056/ 15.5/SCC	PE/ 0.185	2-SCC Braids	XLPE/BLK/ 0.332	50	M17	100	LSZH M17/162-00001
M17/200-00001	-----	-----	1/0.035/ 19/SCC	PE/ 0.117	2-SCC Braids	XLPE/BLK/ 0.212	50	M17	44	LSZH M17/167-00001
M17/201-00001	-----	Twinax	19/0.025/ 24/SCBeCu	XLETFE/ 0.052	TC Braid	XLETFE/BLK/ 0.137	77	M17	15	Data Bus Cable No QPL
M17/201-00002	-----	Twinax	19/0.031/ 22/SCBeCu	XLETFE/ 0.064	TC Braid	XLETFE/BLK/ 0.165	77	M17	22	Data Bus Cable No QPL
M17/201-00003	-----	Twinax	19/0.025/ 24/SCBeCu	XLETFE/ 0.048	TC Braid	XLETFE/BLK/ 0.130	77	M17	16	Data Bus Cable No QPL
M17/202-00001	-----	Twinax	19/0.025/ 24/SCBeCu	XLETFE/ 0.048	2-TC Braids	XLETFE/BLK/ 0.147	77	M17	27	Data Bus Cable No QPL
M17/203-00001	-----	Twinax	19/0.025/ 24/SCBeCu	XLETFE/ 0.048	2-TC Braids	XLETFE/BLK/ 0.161	77	M17	29	Data Bus Cable No QPL

Continued on next page >>

M17 MIL-Spec

(continued) M17/MIL-DTL-17 Coaxial Cable

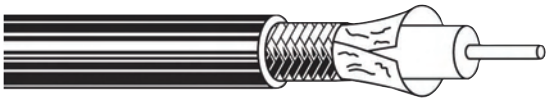
Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
M17/205-00018	-----	-----	1/0.030/ 22/SCC	LDTFE/ 0.083	Helical SPC Tape	PFA/BRN/ 0.120	50-S	M17	15	No QPL
M17/205-00050	-----	-----	1/0.030/ 22/SCC	LDTFE/ 0.083	Helical SPC Tape	PFA/BRN/ 0.120	50-S	M17	15	No QPL
M17/206-00018	-----	-----	1/0.037/ 19/SCC	TFE/ 0.117	SC/Polymide	FEP/BRN/ 0.169	50-S	M17	40	No QPL
M17/206-00030	-----	-----	1/0.037/ 19/SCC	TFE/ 0.117	SC/Polymide	FEP/BRN/ 0.169	50-S	M17	40	No QPL
M17/208-00001	-----	RG114	1/0.007/ 33/CCS	ASPE/ 0.285	BC Braid	XLPE/BLK/ 0.405	185	M17	89	LSZH M17/047-RG114 No QPL
M17/209-00001	-----	RG164	1/0.105/ 12/BC	PE/ 0.680	BC Braid	XLPE/BLK/ 0.878	75	M17	505	LSZH M17/064-RG164 No QPL
M17/210-00001	-----	RG177	1/0.195/ 7/BC	PE/ 0.680	2-SCS Braids	XLPE/BLK/ 0.895	50-S	M17	572	LSZH M17/067-RG177 No QPL
M17/211-00001	-----	RG391	7/0.048/ 18/TC	CPE/ 0.295	TC Braid	XLPE/BLK/ 0.405	72	M17	110	LSZH M17/126-RG391
M17/211-00002	-----	-----	7/0.048/ 18/TC	CPE/ 0.295	TC Braid	XLPE/BLK/ 0.475	72	M17	135	Armor /211-00001
M17/212-00001	-----	-----	1/0.195/ 7/BC	PE/ 0.680	2-SCC Braids	XLPE/BLK/ 0.895	50	M17	572	LSZH M17/160-00001
M17/213-00001	-----	-----	7/0.089/ 13/BC	PE/ 0.285	BC Braid	XLPE/BLK/ 0.405	50	M17	121	LSZH M17/163-00001
M17/214-00001	-----	-----	7/0.089/ 13/SCC	PE/ 0.285	2-SCC Braids	XLPE/BLK/ 0.425	50	M17	154	LSZH M17/164-00001
M17/215-00001	-----	-----	1/0.106/ 11/BC	PE/ 0.370	2-BC Braids	XLPE/BLK/ 0.545	50	M17	248	LSZH M17/165-00001
M17/216-00001	-----	-----	1/0.195/ 7/BC	PE/ 0.680	BC Braid	XLPE/BLK/ 0.870	50	M17	521	LSZH M17/166-00001
M17/217-00001	-----	-----	7/0.019/ 27/CCS	PE/ 0.060	TC Braid	XLPE/BLK/ 0.110	50	M17	10	LSZH M17/173-00001
M17/218-00001	-----	RG63	1/0.025/ 22/CCS	ASPE/ 0.285	BC Braid	XLPE/BLK/ 0.405	125	M17	95	LSZH M17/031-RG63
M17/218-00002	-----	-----	1/0.025/ 22/CCS	ASPE/ 0.285	BC Braid	XLPE/BLK/ 0.475	125	M17	138	Armor /218-00001
M17/219-00001	-----	-----	1/0.023/ 24/SCCS	PTFE/ 0.076	BC Tube	UNJKT/-/ 0.096	50-S	M17	22	Proposed Spec
M17/220-00001	-----	-----	1/0.044/ 19/BC	FPE/ 0.116	TC Braid + AL Tape	XLPE/BLK/ 0.195	50-S	M17	37	LSZH Low Loss
M17/220-00002	-----	-----	1/0.044/ 19/BC	FPE/ 0.116	TC Braid + AL Tape	XLPE/BLK/ 0.265	50-S	M17	52	Armor M17/220-00001
M17/221-00001	-----	-----	1/0.056/ 16/BC	FPE/ 0.150	TC Braid + AL Tape	XLPE/BLK/ 0.242	50-S	M17	52	LSZH Low Loss
M17/221-00002	-----	-----	1/0.056/ 16/BC	FPE/ 0.150	TC Braid + AL Tape	XLPE/BLK/ 0.312	50-S	M17	66	Armor M17/221-00001
M17/222-00001	-----	-----	1/0.070/ 14/BC	FPE/ 0.190	TC Braid + AL Tape	XLPE/BLK/ 0.300	50-S	M17	87	LSZH Low Loss
M17/222-00002	-----	-----	1/0.070/ 14/BC	FPE/ 0.190	TC Braid + AL Tape	XLPE/BLK/ 0.370	50-S	M17	105	Armor M17/222-00001
M17/223-00001	-----	-----	1/0.108/ -/CCA	FPE/ 0.285	TC Braid + AL Tape	XLPE/BLK/ 0.405	50-S	M17	114	LSZH Low Loss
M17/223-00002	-----	-----	1/0.108/ -/CCA	FPE/ 0.285	TC Braid + AL Tape	XLPE/BLK/ 0.475	50-S	M17	140	Armor M17/223-00001

M17 MIL-Spec

Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
M17/224-00001	-----	-----	1/0.142/ -/CCA	FPE/ 0.370	TC Braid + AL Tape	XLPE/BLK/ 0.500	50-S	M17	132	LSZH Low Loss
M17/224-00002	-----	-----	1/0.142/ -/CCA	FPE/ 0.370	TC Braid + AL Tape	XLPE/BLK/ 0.500	50-S	M17	163	Armor M17/224-00001
M17/225-00001	-----	-----	1/0.176/ -/CCA	FPE/ 0.455	TC Braid + AL Tape	XLPE/BLK/ 0.590	50-S	M17	168	LSZH Low Loss
M17/225-00002	-----	-----	1/0.176/ -/CCA	FPE/ 0.455	TC Braid + AL Tape	XLPE/BLK/ 0.665	50-S	M17	204	Armor M17/225-00001
M17/226-00001	-----	-----	1/0.262/ -/BC Tube	FPE/ 0.680	TC Braid + AL Tape	XLPE/BLK/ 0.870	50-S	M17	375	LSZH Low Loss
M17/226-00002	-----	-----	1/0.262/ -/BC Tube	FPE/ 0.680	TC Braid + AL Tape	XLPE/BLK/ 0.945	50-S	M17	427	Armor M17/226-00001
M17/227-00001	-----	-----	1/0.349/ -/BC Tube	FPE/ 0.920	TC Braid + AL Tape	XLPE/BLK/ 1.200	50-S	M17	686	LSZH Low Loss
M17/227-00002	-----	-----	1/0.349/ -/BC Tube	FPE/ 0.920	TC Braid + AL Tape	XLPE/BLK/ 1.300	50-S	M17	758	Armor M17/00001
M17/228-00001	-----	-----	1/0.527/ -/BC Tube	FPE/ 1.350	TC Braid + AL Tape	XLPE/BLK/ 1.670	50-S	M17	1,050	LSZH Low Loss
M17/228-00002	-----	-----	1/0.527/ -/BC Tube	FPE/ 1.350	TC Braid + AL Tape	XLPE/BLK/ 1.720	50-S	M17	1,130	Armor M17/228-00001

Wireless/Conformable

Wireless/Conformable



Anixter No.	Vendor	RG Type	Conductor Stranding/Dia./ AWG/Type	Insulation Material/ (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Approx. Wt. lb./ 1,000 ft.	Notes/ Special Features
B1672A	Belden	Conformable	1/0.011/ 29/SCCS	TFE/ 0.062	CT Comp 100%	UNJKT/-/ 0.087	75	14	No Jacket
B1672B	Belden	Conformable	1/0.011/ 29/SCC	TFE/ 0.062	CT Comp 100%	UNJKT/-/ 0.087	75	14	No Jacket
B1672J	Belden	Conformable	1/0.011/ 29/SCCS	TFE/ 0.062	CT Comp 100%	PVC/BLK/ 0.127	75	17	No Jacket
B1674A	Belden	M17/151	1/0.011/ 29/SCCS	TFE/ 0.034	CT Comp 100%	UNJKT/-/ 0.047	50	5	No Jacket
B1674B	Belden	M17/151	1/0.011/ 29/SCC	TFE/ 0.034	CT Comp 100%	UNJKT/-/ 0.047	50	5	No Jacket
B1675A	Belden	RG401	1/0.065/ 14/SCC	TFE/ 0.210	CT Comp 100%	UNJKT/-/ 0.246	50	81	No Jacket
B1675J	Belden	RG401	1/0.065/ 14/SCC	TFE/ 0.210	CT Comp 100%	PVC/CLR/ 0.286	50	90	-----
B1673A	Belden	RG402	1/0.036/ 19/SCCS	TFE/ 0.116	CT Comp 100%	UNJKT/-/ 0.138	50	30	No Jacket
B1673B	Belden	RG402	1/0.036/ 19/SCC	TFE/ 0.116	CT Comp 100%	UNJKT/-/ 0.138	50	30	No Jacket
B1673J	Belden	RG402	1/0.037/ 19/SCCS	TFE/ 0.116	CT Comp 100%	PVC/BLK/ 0.178	50	35	-----
B1671A	Belden	RG405	1/0.020/ 24/SCCS	TFE/ 0.062	CT Comp 100%	UNJKT/-/ 0.085	50	14	No Jacket
B1671B	Belden	RG405	1/0.020/ 24/SCC	TFE/ 0.062	CT Comp 100%	UNJKT/-/ 0.085	50	14	No Jacket
B1671J	Belden	RG405	1/0.020/ 24/SCCS	TFE/ 0.062	CT Comp 100%	PVC/BLK/ 0.127	50	18	-----

5

Security Low-voltage Cable

BELDEN

General Cable

TAPPAN Wire & Cable Inc.

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Is a Breach of Security.

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- NEC riser and plenum rated; UL and C(UL) listed as applicable.
- A unique composite cable design, Access Control Banana Peel® strips away installation time and labor.
- Rip cords for easy jacket removal and sequential footage markings on the jacket to eliminate guesswork and waste.

For space savings and to help eliminate waste, many product codes also are available with Belden's new Belcoil® packaging — a revolutionary new tangle-proof packaging concept.

So look to the top dog. Look to Belden for your next security installation.

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Belden New Generation

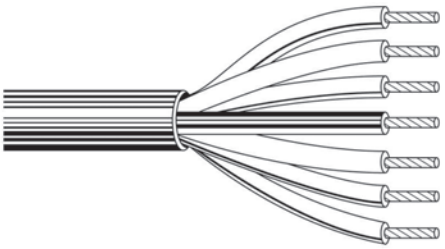
Riser Unshielded CMR/CL3R

BELDEN

Power limited circuit and communications cable for use in riser and conduit. For use in remote control, signaling, security systems, communications, intercom/P.A. systems, speaker, sound, audio and nurse call.

SPECIFICATIONS

1. CONDUCTOR: Solid or stranded bare copper
2. INSULATION: Polyvinyl chloride (PVC) or polypropylene (PP)
3. JACKET: Gray PVC with rip cord. Speaker cable constructions available in additional colors
4. STANDARDS: NEC: CMR (22-16 AWG), CL3R (14-12 AWG)
5. TEMPERATURE: 75°C



Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5000UE	12	19x25	2	0.011	0.015	0.260	54
B5001UE	12	19x25	3	0.011	0.017	0.277	79
B5100UE	14	19x27	2	0.011	0.017	0.226	37
B5101UE	14	19x27	3	0.011	0.017	0.232	53
B5102UE	14	19x27	4	0.011	0.017	0.266	69
B5200UE	16	19x29	2	0.007	0.017	0.176	23
B5201UE	16	19x29	3	0.007	0.017	0.187	35
B5202UE	16	19x29	4	0.007	0.017	0.205	44
B5205UE	16	19x29	7	0.007	0.018	0.249	73
B5320UE	18	Solid	2	0.007	0.017	0.143	16
B5300UE	18	7x26	2	0.007	0.017	0.152	16
B5321UE	18	Solid	3	0.007	0.017	0.151	22
B5301UE	18	7x26	3	0.007	0.017	0.161	23
B5322UE	18	Solid	4	0.007	0.017	0.166	28
B5302UE	18	7x26	4	0.007	0.017	0.179	30
B5303UE	18	7x26	5	0.007	0.017	0.193	38
B5304UE	18	7x26	6	0.007	0.017	0.211	44
B5305UE	18	7x26	7	0.010	0.015	0.226	47
B5306UE	18	7x26	8	0.008	0.018	0.241	57
B5307UE	18	7x26	9	0.007	0.018	0.249	62
B5308UE	18	7x26	10	0.007	0.018	0.272	70
B5309UE	18	7x26	12	0.007	0.018	0.281	65
B530BUE	18	7x26	20	0.010	0.025	0.400	141
B5400UE	20	7x28	2	0.007	0.017	0.134	13
B5401UE	20	7x28	3	0.007	0.017	0.142	18
B5402UE	20	7x28	4	0.007	0.017	0.155	21
B5403UE	20	7x28	5	0.007	0.017	0.169	26
B5405UE	20	7x28	7	0.007	0.018	0.186	34
B5406UE	20	7x28	8	0.007	0.018	0.202	38
B5407UE	20	7x28	9	0.007	0.017	0.217	45
B5408UE	20	7x28	10	0.010	0.015	0.254	46
B5409UE	20	7x28	12	0.010	0.015	0.262	62
B540BUE	20	7x28	20	0.010	0.025	0.347	110
B5520UE	22	Solid	2	0.007	0.017	0.114	8
B5500UE	22	7x30	2	0.007	0.017	0.118	9

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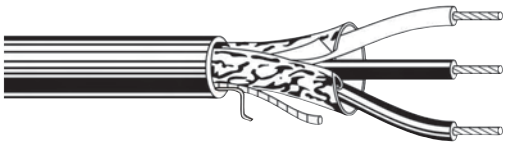
Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5501UE	22	7x30	3	0.007	0.017	0.124	12
B5522UE	22	Solid	4	0.010	0.017	0.130	16
B5582UE	22	Solid	4	0.010	0.017	0.130	12
B5502UE	22	7x30	4	0.007	0.015	0.135	15
B5503UE	22	7x30	5	0.010	0.015	0.162	20
B5524UE	22	Solid	6	0.010	0.015	0.168	22
B5504UE	22	7x30	6	0.007	0.017	0.160	20
B5526UE	22	Solid	8	0.010	0.015	0.182	28
B5506UE	22	7x30	8	0.008	0.015	0.183	30
B5508UE	22	7x30	10	0.010	0.015	0.226	34
B5529UE	22	Solid	12	0.010	0.015	0.221	42
B5509UE	22	7x30	12	0.007	0.018	0.210	36

Belden New Generation

Riser Shielded CMR/CL3R

BELDEN

Power limited circuit and communications cable for riser and conduit. For use in remote control, signaling, security systems, communications, intercom/P.A. systems, sound/audio and nurse call.



SPECIFICATIONS

1. CONDUCTOR: Solid or stranded bare copper
2. INSULATION: Polyvinyl chloride (PVC) or polypropylene (PP)
3. SHIELDING: Beldfoil shield applied overall with a drain wire
4. JACKET: Gray polyvinyl chloride (PVC) with rip cord
5. STANDARDS: NEC: CMR (22-16 AWG), CL3R (14-12 AWG), and FPLR (2C 12 AWG and 2C 14 AWG) when jacket is red
6. TEMPERATURE: 75°C

Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5000FE	12	19x25	2	0.014	0.017	0.264	59
B5100FE	14	19x27	2	0.011	0.017	0.222	38
B5101FE	14	19x27	3	0.014	0.015	0.253	53
B5200FE	16	19x29	2	0.007	0.017	0.180	31
B5201FE	16	19x29	3	0.007	0.017	0.191	36
B5202FE	16	19x29	4	0.007	0.017	0.209	46
B5320FE	18	Solid	2	0.010	0.015	0.155	18
B5300FE	18	7x26	2	0.007	0.017	0.156	19
B5301FE	18	7x26	3	0.007	0.017	0.165	26
B5302FE	18	7x26	4	0.007	0.017	0.180	32
B5303FE	18	7x26	5	0.007	0.017	0.197	39
B5304FE	18	7x26	6	0.007	0.017	0.215	45
B5305FE	18	7x26	7	0.010	0.015	0.230	52
B5306FE	18	7x26	8	0.007	0.018	0.235	60
B5307FE	18	7x26	9	0.007	0.018	0.254	64
B5400FE	20	7x28	2	0.007	0.017	0.138	14
B5421FE	20	Solid	3	0.010	0.015	0.146	18
B5401FE	20	7x28	3	0.010	0.017	0.145	19
B5402FE	20	7x28	4	0.007	0.017	0.159	23
B5403FE	20	7x28	5	0.007	0.017	0.172	28
B5405FE	20	7x28	7	0.007	0.018	0.189	36
B5407FE	20	7x28	9	0.007	0.018	0.220	45
B5520FE	22	Solid	2	0.007	0.017	0.118	10
B5500FE	22	7x30	2	0.007	0.017	0.121	11
B5521FE	22	Solid	3	0.010	0.015	0.132	12
B5501FE	22	7x30	3	0.007	0.017	0.127	15
B5502FE	22	7x30	4	0.007	0.017	0.139	18
B5503FE	22	7x30	5	0.007	0.017	0.157	22
B5504FE	22	7x30	6	0.007	0.017	0.164	29
B5506FE	22	7x30	8	0.007	0.018	0.179	32
B5508FE	22	7x30	10	0.010	0.015	0.230	36

Belden New Generation

CM Unshielded

BELDEN

Power limited circuit and communications cable use in conduits.

For use in remote control, signaling, security systems, communications, intercom/P.A. systems, speaker, sound, audio and nurse call.

SPECIFICATIONS

1. CONDUCTOR: Solid or stranded bare copper
2. INSULATION: Polypropylene (PP)
3. JACKET: Polyvinyl chloride (PVC) in colors, with rip cord
4. STANDARDS: NEC: CM
5. TEMPERATURE: 75°C

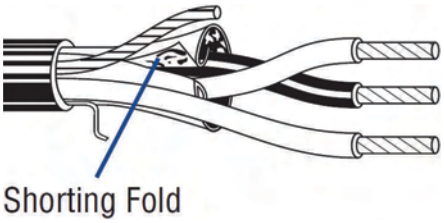
Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5300UG	18	7x26	2	0.006	0.015	0.148	17
B5500UG	22	Solid	2	0.006	0.015	0.114	9
B5582UG	22	Solid	4	0.006	0.015	0.122	13
B5502UG	22	7x30	4	0.006	0.015	0.131	13

Riser Specialty Composites CMR

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Bare copper
2. INSULATION: Polyvinyl chloride (PVC)
3. SHIELDING: Beldfoil
4. JACKET: Gray polyvinyl chloride (PVC) with rip cord
5. STANDARDS: NEC: CMR; CEC: CMG, FT4
6. VOLTAGE RATING: 300 V
7. TEMPERATURE: 75°C



APPLICATIONS

For use in security systems, communications, intercom/P.A. systems, sound/audio systems and power-limited controls.

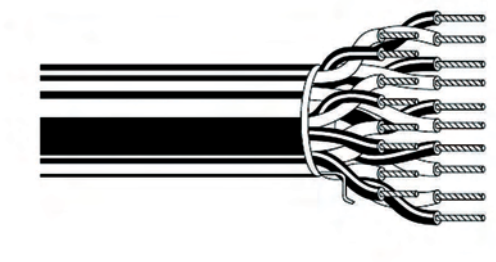
Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5302GE	18	1 STP + 2C	7x26	0.010	0.015	0.225	37
B5401GE	20	1 STP + 1C	7x28	0.010	0.015	0.196	23
B5402GE	22	1 STP + 2C	7x30	0.010	0.015	0.200	26
B5501GE	22	1 STP + 2C	7x30	0.010	0.015	0.171	16
B5502GE	22	1 STP + 2C	7x30	0.007	0.017	0.152	19

Belden New Generation

Riser Pairs Unshielded CMR

BELDEN

Bare copper conductors, PVC insulation. Conductors twisted into pairs, multiple pairs cabled together, gray PVC jacket with rip cord. Sequential footage marking every two feet.



SPECIFICATIONS

1. CONDUCTOR: Bare copper
2. INSULATION: Polyvinyl chloride (PVC)
3. JACKET: Gray polyvinyl chloride (PVC) with rip cord
4. STANDARDS: NEC: CMR; CEC: CMG, FT4
5. VOLTAGE RATING: 300 V
6. TEMPERATURE: 75°C

APPLICATIONS

For use with security systems, intercom/P.A. systems, sound/audio systems, and power-limited controls.

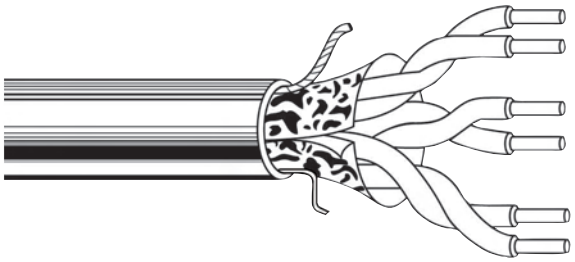
Anixter No.	Conductor Size AWG	Conductor Strand	No. of Pairs	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5341UE	18	7x26	2	0.010	0.015	0.266	32
B5342UE	18	7x26	3	0.010	0.015	0.283	45
B5343UE	18	7x26	4	0.010	0.018	0.320	58
B5345UE	18	7x26	6	0.010	0.018	0.362	85
B5347UE	18	7x26	9	0.010	0.020	0.434	140
B530BUE	18	7x26	10	0.010	0.025	0.400	141
B5541UE	22	7x30	2	-----	0.017	0.185	19
B5542UE	22	7x30	3	0.010	0.015	0.220	22
B5543UE	22	7x30	4	0.010	0.015	0.243	31
B5547UE	22	7x30	9	0.010	0.020	0.334	70

Belden New Generation

Riser Pairs Shielded CMR

BELDEN

Bare copper conductors, PVC insulation. Conductors twisted into pairs, multiple pairs cabled together, overall Beldfoil shield (foil side out) and drain wire, overall gray PVC jacket with rip cord. Sequential footage marking every two feet.



SPECIFICATIONS

1. CONDUCTOR: Bare copper
2. INSULATION: Polyvinyl chloride (PVC)
3. SHIELDING: Beldfoil shield applied overall with a drain wire
4. JACKET: Gray polyvinyl chloride (PVC) with rip cord
5. STANDARDS: NEC: CMR; CEC: CMG, FT4
6. VOLTAGE RATING: 300 V
7. TEMPERATURE: 75°C

APPLICATIONS

Power limited circuit and communications cable for riser and conduit. For use in remote control, signaling, security systems, communications, intercom/P.A. systems, sound/audio and nurse call.

Anixter No.	Conductor Size AWG	Conductor Strand	No. of Pairs	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5341FE	18	7x26	2	0.007	0.017	0.250	36
B5342FE	18	7x26	3	0.010	0.015	0.275	48
B5343FE	18	7x26	4	0.010	0.015	0.318	68
B5345FE	18	7x26	6	0.010	0.020	0.373	87
B5441FE	20	7x28	2	0.010	0.015	0.235	26
B5442FE	20	7x28	3	0.010	0.015	0.252	34
B5445FE	20	7x28	6	0.010	0.020	0.323	70
B5561FE	22	Solid	2	0.010	0.017	0.182	22
B5541FE	22	7x30	2	0.010	0.017	0.189	23
B5562FE	22	Solid	3	0.007	0.017	0.193	28
B5542FE	22	7x30	3	0.010	0.015	0.223	29
B5543FE	22	7x30	4	0.010	0.015	0.246	34
B5545FE	22	7x30	6	0.007	0.018	0.253	43

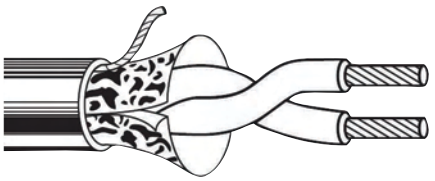
Belden New Generation

Riser Specialty/Thermostat and Control CMR

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Solid or stranded bare copper
2. INSULATION: Datalene (FFEP)
3. SHIELDING: AL foil-polyester tape (Beldfoil), 100% coverage
4. JACKET: Polyvinyl chloride (PVC)
5. STANDARDS: NEC: CMR, UL Listed
6. TEMPERATURE: 75°C



APPLICATIONS

For use in thermostat and control applications.

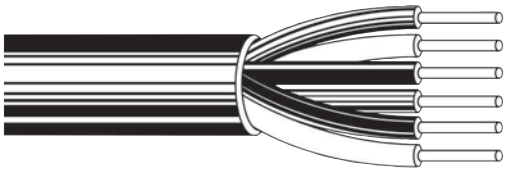
Anixter No.	Conductor Size AWG	Conductor Strand	No. of Pairs	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5340FT	18	7x26	1	0.260	34
B5341PT	18	7x26	2	0.308	58
B5540FT	22	7x30	1	0.172	13
B5541PT	22	7x30	2	0.202	23
B5660FT	24	Solid	1	0.138	9

Commercial Audio/Sound/Nurse Call Systems

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Solid bare copper
2. INSULATON: Polypropylene (PP)
3. JACKET: Polyvinyl chloride (PVC)
4. STANDARDS: NEC: CM, UL Listed
5. TEMPERATURE: 75°C



APPLICATIONS

For use with sound, intercom and nurse call systems.

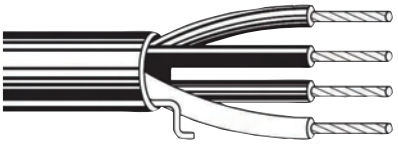
Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5662UG	24	Solid	6 (3 pair)	0.035	0.016	0.172	16
B5624UG	24	Solid	6	0.065	0.024	0.081 x 0.246	18
B5626UG	24	Solid	8	0.065	0.030	0.093 x 0.324	29

Belden New Generation

Commerical Audio Systems/High-strand Speaker Cable CM

BELDEN

Power limited circuit and communications cable for use in speaker systems.



SPECIFICATIONS

1. CONDUCTOR: High-strand bare copper
2. INSULATION: Polyvinyl chloride (PVC) or polypropylene (PP), 6T00UP insulated with Flamarrest
3. JACKET: Polyvinyl chloride (PVC) in colors with rip cord
4. STANDARDS: NEC: CM (16 -18 AWG), CL3 (14-12 AWG), CL2 audio use only (B5T00UP), CL2P audio use only (B6T00UP)
5. TEMPERATURE: 75°C

Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5T00UP	10	65x28	2	0.020	0.026	0.356	95
B5000UP	12	65x30	2	0.020	0.018	0.302	64
B5002UP	12	65x30	4	0.020	0.018	0.357	120
B5100UP	14	42x30	2	0.020	0.015	0.260	43
B5102UP	14	65x34	4	0.020	0.018	0.313	82
B5200UP	16	65x34	2	0.015	0.015	0.208	28
B5202UP	16	65x34	4	0.015	0.015	0.244	51
B5300UP	18	42x34	2	0.015	0.015	0.184	20
B5302UP	18	42x34	4	0.015	0.015	0.216	37
B6T00UP	10	65x28	2	0.011	0.015	0.308	85

Belden New Generation

Plenum Unshielded CMP/CL2P

BELDEN

Power limited circuit and communications cable for riser or plenum applications. For use in remote control, signaling, security systems, communications, intercom/P.A. systems, speaker, sound, audio and nurse call.

SPECIFICATIONS

1. CONDUCTOR: Solid or stranded bare copper
2. INSULATION: Flamarrest
3. JACKET: Natural Flamarrest with rip cord. Speaker cable constructions available in additional colors
4. STANDARDS: NEC: CMP (22-16 AWG), CL2P (14-12 AWG)
5. TEMPERATURE: 75°C

Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B6000UE	12	19x25	2	0.010	0.015	0.252	55
B6001UE	12	19x25	3	0.011	0.015	0.273	83
B6002UE	12	19x25	4	0.010	0.018	0.304	105
B6100UE	14	19x27	2	0.010	0.015	0.218	38
B6101UE	14	19x27	3	0.010	0.015	0.232	56
B6102UE	14	19x27	4	0.010	0.015	0.257	69
B6200UE	16	19x29	2	0.008	0.015	0.176	26
B6201UE	16	19x29	3	0.008	0.015	0.187	36
B6202UE	16	19x29	4	0.009	0.015	0.206	48
B6320UE	18	Solid	2	0.009	0.015	0.147	17
B6300UE	18	7x26	2	0.008	0.015	0.154	18
B6321UE	18	Solid	3	0.009	0.015	0.156	24
B6301UE	18	7x26	3	0.008	0.015	0.163	25
B6322UE	18	Solid	4	0.009	0.015	0.171	30
B6302UE	18	7x26	4	0.008	0.015	0.180	35
B6303UE	18	7x26	5	0.009	0.015	0.203	40
B6304UE	18	7x26	6	0.008	0.015	0.216	45
B6306UE	18	7x26	8	0.008	0.015	0.235	58
B6307UE	18	7x26	9	0.009	0.015	0.262	68
B6308UE	18	7x26	10	0.008	0.015	0.278	75
B6309UE	18	7x26	12	0.008	0.020	0.287	86
B6400UE	20	7x28	2	0.008	0.015	0.134	13
B6401UE	20	7x28	3	0.009	0.015	0.146	18
B6402UE	20	7x28	4	0.008	0.015	0.156	23
B6406UE	20	7x28	8	0.009	0.015	0.209	43
B6520UE	22	Solid	2	0.009	0.015	0.118	9
B6500UE	22	7x30	2	0.008	0.015	0.120	9
B6521UE	22	Solid	3	0.009	0.015	0.125	13
B6501UE	22	7x30	3	0.009	0.015	0.131	13
B6522UE	22	Solid	4	0.009	0.015	0.136	16
B6502UE	22	7x30	4	0.008	0.015	0.139	16
B6524UE	22	Solid	6	0.009	0.015	0.162	23
B6504UE	22	7x30	6	0.008	0.015	0.165	22
B6506UE	22	7x30	8	0.009	0.015	0.186	31
B6508UE	22	7x30	10	0.009	0.015	0.218	37
B6509UE	22	7x30	12	0.008	0.015	0.217	40

Belden New Generation

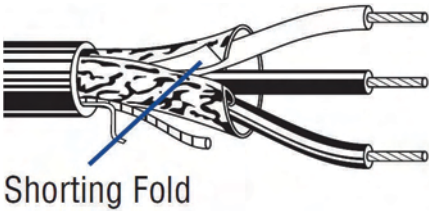
Plenum Shielded CMP/CL2P

BELDEN

Power limited circuit and communications cable for plenum applications. For use in remote control, signaling, security systems, communications, intercom/P.A. systems, sound/audio and nurse call.

SPECIFICATIONS

1. CONDUCTOR: Solid or stranded bare copper
2. INSULATION: Flamarrest
3. SHIELDING: Beldfoil shield applied overall with a drain wire
4. JACKET: Natural Flamarrest with rip cord
5. STANDARDS: NEC: CMP (22-16 AWG), CL2P (14-12 AWG)
6. TEMPERATURE: 75°C



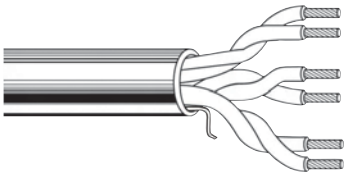
Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B6000FE	12	19x25	2	0.011	0.015	0.260	68
B6100FE	14	19x27	2	0.011	0.015	0.220	51
B6101FE	14	19x27	3	0.011	0.015	0.234	66
B6200FE	16	19x29	2	0.009	0.015	0.184	33
B6201FE	16	19x29	3	0.009	0.015	0.195	39
B6202FE	16	19x29	4	0.009	0.015	0.215	55
B6320FE	18	Solid	2	0.009	0.015	0.150	22
B6300FE	18	7x26	2	0.009	0.015	0.162	23
B6301FE	18	7x26	3	0.009	0.015	0.172	31
B6302FE	18	7x26	4	0.009	0.015	0.188	35
B6304FE	18	7x26	6	0.009	0.015	0.226	52
B6306FE	18	7x26	8	0.009	0.015	0.246	66
B6307FE	18	7x26	9	0.009	0.015	0.266	73
B6309FE	18	7x26	12	0.010	0.017	0.312	99
B6400FE	20	7x28	2	0.009	0.015	0.142	17
B6402FE	20	7x28	4	0.009	0.015	0.164	27
B6405FE	20	7x28	7	0.009	0.015	0.196	41
B6407FE	20	7x28	9	0.009	0.015	0.229	52
B6520FE	22	Solid	2	0.009	0.015	0.122	13
B6500FE	22	7x30	2	0.009	0.015	0.128	12
B6521FE	22	Solid	3	0.009	0.015	0.129	16
B6401FE	22	7x26	3	0.009	0.015	0.150	22
B6501FE	22	7x30	3	0.009	0.015	0.135	16
B6502FE	22	7x30	4	0.009	0.015	0.147	19
B6504FE	22	7x30	6	0.009	0.015	0.175	26
B6506FE	22	7x30	8	0.009	0.015	0.190	35
B6508FE	22	7x30	10	0.009	0.015	0.222	42

Belden New Generation

Plenum Pairs Unshielded CMP

BELDEN

Power limited circuit and communications cable for riser or plenum applications. For use in remote control, signaling, security systems, communications, intercom/P.A. systems, speaker, sound, audio and nurse call.



SPECIFICATIONS

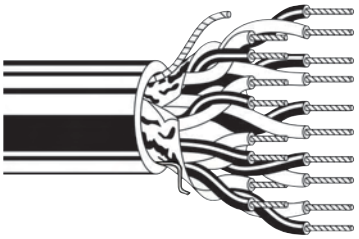
1. CONDUCTOR: Solid or stranded bare copper
2. INSULATION: Flamarrest (low smoke PVC)
3. JACKET: Natural Flamarrest (low smoke PVC) with rip cord. Speaker cable constructions available in additional colors
4. STANDARDS: NEC CMP or CL2P (CMP: 22-16 AWG), (CL2P: 14-12 AWG)
5. TEMPERATURE: 75°C

Anixter No.	Conductor Size AWG	Conductor Strand	No. of Pairs	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B6341UE	18	7 Strands	2	0.008	0.015	0.253	36
B6342UE	18	7 Strands	3	0.009	0.015	0.278	50
B6343UE	18	7 Strands	4	0.015	0.015	0.314	66
B6345UE	18	7 Strands	6	0.009	0.018	0.353	95
B6561UE	22	Solid	2	0.009	0.015	0.188	19
B6541UE	22	7 Strands	2	0.009	0.015	0.199	20
B6542UE	22	7 Strands	3	0.009	0.015	0.212	27
B6543UE	22	7 Strands	4	0.009	0.015	0.234	34
B6545UE	22	7 Strands	6	0.009	0.015	0.264	47
B6547UE	22	7 Strands	9	0.009	0.018	0.318	69

Plenum Pairs Shielded CMP

BELDEN

Power limited circuit and communications cable for plenum applications. For use in remote control, signaling, security systems, communications, intercom/P.A. systems, sound/audio and nurse call.



SPECIFICATIONS

1. CONDUCTOR: Solid or stranded bare copper
2. INSULATION: Flamarrest
3. SHIELDING: Beldfoil shield applied overall with a drain wire
4. JACKET: Natural Flamarrest with rip cord
5. STANDARDS: NEC: CMP (22-16 AWG), CL2P (14-12 AWG)
6. TEMPERATURE: 75°C

Anixter No.	Conductor Size AWG	Conductor Strand	No. of Pairs	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B6342FE	18	7x26	3	0.009	0.015	0.282	56
B6343FE	18	7x26	4	0.009	0.017	0.316	70
B6345FE	18	7x26	6	0.009	0.017	0.357	101
B6347FE	18	7x26	9	0.009	0.017	0.423	140
B6441FE	20	7x28	2	0.009	0.015	0.228	31
B6443FE	20	7x28	4	0.009	0.015	0.269	51
B6561FE	22	Solid	2	0.009	0.015	0.193	21
B6541FE	22	7x30	2	0.009	0.015	0.203	23
B6542FE	22	7x30	3	0.009	0.015	0.216	29
B6543FE	22	7x30	4	0.009	0.015	0.238	37
B6545FE	22	7x30	6	0.009	0.015	0.268	50
B6547FE	22	7x30	9	0.009	0.018	0.323	72

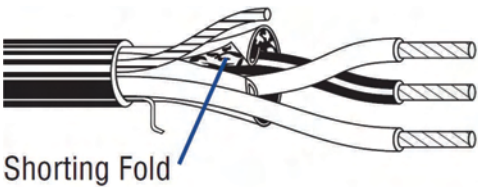
Belden New Generation

Plenum Specialty Composites CMP

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Bare copper
2. INSULATION: Polyvinyl chloride (PVC)
3. SHIELDING: Beldfoil
4. JACKET: Gray polyvinyl chloride (PVC) with rip cord
5. STANDARDS: NEC: CMP; CEC: CMP, FT6
6. TEMPERATURE: 75°C



APPLICATIONS

For use in security systems, communications, intercom/P.A. systems, sound/audio systems and power-limited controls.

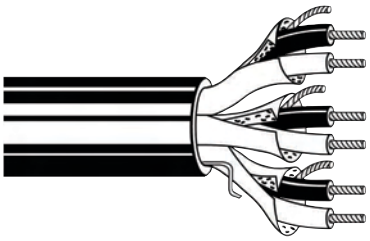
Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B6501GE	22	7x30	1 STP + 1C	0.009	0.015	0.174	18
B6502GE	22	7x30	1 STP + 2C	0.009	0.015	0.180	21

Plenum Specialty/Pro Audio/Intercom Shielded Pairs CMP

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Stranded bare copper
2. INSULATION: Fluorinated ethylene-propylene (FEP)
3. SHIELDING: AL foil with polyester tape (Beldfoil), 100% coverage with drain wire
4. JACKET: Gray or natural Flamarrest
5. STANDARDS: NEC: CMP, UL Listed
6. TEMPERATURE: 75°C



APPLICATIONS

For use with audio and intercom systems.

Anixter No.	Conductor Size AWG	Conductor Strand	No. of Pairs	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B6341PC	18	7x26	2	0.010	0.017	0.281	45
B6342PC	18	7x26	3	0.010	0.017	0.300	69
B6343PC	18	7x26	4	0.010	0.017	0.332	88
B6345PC	18	7x26	6	0.010	0.019	0.402	132
B6541PA	22	7x30	2	0.010	0.015	0.214	27
B6542PA	22	7x30	3	0.010	0.015	0.228	36
B6543PA	22	7x30	4	0.010	0.015	0.252	46
B6545PA	22	7x30	6	0.010	0.015	0.300	65
B6546PA	22	7x30	8	0.010	0.017	0.332	85
B6548PA	22	7x30	12	0.010	0.017	0.408	125
B6549PA	22	7x30	16	0.010	0.017	0.457	159

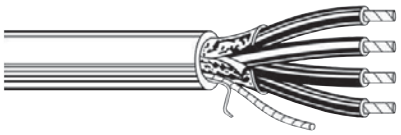
Belden New Generation

Plenum Audio and Intercom Systems CMP

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Stranded bare copper
2. INSULATION: Fluorinated ethylene-propylene (FEP)
3. SHIELDING: Beldfoil
4. JACKET: Flamarrest
5. STANDARDS: NEC: CMP, UL Listed
6. TEMPERATURE: 75°C



APPLICATIONS

For use with audio and intercom systems.

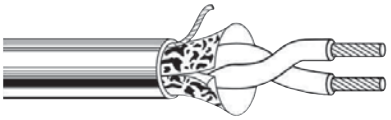
Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B6300FC	18	7x26	2	0.006	0.017	0.155	22
B6302FC	18	7x26	4	0.006	0.017	0.179	34
B6400FC	20	7x28	2	0.006	0.015	0.133	15
B6500FC	22	7x30	2	0.006	0.015	0.116	11
B6502FC	22	7x30	4	0.006	0.015	0.133	18

Plenum Specialty/Thermostat and Control Overall Shielded Pairs CMP

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Solid or stranded bare copper
2. INSULATION: Foamed fluorinated ethylene-propylene (FFEP)
3. SHIELDING: Beldfoil overall
4. JACKET: Flamarrest
5. STANDARDS: NEC: CMP, UL Listed
6. TEMPERATURE: 75°C



APPLICATIONS

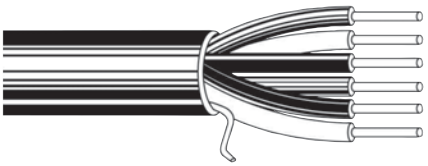
For use in thermostat and control applications.

Anixter No.	Conductor Size AWG	Conductor Strand	No. of Pairs	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B6340FT	18	7x26	1	0.015	0.232	31
B6341PT	18	7x26	2	0.015	0.280	60
B6540FT	22	7x30	1	0.015	0.162	31
B6660FT	24	Solid	1	0.015	0.128	11
B6661PT	24	Solid	2	0.015	0.155	18

Belden New Generation

Plenum Commercial Audio/Sound/Nurse Call Systems CMP

BELDEN



SPECIFICATIONS

1. CONDUCTOR: Solid bare copper
2. INSULATION: Fluorinated ethylene-propylene (FEP)
3. JACKET: Flamarrest
4. STANDARDS: NEC: CMP, UL Listed
5. TEMPERATURE: 75°C

APPLICATIONS

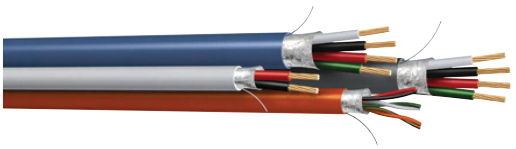
For use with sound, intercom and nurse call systems.

Anixter No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B6662UG	24	6	0.007	0.015	0.165	18
B6624UG	24	6	0.007	0.019	0.072 x 0.242	21
B6626UG	24	8	0.007	0.019	0.072 x 0.310	26

Banana Peel 538AFS Composite Access Control Cable Riser Rated

BELDEN

Four cable components adjoined (no overall jacket) using Belden's patented Banana Peel technology. Each component is color coded and application printed. Components grouped around and affixed to a center spline.



SPECIFICATIONS

1. COMPOSITE:
   - 4C 16 AWG stranded bare copper shielded - gray - lock power
   - 3 PR 18 AWG stranded bare copper overall shielded - orange - card reader
   - 2C 18 AWG stranded bare copper shielded - white - door contact
   - 4C 18 AWG stranded bare copper shielded - blue - REX/spare
2. SHIELDING: Beldfoil 100% coverage, plus drain wire
3. INSULATION: Polyvinyl chloride (PVC) or polypropylene (PP)
4. JACKET: Individual: polyvinyl chloride (PVC) riser rated; Overall: none, center spline assembly
5. NEC: CMR; CEC: CMG, FT4

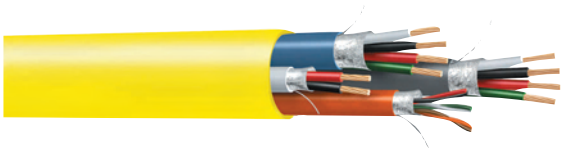
Anixter No.	Description	Insulation Thickness (in.)	Shield Coverage	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B538AFS	Composite: 4C 16 AWG, shielded, jacketed + 4C 18 AWG shielded, jacketed, + 3 PR 18 AWG OA shielded, + 2C 18 AWG shielded, jacketed	0.007	100%	0.516	154

Belden New Generation

Jacketed 558AFJ Composite Access Control Cables Riser Rated

BELDEN

Four cable components, cabled and jacketed. Each component is color coded and application printed.



SPECIFICATIONS

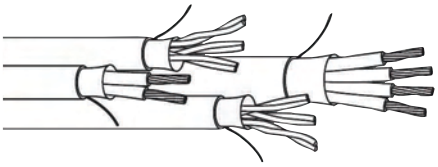
1. COMPOSITE:
   - 4C 18 AWG stranded BC shielded - gray - lock power
   - 3 PR 22 AWG stranded BC overall shielded - orange - card reader
   - 2C 22 AWG stranded BC shielded - white - door contact
   - 4C 22 AWG stranded BC shielded - blue - REX/spare
2. INDIVIDUAL SHIELDING: Beldfoil 100% coverage, plus drain wire
3. INSULATION: Polyvinyl chloride (PVC) or polypropylene (PP)
4. INDIVIDUAL JACKET: Polyvinyl chloride (PVC)
5. OVERALL JACKET: Yellow polyvinyl chloride (PVC)
6. NEC: CMR; CEC: CMG, FT4

Anixter No.	Description	Insulation Thickness (in.)	Shield Coverage	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B558AFJ	Composite: 4C 18 AWG shielded, jacketed + 3 PR 22 AWG OAS, jacketed + 2C 22 AWG shielded, jacketed + 4C 22 AWG shielded, jacketed. Overall yellow PVC jacket	0.009	100%	0.493	124

Banana Peel 558GFS Composite Access Control Cables for Exit Readers Riser Rated

BELDEN

Four cable components adjoined (no overall jacket) using Belden's patented Banana Peel technology. Each component is color coded and application printed. Components grouped around and affixed to a center spline.



SPECIFICATIONS

1. COMPOSITE:
   - 4C 18 AWG stranded bare copper shielded - gray - lock power
   - 3 PR 22 AWG stranded bare copper overall shielded - orange - card reader
   - 2C 22 AWG stranded bare copper shielded - white - door contact
   - 3 PR 22 AWG stranded bare copper overall shielded - yellow - exit card reader
2. SHIELDING: Beldfoil 100% coverage, plus drain wire
3. INSULATION: Polyvinyl chloride (PVC) or polypropylene (PP)
4. JACKET: Individual: Polyvinyl chloride (PVC) riser rated; Overall: none, center spline assembly
5. NEC: CMR; CEC: CMG, FT4

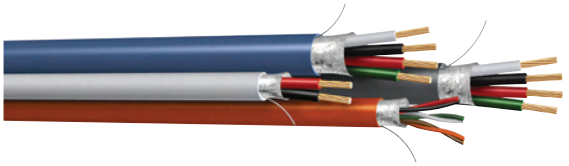
Anixter No.	Description	Insulation Thickness (in.)	Shield Coverage	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B558GFS	Composite: 4C 18 AWG shielded, jacketed + 3 TP 22 AWG OA shielded, jacketed + 2C 22 AWG shielded, jacketed + 3 TP 22 AWG OA shielded, jacketed	0.010	100%	0.458	116

Belden New Generation

Banana Peel 558ANH Composite Access Control Cables Riser Rated

BELDEN

Four cable components adjoined (no overall jacket) using Belden's patented Banana Peel technology. Each component is color coded and application printed. Components grouped around and affixed to a center spline.



SPECIFICATIONS

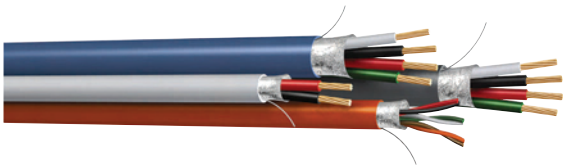
1. COMPOSITE:
   - 4C 18 AWG stranded bare copper shielded - gray - lock power
   - 3 PR 22 AWG stranded bare copper overall shielded - orange - card reader
   - 2C 22 AWG stranded bare copper shielded - white - door contact
   - 4C 22 AWG stranded bare copper shielded - blue - REX/spare
2. SHIELDING: Beldfoil 100% coverage, plus drain wire
3. INSULATION: Polyvinyl chloride (PVC) or polypropylene (PP)
4. JACKET: Individual; Polyvinyl chloride (PVC) riser rated; Overall: center spline assembly
5. NEC: CMG-LS (LIMITED-SMOKE)

Anixter No.	Description	Insulation Thickness (in.)	Shield Coverage	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B558ANH	Composite: 4C 18 AWG shielded, LSZH jacketed + 3 PR 22 AWG OA shield, LSZH jacket + 2C 22 AWG shielded, LSZH jacketed + 4C 22 AWG shielded, LSZH jacketed	0.046	100%	0.493	148

Banana Peel 638AFS Composite Access Control Cable Plenum Rated

BELDEN

Four cable components adjoined (no overall jacket) using Belden's patented Banana Peel technology. Each component is color coded and application printed. Components grouped around and affixed to a center spline.



SPECIFICATIONS

1. COMPOSITE:
   - 4C 16 AWG stranded BC shielded - gray - lock power
   - 3 PR 18 AWG stranded BC overall shielded - orange - card reader
   - 2C 18 AWG stranded BC shielded - white - door contact
   - 4C 18 AWG stranded BC shielded - blue - REX/spare
2. SHIELDING: Beldfoil 100% coverage, plus drain wire
3. INSULATION: Flamarrest
4. JACKET: Individual: Flamarrest; Overall; none, center spline assembly
5. NEC: CMP; CEC: CMP, FT6

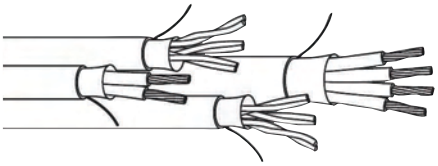
Anixter No.	Description	Insulation Thickness (in.)	Shield Coverage	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B638AFS	Composite: 4C 16 AWG shielded, jacketed + 3 PR 18 AWG OA shield, jacketed + 2C 18 AWG shielded, jacketed + 4C 18 AWG shielded	0.009	100%	0.542	183

Belden New Generation

Banana Peel 658GFS Composite Access Control Cables for Exit Card Readers Plenum Rated

BELDEN

Four cable components adjoined (no overall jacket) using Belden's patented Banana Peel technology. Each component is color coded and application printed. Components grouped around and affixed to a center spline.



SPECIFICATIONS

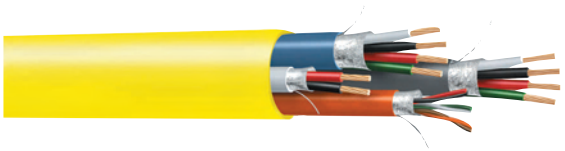
1. COMPOSITE:
   - 4C 18 AWG stranded bare copper shielded - gray - lock power
   - 3 PR 22 AWG stranded bare copper overall shielded - orange - card reader
   - 2C 22 AWG stranded bare copper shielded - white - door contact
   - 3 PR 22 AWG stranded bare copper overall shielded - yellow - exit card reader
6. SHIELDING: Beldfoil 100% coverage, plus drain wire
7. INSULATION: Flamarrest
8. JACKET: Individual: Flamarrest; Overall: none, center spline assembly
9. NEC: CMP, CEC: CMP, FT6

Anixter No.	Description	Insulation Thickness (in.)	Shield Coverage	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B658GFS	Composite: 4C 18 AWG shielded, jacketed + 3 PR 22 AWG OA shielded, jacketed + 2 C 22 AWG shielded, jacketed + 3 PR 22 AWG OA shielded, jacketed	0.009	100%	0.456	112

Jacketed 658AFJ Composite Access Control Cables Plenum Rated

BELDEN

Four cable components, cabled and jacketed. Each component is color coded and application printed.



SPECIFICATIONS

1. COMPOSITE:
   - 4C 18 AWG stranded BC shielded - gray - lock power
   - 3 PR 22 AWG stranded BC overall shielded - orange - card reader
   - 2C 22 AWG stranded BC shielded - white - door contact
   - 4C 22 AWG stranded BC shielded - blue - REX/spare
2. INDIVIDUAL SHIELDING: Beldfoil 100% coverage, plus drain wire
3. INSULATION: Flamarrest
4. INDIVIDUAL JACKET: Flamarrest
5. OVERALL JACKET: Yellow polyvinylidene fluoride (PVDF)
6. NEC: CMP, CEC: CMP, FT6

Anixter No.	Description	Insulation Thickness (in.)	Shield Coverage	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B658AFJ	Composite: 4C 18 AWG shielded, jacketed + 3 PR 22 AWG OAS, jacketed + 2C 22 AWG shielded, jacketed + 4C 22 AWG shielded, jacketed. Overall yellow PVDF jacket	0.009	100%	0.463	115

Belden New Generation

Coaxial Cable CCTV Nonplenum CM

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Solid bare copper (BC)
2. INSULATION: Foam polyethylene (FPE)
3. JACKET: Polyvinyl chloride (PVC), sequential footage marked
4. TEMPERATURE: 75°C
5. NEC RATING: CM, 543945 and 533945 are also rated CMG, FT4

Anixter No.	RG Type	Nominal Imped. (Ohms)	Nominal Capacitance (pF/ft.)	Nom. Vel. of Prop.	AWG	Nominal Insulation O.D. (in.)	Shield Coverage	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Rating
B543945	RG59	75	16.3	83%	20	0.145	95% BC Braid	0.032	0.232	31	CMG
B533945	RG6	75	16.3	83%	18	0.180	95% BC Braid	0.032	0.266	41	CM
B513945	RG11	75	16.1	84%	14	0.280	95% BC Braid	0.048	0.405	98	CM

Coaxial Cable CCTV Specialty Nonplenum CM - Miniature

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Solid bare copper
2. INSULATION: Foam polyethylene (FPE)
3. JACKET: Polyvinyl chloride (PVC), sequential footage marked
4. TEMPERATURE: 75°C
5. NEC RATING: CM

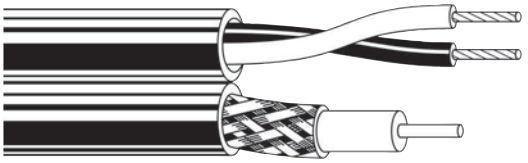
Anixter No.	RG Type	Nominal Imped. (Ohms)	Nominal Capacitance (pF/ft.)	Nom. Vel. of Prop.	AWG	Nominal Insulation O.D. (in.)	Shield Coverage	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Rating
B573945	RG59	75	16.8	80%	25	0.085	94% BC Braid	0.019	0.146	14	CM
B551945	RG59	75	17.3	78%	22	0.140	95% BC Braid	0.035	0.232	30	CM

Belden New Generation

Coaxial Cable CCTV Siamese Nonplenum CM

BELDEN

20 AWG bare copper conductor, foam polyolefin insulation, bare copper braid shield, PVC jacket.



SPECIFICATIONS

1. CONDUCTOR: Solid bare copper
2. INSULATION: Foam polyethylene (FPE)
3. SHIELDING: Bare copper braid
4. JACKET: Polyvinyl chloride (PVC)
5. STANDARDS: NEC: CMG; CEC: CMG, FT4
6. NOMINAL IMPEDANCE: 75 ohms
7. TEMPERATURE: 75°C

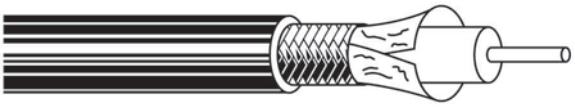
APPLICATIONS

20 AWG bare copper conductor, foam polyolefin insulation, bare copper braid shield, PVC jacket.

Anixter No.	Description	Nominal Imped. (Ohms)	Nom. Vel. of Prop.	Nominal Insulation O.D. (in.)	Shield Coverage	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Rating
B549945	Composite coax: RG-59/U 20 AWG solid bare copper conductor, foam polyethylene polyolefin insulation, bare copper braid shield, black PVC jacket. Pair: AWG 18/7 bare copper conductors, PVC insulation, black PVC jacket	75	83%	0.145	95% BC	0.232 x 0.460	49	CMG
B539945	Composite coax: RG-6/U 18 AWG solid bare copper conductor, foam polyethylene polyolefin insulation, bare copper braid shield, black PVC jacket. Pair: AWG 18/7 bare copper conductors, PVC insulation, black PVC jacket	75	83%	0.180	95% BC	0.232 x 0.485	53	CM
B579945	Composite coax: RG-59/U 25 AWG solid bare copper conductor, foam polyethylene insulation, bare copper braid shield, black PVC jacket. Pair AWG 20/7 bare copper conductors, PVC insulation, black PVC jacket	75	83%	0.145	95% BC	0.232 x 0.460	29	CM

Coaxial Cable CATV/MATV Nonplenum CM

BELDEN



SPECIFICATIONS

1. CONDUCTOR: Solid bare copper (BC)
2. INSULATION: Foam polyethylene (FPE)
3. JACKET: Polyvinyl chloride (PVC), sequential footage marked
4. TEMPERATURE: 75°C
5. NEC RATING: CM

FEATURES

- B5339Q5 and B5339B5: CATV or MATV applications

Anixter No.	RG Type	Nominal Imped. (Ohms)	Nominal Capacitance (pF/ft.)	Nom. Vel. of Prop.	AWG	Nominal Insulation O.D. (in.)	Shield Coverage	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Rating
B5339B5	RG6	75	16.3	83%	18	0.180	Foil + 60% AL Braid	0.027	0.266	29	CM
B5339Q5	RG6	75	16.3	83%	18	0.180	Quad	0.028	0.298	34	CM
B5399B5	RG6	75	16.3	83%	18	0.180	Foil + 60% AL Braid	0.029	0.270	30	CM, CL2

Belden New Generation

Coaxial Cable CCTV Plenum CMP

BELDEN

Bare copper, foam FEP insulation, bare copper braid shield. Natural Flamarrest jacket (except B613948 which is white fluorocopolymer). Sequential footage marking every two feet.

SPECIFICATIONS

1. CONDUCTOR: Solid bare copper (BC)
2. INSULATION: Foam fluorinated ethylene-propylene (FFEP)
3. SHIELDING: Bare copper braid
4. JACKET: Flamarrest
5. STANDARDS: NEC: CMP; CEC: CMP, FT6
6. NOMINAL IMPEDANCE: 75 ohms
7. TEMPERATURE RATING: 75ºC

APPLICATIONS

CCTV

Card reader/sensor (6539Y8)

Anixter No.	RG Type	Nominal Imped. (Ohms)	Nominal Capacitance (pF/ft.)	Nom. Vel. of Prop.	AWG	Nominal Insulation O.D. (in.)	Shield Coverage	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Rating
B643948	RG59	75	16.1	83%	20	0.135	95% BC Braid	0.015	0.193	32	CMP
B633948	RG6	75	16.3	83%	18	0.170	95% BC Braid	0.015	0.228	42	CMP
B613948	RG11	75	16.1	84%	14	0.274	95% BC Braid	0.023	0.348	90	CMP

Coaxial Cable CCTV/Specialty Plenum CMP - Miniature

BELDEN

Bare copper, foam FEP insulation, bare copper braid shield. Natural Flamarrest jacket (except B673948 which is white fluorocopolymer). Sequential footage marking every two feet.

SPECIFICATIONS

1. CONDUCTOR: Solid bare copper (BC)
2. INSULATION: Foam fluorinated ethylene-propylene (FFEP)
3. SHIELDING: Bare copper braid
4. JACKET: Flamarrest
5. STANDARDS: NEC: CMP; CEC: CMP, FT6
6. TEMPERATURE RATING: 75ºC

APPLICATIONS

CCTV

Card reader/sensor (6539Y8)

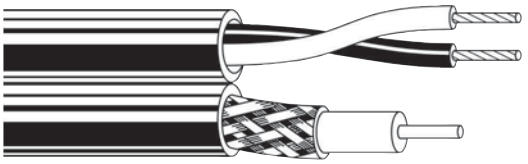
Anixter No.	RG Type	Nominal Imped. (Ohms)	Nominal Capacitance (pF/ft.)	Nom. Vel. of Prop.	AWG	Nominal Insulation O.D. (in.)	Shield Coverage	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Rating
B673948	RG59	75	16.8	80%	25	0.078	95% BC Braid	0.023	0.146	17	CMP
B6539Y8	RG62	93	13.5	84%	22	0.146	95% BC Braid	0.015	0.204	33	CMP

Belden New Generation

Coaxial Cable CCTV Siamese Plenum CMP

BELDEN

Bare copper, foam FEP insulation, bare copper braid shield. Natural Flamarrest jacket. Sequential footage marking every two feet.



SPECIFICATIONS

1. CONDUCTOR: Solid bare copper (BC)
2. INSULATION: Foam fluorinated ethylene-propylene (FFEP)
3. SHIELDING: Bare copper braid
4. JACKET: Flamarrest
5. STANDARDS: NEC: CMP; CEC: CMP, FT6
6. TEMPERATURE RATING: 75ºC

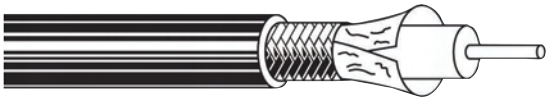
APPLICATIONS

CCTV
Card reader/sensor

Anixter No.	RG Type	Nominal Imped. (Ohms)	Nominal Capacitance (pF/ft.)	Nom. Vel. of Prop.	AWG	Nominal Insulation O.D. (in.)	Shield Coverage	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Rating
B649948	RG59	75	16.3	83%	20	0.135	95% BC Braid	0.018	0.199 x 0.383	48	CMP
B639948	RG6	75	16.1	84%	18	0.170	95% BC Braid	0.032	0.232 x 0.416	56	CM
B679948	RG59	75	16.8	80%	25	0.078	95% BC Braid	-----	0.144 x 0.328	34	CMP

Coaxial Cable CATV/MATV Plenum CMP

BELDEN



SPECIFICATIONS

1. CONDUCTOR: Solid bare copper (BC)
2. INSULATION: Foam fluorinated ethylene-propylene (FFEP)
3. JACKET: Flamarrest
4. STANDARDS: NEC: CMP, CATVP; CEC: CMP, FT6
5. TEMPERATURE RATING: 75ºC

Anixter No.	RG Type	Nominal Imped. (Ohms)	Nominal Capacitance (pF/ft.)	Nom. Vel. of Prop.	AWG	Nominal Insulation O.D. (in.)	Shield Coverage	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Rating
B6439C8	RG59	75	16.3	83%	20	0.135	Foil + 80% AL Braid	0.015	0.199	21.5	CMP, CATVP
B633938	RG6	75	16.3	83%	18	0.170	Foil + 90% AL Braid	0.015	0.233	29	CMP
B6139B8	RG11	75	16.1	84%	14	0.274	Foil + 60% AL Braid	0.020	0.348	66	CMP

Coaxial Cable CCTV Limited Combustible Plenum CMP

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Solid bare copper (BC)
2. INSULATION/DIELECTRIC: Foam fluorinated ethylene-propylene (FFEP)
3. SHIELDING: Bare copper braid, 95% coverage
4. JACKET: Black fluorinated ethylene-propylene (FEP)
5. STANDARDS: NEC: CMP, UL Listed; CEC: CMP
6. TEMPERATURE: 200°C

APPLICATIONS

For use in closed-circuit television systems (CCTV) and surveillance applications where a limited combustible product is required.

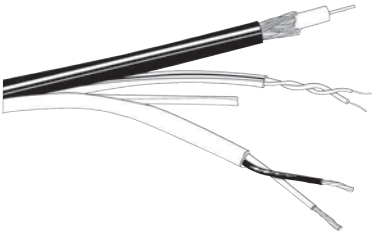
Anixter No.	RG Type	Nominal Imped. (Ohms)	Nominal Capacitance (pF/ft.)	Nom. Vel. of Prop.	AWG	Nominal Insulation O.D. (in.)	Shield	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Rating
B7986LC	RG59	75	16.1	84%	20	0.135	95% BC Braid	0.193	31	CMP
B7985LC	RG6	75	16.3	83%	18	0.170	95% BC Braid	0.228	44	CMP

Belden New Generation

Pan/Tilt/Zoom Banana Peel Composite Coax Nonplenum CMR

BELDEN

Three cable components adjoined using Belden's patented Banana Peel technology. One RG-59; one control cable (pan/tilt/zoom); and one pair for power (18 AWG).



SPECIFICATIONS

1. VIDEO: (1) RG-59, 95% braid coverage - black color
2. CONTROL: Varies by code, see item descriptions - blue color
3. POWER: Varies by code, see item descriptions - white color
4. INSULATION: High-density polyethylene (HDPE): coax, polyolefin (PO): control, polyvinyl chloride (PVC): power
5. JACKET: Riser rated polyvinyl chloride (PVC)

APPLICATIONS

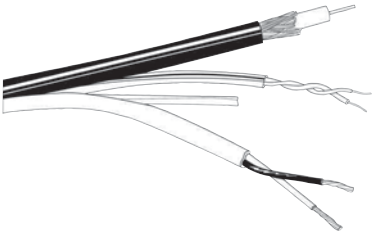
Video/control/power

Anixter No.	Description	Shield Coverage	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Rating
B500PTZ	Banana Peel composite for PTZ camera: RG-59/U, 1 pair 23 AWG unshielded, 2C 18 AWG unshielded. NEC, CMR, CEC, CMG FT4, SHAFT UL 1666	95% Braid Shield Coax/Unshielded 1-Pair	0.411	58	CMR
B501PTZ	Banana Peel composite for PTZ camera: RG-59/U, 1 pair 22 AWG shielded and 2C 18 AWG unshielded. NEC, CMR, CEC, CMG FT4, SHAFT UL 1666	95% AL/Polyester Unshielded	0.419	71	CMR/CMG
B502PTZ	Banana Peel composite for PTZ camera: RG-59/U, 1 pair 18 AWG shielded and 2C 18 AWG unshielded. NEC, CMR, CEC, CMG FT4, SHAFT UL 1666	95% AL/Polyester Unshielded	0.451	89	CMR/CMG
B503PTZ	Banana Peel composite for PTZ camera: RG-59/U, 1 pair 18 AWG shielded, 2C 14 AWG unshielded NEC, CMR, CEC, CMG SHAFT UL 1666	95% AL/Polyester Unshielded	0.496	101	CMR/CMG
B504PTZ	Banana Peel composite for PTZ camera: RG-59/U, 1 pair 18 AWG shielded, 2C 14 AWG unshielded NEC, CMR, CEC, CMG SHAFT UL 1666	95% AL/Polyester Unshielded	0.496	101	CMR/CMG

Pan/Tilt/Zoom Banana Peel Composite Coax Plenum CMP

BELDEN

Three cable components adjoined using Belden's patented Banana Peel technology. One RG-59; one control cable (pan/tilt/zoom); and one pair for power (18 AWG).



SPECIFICATIONS

1. VIDEO: (1) RG-59, 95% braid coverage - black
2. CONTROL: Varies by code, see item descriptions - blue color
3. POWER: Varies by code, see item descriptions - white color
4. INSULATION: Foam polytetrafluoroethylene (PTFE): coax, fluorinated ethylene-propylene (FEP): control, Flamarrest: power
5. JACKET: Flamarrest

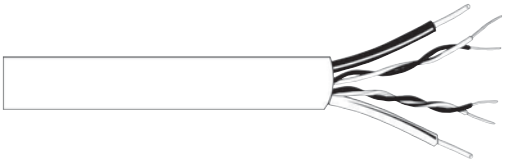
Anixter No.	Description	Application	Shield Coverage	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Rating
B600PTZ	Banana Peel composite: 1 coax RG-59, 1 UTP 23 AWG, 2C 18 AWG	Video/Control/Power	95% Braid Shield Coax/Unshielded 1-Pair	0.351	62	CMP
B601PTZ	Banana Peel composite: 1 coax RG-59, 1 STP 22 AWG, 2C 18 AWG	Video/Control/Power	95% AL/Polyester Unshielded	0.351	65	CMP
B602PTZ	Banana Peel composite: 1 coax RG-59, 1 STP 18 AWG, 2C 18 AWG	Video/Control/Power	95% AL/Polyester Unshielded	0.363	70	CMP

Belden New Generation

UTP CCTV Surveillance Cables Nonplenum CM

BELDEN

Cables include two pairs Cat 5e UTP for video over UTP and for control; and two conductors 16 AWG for power. CMR rated cables for CCTV transmission over UTP.



SPECIFICATIONS

1. CONDUCTOR: Bare copper conductors 24 or 23 AWG for video/control; and 16 AWG for power
2. INSULATION: Riser rated polyolefin (PO) UTP Cat 5e tested; Riser rated polyvinyl chloride (PVC): power pairs
3. JACKET: Flamarrest

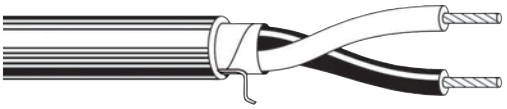
Anixter No.	Conductor Size AWG	Application	Conductor Strand	No. of Conductors	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5284UE	2 PR x 23 AWG 2C x 16 AWG	Video/Control/Power	Solid / 19x29	2P+2C	0.233	44
B5284US	2 PR x 24 AWG 2C x 16 AWG	Video/Control/Power	Solid / 19x29	2P+2C	0.190 x 0.408	45
B5288US	4 PR x 24 AWG 2C x 16 AWG	Video/Control/Power	Solid / 19x29	2P+2C	0.198 x 0.408	49

Waterdog Indoor/Outdoor Cable Unshielded CM

BELDEN

Power limited circuit and communications cable for outdoor use and indoor use in conduit.

For use in remote control, signaling, security systems, communications, intercom/P.A. systems, speaker, sound, audio and nurse call.



SPECIFICATIONS

1. CONDUCTOR: Stranded bare copper
2. INSULATION: Polyvinyl chloride (PVC) or polypropylene (PP)
3. WATER-BLOCKING: Tape swells when moistened, blocking water infiltration
4. JACKET: Gray or black polyvinyl chloride (PVC) with rip cord
5. STANDARDS: NEC: CM; CEC: CM, FT1
6. TEMPERATURE: 75°C

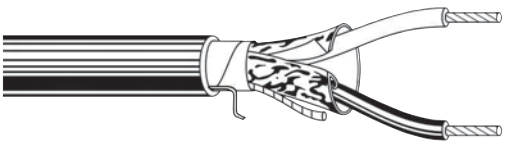
Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5300U1	18	7x26	2	0.010	0.025	0.215	24

Waterdog Indoor/Outdoor Cable Shielded CM

BELDEN

Power limited circuit and communications cable for outdoor use and indoor use in conduit.

For use in remote control, signaling, security systems, communications, intercom/P.A. systems, sound/audio and nurse call.



SPECIFICATIONS

1. CONDUCTOR: Solid or stranded bare copper
2. INSULATION: Polyvinyl chloride (PVC) or polypropylene (PP)
3. WATER-BLOCKING: Tape swells when moistened, blocking water infiltration. Inner tapes on individual pairs when applicable and overall tapes in addition
4. SHIELDING: Beldfoil shield applied overall with a drain wire
5. JACKET: Gray or black polyvinyl chloride (PVC) with rip cord
6. STANDARDS: NEC: CM; CEC: CM, FT1
7. TEMPERATURE: 75°C

Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5300F1	18	7x26	2	0.010	0.025	0.222	30
B5400F1	20	7x28	2	0.010	0.025	0.206	22
B5500F1	22	7x30	2	0.010	0.025	0.196	17

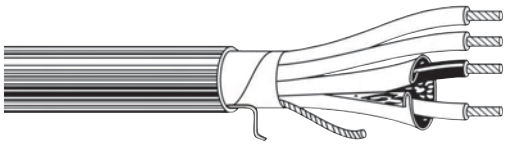
Belden New Generation

Waterdog Indoor/Outdoor Combinations Cable CM

BELDEN

Power limited circuit and communications cable for outdoor use and indoor use in conduit.

For use in remote control, signaling, security systems, communications, intercom/P.A. systems, sound/audio and nurse call.



SPECIFICATIONS

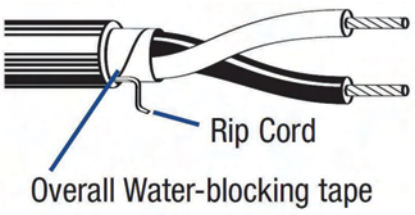
1. CONDUCTOR: Solid or stranded bare copper
2. INSULATION: Polyvinyl chloride (PVC) or polypropylene (PP)
3. WATER-BLOCKING: Tape swells when moistened, blocking water infiltration. Inner tapes on individual pairs when applicable and overall tapes in addition
4. SHIELDING: Beldfoil shield applied overall with a drain wire
5. JACKET: Gray or black polyvinyl chloride (PVC) with rip cord
6. STANDARDS: NEC: CM; CEC: CM, FT1
7. TEMPERATURE: 75°C

Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5521G1	22	Solid	1 STP + 1C	0.010	0.025	0.212	22
B5501G1	22	7x30	1 STP + 1C	0.010	0.025	0.222	25
B5522G1	22	Solid	1 STP + 2C	0.010	0.025	0.224	27
B5502G1	22	7x30	1 STP + 2C	0.010	0.025	0.234	29
B5504G1	22	7x30	1 STP + 4C	0.010	0.025	0.268	37
B5524G1	22	Solid	1 STP + 4C	0.010	0.025	0.244	31
B5584G1	22	Solid	1 STP + 2P	0.010	0.025	0.283	35
B5541P1	22	7x30	2 STP	0.010	0.025	0.239	29

Waterdog Indoor/Outdoor Direct Burial Cable Unshielded FPL/PLTC/CM

BELDEN

Power limited circuit and communications cable for outdoor use and indoor use. PLTC-ER (exposed run) may be run exclusive of conduit or cable tray beyond six feet, where permitted. For use in remote control, signaling, security systems, communications, intercom/P.A. systems, sound/audio and nurse call.



SPECIFICATIONS

1. CONDUCTOR: Stranded bare copper
2. INSULATION: Polyvinyl chloride (PVC) or polypropylene (PP)
3. WATER-BLOCKING: Tape swells when moistened, blocking water infiltration
4. JACKET: Black or red polyvinyl chloride (PVC) with rip cord
5. STANDARDS: NEC: CMG, FPL, PLTC-ER; CEC: CMG, FT4
6. TEMPERATURE: 75°C

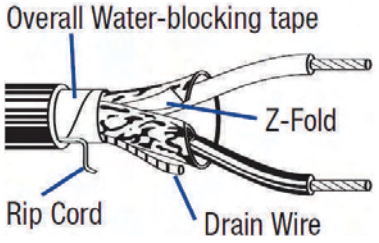
Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5140U1	14	19x27	1 Pair	0.014	0.042	0.314	58
B5102U1	14	19x27	1 Quad	0.010	0.025	0.356	96
B5240U1	16	7x24	1 Pair	0.010	0.037	0.249	35
B5202U1	16	7x24	1 Quad	0.010	0.025	0.291	61
B5340U1	18	7x26	1 Pair	0.010	0.037	0.227	26
B5302U1	18	7x26	1 Quad	0.010	0.025	0.254	44

Belden New Generation

Waterdog Indoor/Outdoor Direct Burial Cable Shielded FPL/PLTC/CMG

BELDEN

Power limited circuit and communications cable for outdoor use and indoor use. PLTC-ER (exposed run) may be run exclusive of conduit or cable tray beyond six feet, where permitted. For use in remote control, signaling, security systems, communications, intercom/P.A. systems, sound/audio and nurse call.



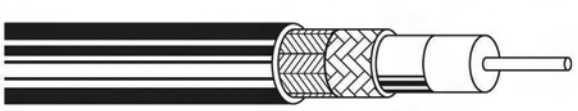
SPECIFICATIONS

1. CONDUCTOR: Stranded bare copper conductor
2. INSULATION: Polyvinyl chloride (PVC) or polypropylene (PP)
3. WATER-BLOCKING: Tape swells when moistened, blocking water infiltration
4. SHIELDING: Beldfoil shield applied overall with a drain wire
5. JACKET: Black or red polyvinyl chloride PVC with rip cord
6. STANDARDS: NEC: CMG, FPL, PLTC-ER; CEC: CMG, FT4
7. TEMPERATURE: 75°C

Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5140F1	14	19x27	1 Pair	0.014	0.042	0.326	68
B5240F1	16	7x24	1 Pair	0.010	0.037	0.254	42
B5202F1	16	7x24	1 Quad	0.010	0.025	0.295	67
B5340F1	18	7x26	1 Pair	0.010	0.037	0.232	32
B5302F1	18	7x26	1 Quad	0.010	0.025	0.259	48

Waterdog Indoor/Outdoor CCTV/MATV Coaxial Cable CM

BELDEN



SPECIFICATIONS

1. CONDUCTOR: Solid bare copper conductor
2. INSULATION/DIELECTRIC: Foamed polyethylene (FPE)
3. SHIELDING: Tinned copper, 95% braid coverage, plus 100% foil
4. BLOCKING: Water-blocking tape or core guard grease
5. OVERALL JACKET: Black polyvinyl chloride (PVC)
6. STANDARDS: NEC: CM, UL Listed

APPLICATIONS

For use in CCTV/MATV systems (indoor/outdoor).

Anixter No.	RG Type	Nominal Imped. (Ohms)	Nominal Capacitance (pF/ft.)	Nom. Vel. of Prop.	AWG	Nominal Insulation O.D. (in.)	Shield	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Rating
B5439W5	RG59	75	16.3	83%	20	0.145	Foil + 95% TC Braid	-----	0.236	34	CM

Belden New Generation

Waterdog Indoor/Outdoor CCTV Coaxial Cable CM

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Solid bare copper conductor
2. INSULATION/DIELECTRIC: Foamed polyethylene (FPE)
3. SHIELDING: Bare copper, 95% braid coverage
4. BLOCKING: Water-blocking tape
5. OVERALL JACKET: Black polyvinyl chloride (PVC)
6. STANDARDS: NEC: CM, UL Listed; CEC: CM

APPLICATIONS

For use in closed-circuit television systems (CCTV) and surveillance application (indoor/outdoor).

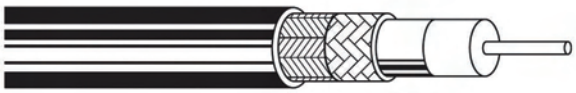
Anixter No.	RG Type	Nominal Imped. (Ohms)	Nominal Capacitance (pF/ft.)	Nom. Vel. of Prop.	AWG	Nominal Insulation O.D. (in.)	Shield Coverage	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Rating
B5339X5	RG6	75	16.3	83%	18	0.180	95% BC Braid	0.027	0.279	42	CM
B5439X5	RG59	75	16.3	83%	20	0.145	95% BC Braid	-----	0.244	34	CM
B5399X5	RG6	75	16.3	83%	18	0.180	95% BC Braid	-----	0.279 x 0.235	69	CM
B5499X5	RG59	75	16.3	83%	20	0.145	95% BC Braid	-----	0.249 x 0.222	69	CM

Waterdog Indoor/Outdoor CCTV/MATV Coaxial Cable CM

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Solid bare copper conductor
2. INSULATION/DIELECTRIC: Foamed polyethylene (FPE)
3. SHIELDING: Aluminum, 60% braid coverage, plus 100% foil
4. BLOCKING: Water-blocking tape or core guard grease
5. OVERALL JACKET: Black polyvinyl chloride (PVC)
6. STANDARDS: NEC: CM, UL Listed; CEC: CM



APPLICATIONS

For use in CCTV/MATV systems (indoor/outdoor).

Anixter No.	RG Type	Nominal Imped. (Ohms)	Nominal Capacitance (pF/ft.)	Nom. Vel. of Prop.	AWG	Nominal Insulation O.D. (in.)	Shield	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Rating
B5339V5	RG6	75	16.3	83%	18	0.180	Foil + 60% AL Braid	-----	0.277	25	CM
B5339W5	RG6	75	16.3	83%	18	0.180	Foil + 60% AL Braid		0.270	31	CM

Belden New Generation

Riser Fire Alarm Unshielded

BELDEN

Power limited fire alarm and communications cable for riser or non-riser applications. Fire alarm, smoke detectors, signaling, fire protective circuits.

SPECIFICATIONS

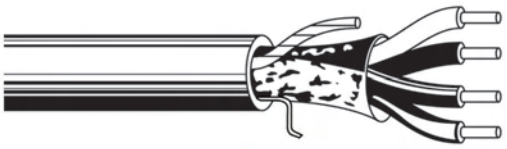
1. CONDUCTOR: Solid bare copper
2. INSULATION: Polyvinyl chloride (PVC) or polypropylene (PP)
3. JACKET: Red polyvinyl chloride (PVC) with rip cord
4. STANDARDS: NEC: FPLR, UL Listed
5. TEMPERATURE: 75°C

Anixter No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5020UL	12	2	0.010	0.017	0.239	54
B5120UL	14	2	0.010	0.017	0.205	38
B5122UL	14	4	0.010	0.017	0.240	65
B5220UL	16	2	0.007	0.017	0.160	24
B5222UL	16	4	0.007	0.017	0.193	43
B5320UL	18	2	0.007	0.017	0.143	16
B5322UL	18	4	0.007	0.017	0.166	28
B5324UL	18	6	0.010	0.015	0.211	40
B5329UL	18	12	0.007	0.018	0.262	77
B5522UL	22	4	0.010	0.015	0.125	15

Riser Fire Alarm Shielded

BELDEN

Power limited fire alarm and communications cable for riser and conduit applications. Fire alarm, smoke detectors, signaling, fire protective circuits.



SPECIFICATIONS

1. CONDUCTOR: Solid bare copper
2. INSULATION: Polyvinyl chloride (PVC) or polypropylene (PP)
3. SHIELDING: Beldfoil shield with a drain wire
4. JACKET: Red polyvinyl chloride PVC with rip cord
5. STANDARDS: NEC: FPLR, UL Listed
6. TEMPERATURE: 75°C

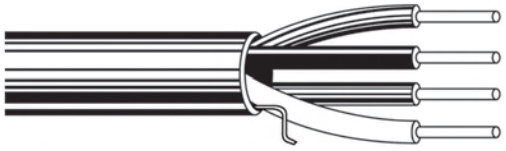
Anixter No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5020FL	12	2	0.010	0.017	0.243	60
B5120FL	14	2	0.010	0.017	0.209	37
B5122FL	14	4	0.013	0.015	0.255	66
B5220FL	16	2	0.007	0.017	0.170	25
B5222FL	16	4	0.010	0.015	0.208	45
B5320FL	18	2	0.007	0.017	0.147	22
B5322FL	18	4	0.007	0.017	0.170	31
B5522FL	22	4	0.010	0.015	0.145	19

Belden New Generation

Plenum Fire Alarm Unshielded

BELDEN

Power limited fire alarm and communications cable for plenum applications. Fire alarm, smoke detectors, signaling, fire protective circuits.



SPECIFICATIONS

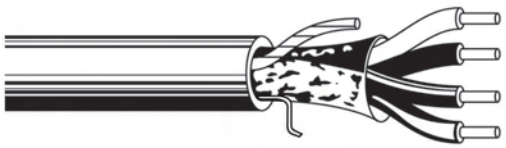
1. CONDUCTOR: Solid bare copper
2. INSULATION: Flamarrest
3. JACKET: Red Flamarrest with rip cord
4. STANDARDS: NEC: FPLP, UL Listed
5. TEMPERATURE: 75°C

Anixter No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B6020UL	12	2	0.010	0.015	0.235	55
B6120UL	14	2	0.010	0.015	0.205	38
B6122UL	14	4	0.010	0.015	0.236	70
B6220UL	16	2	0.008	0.015	0.166	24
B6222UL	16	4	0.008	0.015	0.194	44
B6320UL	18	2	0.008	0.015	0.144	17
B6321UL	18	3	0.010	0.015	0.160	25
B6322UL	18	4	0.008	0.015	0.166	30
B6324UL	18	6	0.010	0.015	0.211	46
B6326UL	18	8	0.010	0.015	0.230	59
B6328UL	18	10	0.010	0.015	0.272	73
B6522UL	22	4	0.009	0.015	0.136	16

Plenum Fire Alarm Shielded

BELDEN

Power limited fire alarm and communications cable for plenum applications. Fire alarm, smoke detectors, signaling, fire protective circuits.



SPECIFICATIONS

1. CONDUCTOR: Solid bare copper
2. INSULATION: Flamarrest
3. SHIELDING: Beldfoil shield with a drain wire
4. JACKET: Red Flamarrest with rip cord
5. STANDARDS: NEC: FPLP, UL Listed
6. TEMPERATURE: 75°C

Anixter No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B6020FL	12	2	0.011	0.015	0.243	61
B6120FL	14	2	0.011	0.015	0.209	45
B6122FL	14	4	0.011	0.015	0.245	77
B6220FL	16	2	0.010	0.015	0.178	28
B6222FL	16	4	0.010	0.015	0.208	54
B6320FL	18	2	0.010	0.015	0.155	22
B6322FL	18	4	0.010	0.015	0.180	36

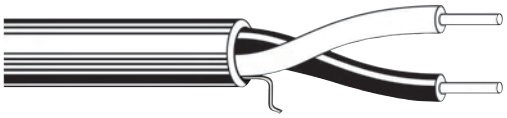
Belden New Generation

Addressable Mid-capacitance Unshielded

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Solid bare copper
2. INSULATION: Foamed high-density polyethylene (FHDPE)
3. JACKET: Red polyvinyl chloride (PVC) with rip cord
4. STANDARDS: NEC: FPL, UL Listed
5. CAPACITANCE: 13 pF/ft.
6. TEMPERATURE: 75°C



APPLICATIONS

For use with addressable fire alarm systems, mid-capacitance.

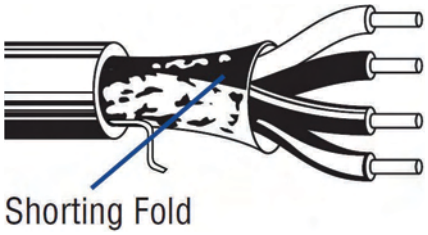
Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5220UJ	16	Solid	2	0.015	0.033	0.230	32
B5320UJ	18	Solid	2	0.015	0.033	0.206	22

Addressable Mid-capacitance Shielded

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Solid bare copper
2. INSULATION: Foamed high-density polyethylene (FHDPE)
3. SHIELDING: Beldfoil shield with drain wire
4. JACKET: Red polyvinyl chloride (PVC) with rip cord
5. STANDARDS: NEC: FPL, UL Listed
6. TEMPERATURE: 75°C



APPLICATIONS

For use with addressable fire alarm systems, mid-capacitance.

Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)	Approx. Wt. lb./1,000 ft.
B5020FJ	12	Solid	2	0.020	0.033	0.317	36	69
B5120FJ	14	Solid	2	0.020	0.033	0.279	29.9	49
B5220FJ	16	Solid	2	0.015	0.033	0.235	31	37
B5222FJ	16	Solid	4	0.015	0.033	0.269	22	59
B5320FJ	18	Solid	2	0.015	0.033	0.211	26.5	28
B5322FJ	18	Solid	4	0.015	0.033	0.240	20	43

Belden New Generation

Addressable Mid-capacitance Fire Alarm Unshielded FPLP

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Solid bare copper
2. INSULATION: Fluorinated ethylene-propylene (FEP)
3. JACKET: Red Flamarrest with rip cord
4. STANDARDS: NEC: FPLP, UL Listed
5. CAPACITANCE: 26 pF/ft.
6. TEMPERATURE: 75°C

APPLICATIONS

For use with addressable fire alarm systems mid-capacitance.

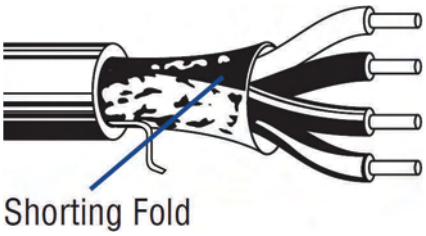
Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B6120UJ	14	Solid	2	0.007	0.015	0.186	32
B6220UJ	16	Solid	2	0.007	0.015	0.162	24
B6320UJ	18	Solid	2	0.007	0.015	0.138	16

Addressable Mid-capacitance Fire Alarm Shielded FPLP

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Solid bare copper
2. INSULATION: Fluorinated ethylene-propylene (FEP)
3. SHIELDING: Beldfoil shield with drain wire
4. JACKET: Red Flamarrest with rip cord
5. STANDARDS: NEC: FPLP, UL Listed
6. TEMPERATURE: 75°C



APPLICATIONS

For use with addressable fire alarm systems mid-capacitance.

Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)	Approx. Wt. lb./1,000 ft.
B6220FK	16	Solid	2	0.018	0.015	0.210	31	37
B6320FK	18	Solid	2	0.018	0.015	0.185	26	27

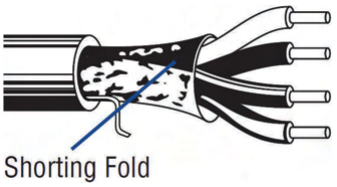
Belden New Generation

NPLF Fire Alarm Shielded

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Solid bare copper
2. INSULATION: Nylon/polyvinyl chloride (PVC)
3. SHIELDING: Beldfoil shield with drain wire
4. JACKET: Red polyvinyl chloride (PVC)
5. STANDARDS: NEC: NPLF, UL Listed
6. TEMPERATURE: 75°C



APPLICATIONS

Non-power limiting (NPLF) fire alarm cable.

Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5020FN	12	Solid	2	0.021	0.042	0.337	86
B5120FN	14	Solid	2	0.021	0.042	0.303	61
B5122FN	14	Solid	4	0.021	0.042	0.348	102
B5220FN	16	Solid	2	0.021	0.037	0.266	45
B5222FN	16	Solid	4	0.021	0.042	0.315	76
B5320FN	18	Solid	2	0.021	0.037	0.243	35
B5322FN	18	Solid	4	0.021	0.042	0.287	62

FPLR-CIC Fire Alarm Unshielded

BELDEN

Circuit Integrity cable for in-conduit applications. Two hour rated fire alarm, notification devices, signaling, fire protective circuits. Two-hour in-conduit cables for survivability requirements according to NFPA101. Zero halogen cables.

SPECIFICATIONS

1. Article 760 of NEC for Fire Alarm Circuit Integrity (CI). NEC-FPLR. UL Standard 2196
2. CONDUCTOR: Bare copper solid conductors
3. INSULATION: Thermoset elastomer insulation
4. JACKET: Red polyolefin (PO)
5. STANDARDS: NEC: FPLR, UL Listed. UL 2196 for Circuit Integrity in conduit, UL Electrical Circuit Protective Systems FHIT #30

Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5000UZ	12	7x20	2	0.035	0.056	0.440	105
B5020UZ	12	Solid	2	0.035	0.056	0.420	101
B5100UZ	14	7x22	2	0.035	0.056	0.400	87
B5120UZ	14	Solid	2	0.035	0.056	0.380	79
B5200UZ	14	Solid	2	0.035	0.056	0.370	68
B5220UZ	16	Solid	2	0.035	0.056	0.350	64
B5320UZ	18	Solid	2	0.041	0.045	0.360	57

Belden New Generation

FPLR-CIC Fire Alarm Shielded

BELDEN

Circuit Integrity cable for in-conduit applications. Fire alarm, notification devices, signaling, fire protective circuits. Two-hour direct flame cables for survivability requirements according to NFPA101. Zero halogen cables.

SPECIFICATIONS

1. Article 760 of NEC for Fire Alarm Circuit Integrity (CI) in conduit. NEC-FPLR. UL Standard 2196
2. CONDUCTOR: Bare copper stranded and solid conductors
3. INSULATION: Thermoset elastomer insulation
4. SHIELDING: Corrosion-resistant Beldfoil shield, 100 percent coverage with tinned copper drain wire
5. JACKET: Red polyolefin (PO)
6. STANDARDS: NEC: FPLR, UL Listed. UL Electrical Circuit Protective Systems FHIT #30

Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5000FZ	12	7x20	2	0.035	0.056	0.440	119
B5020FZ	12	Solid	2	0.035	0.056	0.420	117
B5022FZ	12	Solid	4	0.035	0.056	0.480	184
B5100FZ	14	7x22	2	0.035	0.056	0.410	97
B5120FZ	14	Solid	2	0.035	0.056	0.380	90
B5122FZ	14	Solid	4	0.035	0.056	0.440	138
B5200FZ	16	7x24	2	0.035	0.056	0.370	75
B5220FZ	16	Solid	2	0.035	0.056	0.360	71
B5222FZ	16	Solid	4	0.035	0.056	0.410	108
B5320FZ	18	Solid	2	0.041	0.045	0.363	59

FPLR-CI Fire Alarm Unshielded

BELDEN

Circuit Integrity cable for in-conduit applications. Two hour rated fire alarm, notification devices, signaling, fire protective circuits. Two-hour in-conduit cables for survivability requirements according to NFPA101. Zero halogen cables.

SPECIFICATIONS

1. Article 760 of NEC for Fire Alarm Circuit Integrity (CI). NEC-FPLR. UL Standard 2196
2. CONDUCTOR: Bare copper solid conductors
3. INSULATION: Thermoset elastomer insulation
4. JACKET: Red polyolefin (PO)
5. STANDARDS: NEC: FPLR, UL Listed. UL 2196 for Circuit Integrity in conduit, UL Electrical Circuit Protective Systems FHIT #30

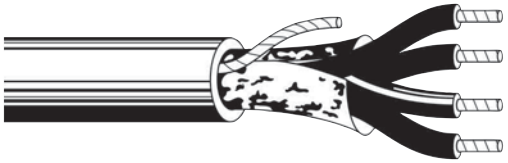
Anixter No.	Conductor Size AWG	No. of Conductors	Conductor Strand	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5020UM	12	2	Solid	0.034	0.045	0.392	96
B5022UM	12	4	Solid	0.034	0.045	0.454	164
B5120UM	14	2	Solid	0.034	0.045	0.360	73
B5122UM	14	4	Solid	0.034	0.045	0.411	123
B5220UM	16	2	Solid	0.034	0.045	0.329	59
B5222UM	16	4	Solid	0.034	0.045	0.377	97
B5320UM	18	2	Solid	0.034	0.045	0.308	47
B5322UM	18	4	Solid	0.034	0.045	0.353	73
B5324UM	18	6	Solid	0.034	0.045	0.417	100
B5326UM	18	6	Solid	0.034	0.045	0.451	121

Belden New Generation

FPLR-CI Fire Alarm Shielded

BELDEN

Circuit Integrity cable for riser applications, non-conduit and nonplenum. Fire alarm, notification devices, signaling, fire protective circuits. Two-hour direct flame cables for survivability requirements according to NFPA101. Zero halogen cables.



SPECIFICATIONS

1. Article 760 of NEC for Fire Alarm Circuit Integrity (CI). NEC-FPLR-CI. UL Standard 2196
2. CONDUCTOR: Bare copper stranded and solid conductors
3. INSULATION: Thermoset elastomer insulation
4. SHIELDING: Corrosion-resistant Beldfoil shield 100 percent coverage with tinned copper drain wire
5. JACKET: Red polyolefin (PO)
6. STANDARDS: NEC: FPLR-CI, UL Listed

Anixter No.	Conductor Size AWG	Conductor Strand	No. of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B5020FM	12	Solid	2	0.034	0.045	0.392	112
B5022FM	12	Solid	4	0.034	0.045	0.457	180
B5000FM	12	7x20	2	0.034	0.045	0.417	117
B5002FM	12	7x20	4	0.034	0.045	0.484	189
B5120FM	14	Solid	2	0.034	0.045	0.360	84
B5122FM	14	Solid	4	0.034	0.045	0.411	133
B5100FM	14	7x22	2	0.034	0.045	0.384	93
B5102FM	14	7x22	4	0.034	0.045	0.442	146
B5220FM	16	Solid	2	0.034	0.045	0.331	66
B5201FR	16	7x24	3	0.034	0.045	0.371	92
B5222FM	16	Solid	4	0.034	0.045	0.380	103
B5200FM	16	7x24	2	0.034	0.045	0.350	71
B5202FM	16	7x24	4	0.034	0.045	0.401	112
B5320FM	18	Solid	2	0.034	0.045	0.314	50
B5322FM	16	Solid	4	0.034	0.045	0.358	78
B5324FM	18	Solid	6	0.034	0.045	0.422	106
B5326FM	18	Solid	8	0.034	0.045	0.457	126
B5300FM	18	7x26	2	0.034	0.045	0.320	57
B5302FM	18	7x26	4	0.034	0.045	0.372	103
B5304FM	18	7x26	6	0.034	0.045	0.440	120
B5306FM	18	7x26	8	0.034	0.045	0.471	145

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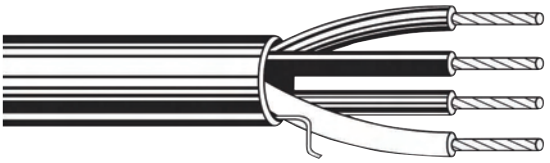


PVC
Bare copper conductor
UL Listed Type CMR, CL3R

SPECIFICATIONS

1. CONDUCTOR: Bare copper, stranded or solid
2. INSULATION: Polyvinyl chloride (PVC)
3. OVERALL JACKET: Gray polyvinyl chloride (PVC)
4. STANDARDS: NEC: CMR (22-16 AWG), CL3R (14-12 AWG); NEC Article(s) 800, 725
5. RATINGS: 75°C, 300 V

APPLICATIONS

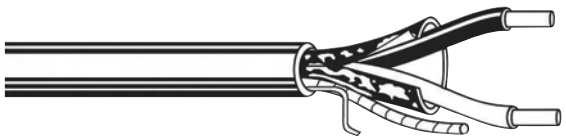
For use in security systems, intercom systems, sound/audio systems, access control, power-limited controls.

Anixter No.	Conductor Size AWG	No. of Conductors	Rating	Insulation	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
AL-2202C-1-1N-09	22 (SOL)	2	CMR	PVC	0.007	0.015	0.122	8
AL-2202C-2-1N-09	22	2	CMR	PVC	0.007	0.015	0.120	11
AL-2203C-2-1N-09	22	3	CMR	PVC	0.007	0.015	0.131	14
AL-2204C-2-1N-09	22	4	CMR	PVC	0.007	0.015	0.142	16
AL-2204C-1-1N-09	22 (SOL)	4	CMR	PVC	0.007	0.015	0.135	14
AL-2206C-2-1N-09	22	6	CMR	PVC	0.007	0.015	0.170	24
AL-2208C-2-1N-09	22	8	CMR	PVC	0.007	0.018	0.190	31
AL-2210C-2-1N-09	22	10	CMR	PVC	0.007	0.020	0.210	39
AL-2212C-2-1N-09	22	12	CMR	PVC	0.007	0.022	0.229	15
AL-2002C-2-1N-09	20	2	CMR	PVC	0.008	0.015	0.148	21
AL-2003C-2-1N-09	20	3	CMR	PVC	0.010	0.015	0.161	26
AL-2004C-2-1N-09	20	4	CMR	PVC	0.010	0.018	0.178	26
AL-1802C-2-1N-09	18	2	CMR	PVC	0.009	0.015	0.172	16
AL-1803C-2-1N-09	18	3	CMR	PVC	0.009	0.015	0.187	30
AL-1804C-2-1N-09	18	4	CMR	PVC	0.009	0.018	0.203	37
AL-1806C-2-1N-09	18	6	CMR	PVC	0.009	0.020	0.226	52
AL-1808C-2-1N-09	18	8	CMR	PVC	0.009	0.020	0.242	66
AL-1602C-2-1N-09	16	2	CMR	PVC	0.009	0.018	0.198	30
AL-1604C-2-1N-09	16	4	CMR	PVC	0.009	0.020	0.234	54
AL-1402C-2-1N-09	14	2	CL3R	PVC	0.010	0.025	0.238	45
AL-1404C-2-1N-09	14	4	CL3R	PVC	0.010	0.025	0.286	74
AL-1202C-2-1N-09	12	2	CL3R	PVC	0.011	0.028	0.296	68

Standard color is gray, other colors available.
Most items available on spools or boxes except on larger O.D. products.
Diameters and weights may vary among manufacturers.
Paired conductors also available.

Standard Security Cable

Security/Alarm/Access Control/Sound Low-voltage Cable Shielded Nonplenum



PVC
Bare copper conductor
UL Listed Type CMR, CL3R

SPECIFICATIONS

1. CONDUCTOR: Bare copper, stranded or solid
2. INSULATION: Polyvinyl chloride (PVC)
3. SHIELDING: Aluminum/polyester with tinned copper drain wire
4. OVERALL JACKET: Gray polyvinyl chloride (PVC)
5. STANDARDS: NEC: CMR (22-16 AWG), CL3R (14-12 AWG); NEC Article(s) 800, 725
6. RATINGS: 75°C, 300 V

APPLICATIONS

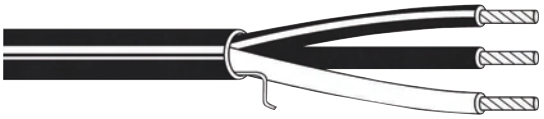
For use in security systems, intercom systems, sound/audio systems, access control, power-limited controls.

Anixter No.	Conductor Size AWG	No. of Conductors	Rating	Insulation	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
AL-2202C-1-1S-09	22 (SOL)	2	CMR	PVC	0.007	0.015	0.128	14
AL-2202C-2-1S-09	22	2	CMR	PVC	0.007	0.015	0.121	14
AL-2203C-2-1S-09	22	3	CMR	PVC	0.007	0.017	0.127	15
AL-2204C-1-1S-09	22 (SOL)	4	CMR	PVC	0.007	0.015	0.142	19
AL-2204C-2-1S-09	22	4	CMR	PVC	0.007	0.015	0.142	19
AL-2206C-2-1S-09	22	6	CMR	PVC	0.007	0.015	0.176	27
AL-2208C-2-1S-09	22	8	CMR	PVC	0.007	0.018	0.189	34
AL-2210C-2-1S-09	22	10	CMR	PVC	0.007	0.020	0.225	42
AL-2212C-2-1S-09	22	12	CMR	PVC	0.007	0.022	0.232	48
AL-2002C-2-1S-09	20	2	CMR	PVC	0.008	0.015	0.151	18
AL-2003C-2-1S-09	20	3	CMR	PVC	0.007	0.017	0.145	19
AL-2004C-2-1S-09	20	4	CMR	PVC	0.007	0.017	0.159	23
AL-1802C-2-1S-09	18	2	CMR	PVC	0.009	0.015	0.178	25
AL-1803C-2-1S-09	18	3	CMR	PVC	0.009	0.015	0.185	32
AL-1804C-2-1S-09	18	4	CMR	PVC	0.009	0.018	0.205	40
AL-1806C-2-1S-09	18	6	CMR	PVC	0.009	0.020	0.230	60
AL-1808C-2-1S-09	18	8	CMR	PVC	0.009	0.020	0.262	64
AL-1602C-2-1S-09	16	2	CMR	PVC	0.009	0.018	0.200	33
AL-1604C-2-1S-09	16	4	CMR	PVC	0.009	0.020	0.217	58
AL-1404C-2-1S-09	14	4	CL3R	PVC	0.010	0.025	0.261	76
AL-1402C-2-1S-09	14	2	CL3R	PVC	0.010	0.025	0.252	52
AL-1202C-2-1S-09	12	2	CL3R	PVC	0.011	0.028	0.303	77

Standard color is gray, other colors available.
Most items available on spools or boxes except on larger O.D. products.
Diameters and weights may vary among manufacturers.
Paired conductors also available.

Standard Security Cable

Security/Alarm/Access Control/Sound Low-voltage Cable Nonshielded Plenum



FRPVC
Bare copper conductor
UL Listed Type CMP, CL3P

SPECIFICATIONS

1. CONDUCTOR: Bare copper, stranded or solid
2. INSULATION: Flame-retardant polyvinyl chloride (FRPVC)
3. OVERALL JACKET: Natural (white) flame-retardant polyvinyl chloride (FRPVC)
4. STANDARDS: NEC: CMP (22-16 AWG), CL3P (14-12 AWG); NEC Article(s) 800, 725
5. RATINGS: 75°C, 300 V

APPLICATIONS

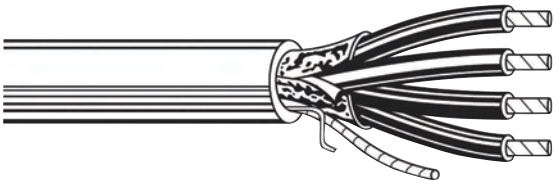
For use in security systems, intercom systems, sound/audio systems, access control, power-limited controls.

Anixter No.	Conductor Size AWG	No. of Conductors	Rating	Insulation	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
AL-2202C-2-2N-01	22	2	CMP	FRPVC	0.007	0.015	0.110	11
AL-2202C-1-2N-01	22 (SOL)	2	CMP	FRPVC	0.007	0.015	0.103	11
AL-2203C-2-2N-01	22	3	CMP	FRPVC	0.007	0.015	0.117	14
AL-2204C-2-2N-01	22	4	CMP	FRPVC	0.007	0.015	0.127	17
AL-2204C-1-2N-01	22 (SOL)	4	CMP	FRPVC	0.007	0.015	0.119	17
AL-2206C-2-2N-01	22	6	CMP	FRPVC	0.007	0.015	0.168	22
AL-2208C-2-2N-01	22	8	CMP	FRPVC	0.007	0.015	0.183	30
AL-2210C-2-2N-01	22	10	CMP	FRPVC	0.007	0.015	0.110	42
AL-2212C-2-2N-01	22	12	CMP	FRPVC	0.007	0.015	0.110	44
AL-2002C-2-2N-01	20	2	CMP	FRPVC	0.008	0.015	0.124	13
AL-2003C-2-2N-01	20	3	CMP	FRPVC	0.008	0.015	0.127	17
AL-2004C-2-2N-01	20	4	CL3P	FRPVC	0.008	0.015	0.110	23
AL-1802C-2-2N-01	18	2	CMP	FRPVC	0.008	0.015	0.145	20
AL-1803C-2-2N-01	18	3	CMP	FRPVC	0.008	0.015	0.155	25
AL-1804C-2-2N-01	18	4	CMP	FRPVC	0.008	0.015	0.175	34
AL-1806C-2-2N-01	18	6	CMP	FRPVC	0.008	0.015	0.222	53
AL-1808C-2-2N-01	18	8	CMP	FRPVC	0.008	0.015	0.242	64
AL-1602C-2-2N-01	16	2	CMP	FRPVC	0.009	0.015	0.172	27
AL-1604C-2-2N-01	16	4	CMP	FRPVC	0.009	0.015	0.208	47
AL-1402C-2-2N-01	14	2	CL3P	FRPVC	0.010	0.017	0.222	40
AL-1404C-2-2N-01	14	4	CL3P	FRPVC	0.010	0.017	0.261	67
AL-1202C-2-2N-01	12	2	CL3P	FRPVC	0.011	0.017	0.256	61

Standard color is white, other colors available.
Most items available on spools or boxes except on larger O.D. products.
Diameters and weights may vary among manufacturers.
Paired conductors also available.

Standard Security Cable

Security/Alarm/Access Control/Sound Low-voltage Cable Shielded Plenum



FRPVC
Bare copper conductor
UL Listed Type CMP, CL3P

SPECIFICATIONS

1. CONDUCTOR: Bare copper, stranded or solid
2. INSULATION: Flame-retardant polyvinyl chloride (FRPVC)
3. SHIELDING: Aluminum/polyester with tinned copper drain wire
4. OVERALL JACKET: Natural (white) flame-retardant polyvinyl chloride (FRPVC)
5. STANDARDS: NEC: CMP (22-16 AWG), CL3P (14-12 AWG); NEC Article(s) 800, 725
6. RATINGS: 75°C, 300 V

APPLICATIONS

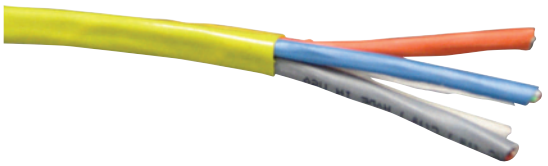
For use in security systems, intercom systems, sound/audio systems, access control, power-limited controls.

Anixter No.	Conductor Size AWG	No. of Conductors	Rating	Insulation	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
AL-2202C-2-2S-01	22	2	CMP	FRPVC	0.007	0.015	0.112	12
AL-2202C-1-2S-01	22 (SOL)	2	CMP	FRPVC	0.007	0.015	0.121	14
AL-2203C-2-2S-01	22	3	CMP	FRPVC	0.007	0.015	0.118	14
AL-2204C-2-2S-01	22	4	CMP	FRPVC	0.007	0.015	0.129	19
AL-2204C-1-2S-01	22 (SOL)	4	CMP	FRPVC	0.007	0.015	0.119	19
AL-2206C-2-2S-01	22	6	CMP	FRPVC	0.007	0.015	0.170	27
AL-2208C-2-2S-01	22	8	CMP	FRPVC	0.007	0.015	0.183	32
AL-2210C-2-2S-01	22	10	CMP	FRPVC	0.007	0.018	0.189	42
AL-2212C-2-2S-01	22	12	CMP	FRPVC	0.007	0.015	0.110	44
AL-2002C-2-2S-01	20	2	CMP	FRPVC	0.008	0.015	0.129	17
AL-2003C-2-2S-01	20	3	CMP	FRPVC	0.008	0.015	0.150	20
AL-2004C-2-2S-01	20	4	CMP	FRPVC	0.008	0.015	0.110	23
AL-1802C-2-2S-01	18	2	CMP	FRPVC	0.008	0.015	0.150	25
AL-1803C-2-2S-01	18	3	CMP	FRPVC	0.008	0.015	0.160	29
AL-1804C-2-2S-01	18	4	CMP	FRPVC	0.008	0.015	0.177	37
AL-1806C-2-2S-01	18	6	CMP	FRPVC	0.008	0.015	0.224	55
AL-1808C-2-2S-01	18	8	CMP	FRPVC	0.008	0.015	0.259	66
AL-1602C-2-2S-01	16	2	CMP	FRPVC	0.009	0.015	0.174	30
AL-1604C-2-2S-01	16	4	CMP	FRPVC	0.009	0.015	0.212	58
AL-1402C-2-2S-01	14	2	CL3P	FRPVC	0.010	0.017	0.229	50
AL-1404C-2-2S-01	14	4	CL3P	FRPVC	0.010	0.017	0.261	67
AL-1202C-2-2S-01	12	2	CL3P	FRPVC	0.011	0.017	0.274	69

Standard color is white, other colors available.
Most items available on spools or boxes except on larger O.D. products.
Diameters and weights may vary among manufacturers.
Paired conductors also available.

Standard Security Cable

Security Access Control Low-voltage Cable Plenum



FRPVC

Bare copper conductor

UL Listed Type CMP

SPECIFICATIONS

1. CONDUCTOR: Bare copper, stranded A325
2. INSULATION: Flame-retardant polyvinyl chloride (FRPVC)
3. SHIELDING: Aluminum/polyester with tinned copper drain wire (each component is shielded)
4. OVERALL JACKET: Yellow flame-retardant plenum jacket
5. STANDARDS: NEC: CMP, NEC Article(s) 800
6. RATINGS: 75°C, 300 V

APPLICATIONS

For use in security access control systems.

FLUOROPOLYMER (PVDF) JACKET

4-component composite cable; each component is shielded and jacketed. Diameters and weights may vary among manufacturers. Fluoropolymer jacket.

Anixter No.	Component 1 AWG Size Lock Power	Component 2 AWG Size Door Contact	Component 3 AWG Size Rex Spare	Component 4 AWG Size Card Reader	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
ACCESSJKTPLEN	18-4C	22-2C	22-4C	22-3P	0.435	126

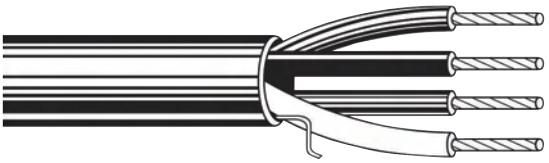
LOW SMOKE PVC JACKET

Each component is shielded and jacketed. For ACCESSPLENJKT1SHLD, only the 22-3P is shielded.

Anixter No.	Component 1 AWG Size Lock Power	Component 2 AWG Size Door Contact	Component 3 AWG Size Rex Spare	Component 4 AWG Size Card Reader	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
ACCESSPLENJKT1SHLD	18-4C	22-2C	22-4C	22-3P	0.435	126
ACCESSPLENJKT4SHLD	18-4C	22-2C	22-4C	22-3P	0.435	126

Standard Security Cable

Fire Alarm Cable Nonshielded Nonplenum



PVC

Solid conductor

FPLR, UL Listed

SPECIFICATIONS

1. CONDUCTOR: Solid bare copper
2. INSULATION: Polyvinyl chloride (PVC)
3. OVERALL JACKET: Polyvinyl chloride (PVC), red is standard, other colors available
4. STANDARDS: NEC: FPLR (riser), UL Listed
5. RATINGS: 75°C, 300 V

APPLICATIONS

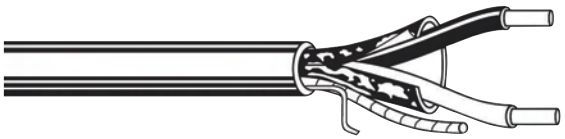
For use in power-limited fire and burglar alarms, smoke detectors and security systems.

Anixter No.	Conductor Size AWG	No. of Conductors	Rating	Insulation	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
FA-1202C-1-1N-03	12	2	FPLR	PVC	0.008	0.018	0.253	58
FA-1402C-1-1N-03	14	2	FPLR	PVC	0.011	0.018	0.216	42
FA-1404C-1-1N-03	14	4	FPLR	PVC	0.011	0.018	0.258	80
FA-1602C-1-1N-03	16	2	FPLR	PVC	0.010	0.015	0.176	26
FA-1604C-1-1N-03	16	4	FPLR	PVC	0.010	0.018	0.158	45
FA-1802C-1-1N-03	18	2	FPLR	PVC	0.010	0.015	0.166	23
FA-1804C-1-1N-03	18	4	FPLR	PVC	0.010	0.015	0.180	37
FA-1806C-1-1N-03	18	6	FPLR	PVC	0.010	0.015	0.220	50
FA-2204C-1-1N-03	22	4	FPLR	PVC	0.008	0.015	0.141	17

Note: -03 is for red jacket, other colors available.
Most items available on spools or boxes except on larger O.D. products.
Diameters and weights may vary among manufacturers.
Stranded conductor available in some constructions (sample part # FA-1802C-2-1N-03).

Standard Security Cable

Fire Alarm Cable Shielded Nonplenum



PVC

Solid conductor

FPLR, UL Listed

SPECIFICATIONS

1. CONDUCTOR: Solid bare copper
2. INSULATION: Polyvinyl chloride (PVC)
3. SHIELDING: Aluminum/polyester with tinned copper drain wire
4. OVERALL JACKET: Polyvinyl chloride (PVC), red is standard, other colors available
5. STANDARDS: NEC: FPLR (riser), UL Listed
6. RATINGS: 75°C, 300 V

APPLICATIONS

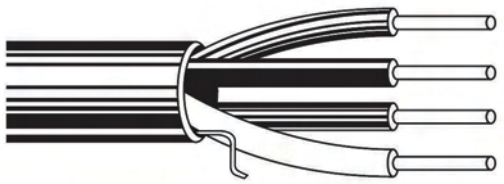
For use in power-limited fire and burglar alarms, smoke detectors and security systems.

Anixter No.	Conductor Size AWG	No. of Conductors	Rating	Insulation	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
FA-1202C-1-1S-03	12	2	FPLR	PVC	0.012	0.018	0.261	77
FA-1402C-1-1S-03	14	2	FPLR	PVC	0.011	0.018	0.224	43
FA-1404C-1-1S-03	14	4	FPLR	PVC	0.011	0.018	0.266	88
FA-1602C-1-1S-03	16	2	FPLR	PVC	0.010	0.015	0.184	32
FA-1604C-1-1S-03	16	4	FPLR	PVC	0.010	0.018	0.230	56
FA-1802C-1-1S-03	18	2	FPLR	PVC	0.010	0.015	0.166	23
FA-1804C-1-1S-03	18	4	FPLR	PVC	0.010	0.015	0.188	37
FA-2204C-1-1S-03	22	4	FPLR	PVC	0.008	0.015	0.141	19

Note: -03 is for red jacket, other colors available.
Most items available on spools or boxes except on larger O.D. products.
Diameters and weights may vary among manufacturers.
Stranded conductor available in some constructions (sample part # FA-1802C-2-1S-03).

Standard Security Cable

Fire Alarm Cable Nonshielded Plenum



FRPVC

Solid conductor

FPLP, UL Listed

SPECIFICATIONS

1. CONDUCTOR: Solid bare copper
2. INSULATION: Flame-retardant Polyvinyl Chloride (FRPVC)
3. OVERALL JACKET: Flame-retardant Polyvinyl Chloride (FRPVC), red is standard, other colors available
4. STANDARDS: NEC: FPLP (plenum), UL Listed
5. RATINGS: 75°C, 300 V

APPLICATIONS

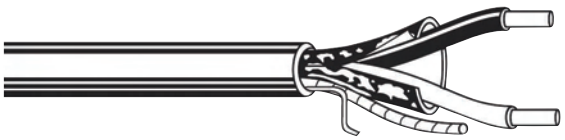
For use in power-limited fire and burglar alarms, smoke detectors and security systems.

Anixter No.	Conductor Size AWG	No. of Conductors	Rating	Insulation	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
FA-1202C-1-2N-03	12	2	FPLP	FRPVC	0.080	0.015	0.230	53
FA-1402C-1-2N-03	14	2	FPLP	FRPVC	0.080	0.015	0.189	37
FA-1404C-1-2N-03	14	4	FPLP	FRPVC	0.080	0.015	0.221	67
FA-1602C-1-2N-03	16	2	FPLP	FRPVC	0.080	0.015	0.163	26
FA-1604C-1-2N-03	16	4	FPLP	FRPVC	0.080	0.015	0.185	46
FA-1802C-1-2N-03	18	2	FPLP	FRPVC	0.080	0.015	0.134	19
FA-1804C-1-2N-03	18	4	FPLP	FRPVC	0.080	0.015	0.158	31
FA-1806C-1-2N-03	18	6	FPLP	FRPVC	0.080	0.015	0.205	45

Note: -03 is for red jacket, other colors available.
Most items available on spools or boxes except on larger O.D. products.
Diameters and weights may vary among manufacturers.
Stranded conductor available in some constructions (sample part # FA-1202C-2-2N-03).

Standard Security Cable

Fire Alarm Cable Shielded Plenum



FRPVC
Solid conductor
FPLP, UL Listed

SPECIFICATIONS

1. CONDUCTOR: Solid bare copper
2. INSULATION: Flame-retardant polyvinyl chloride (FRPVC)
3. SHIELDING: Aluminum/polyester with tinned copper drain wire
4. OVERALL JACKET: Flame-retardant polyvinyl chloride (FRPVC), red is standard, other colors available
5. STANDARDS: NEC: FPLP (plenum), UL Listed
6. RATINGS: 75°C, 300 V

APPLICATIONS

For use in power-limited fire and burglar alarms, smoke detectors and security systems.

Anixter No.	Conductor Size AWG	No. of Conductors	Rating	Insulation	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
FA-1202C-1-2S-03	12	2	FPLP	FRPVC	0.080	0.015	0.240	62
FA-1402C-1-2S-03	14	2	FPLP	FRPVC	0.080	0.015	0.198	45
FA-1404C-1-2S-03	14	4	FPLP	FRPVC	0.080	0.015	0.242	74
FA-1602C-1-2S-03	16	2	FPLP	FRPVC	0.080	0.015	0.177	28
FA-1604C-1-2S-03	16	4	FPLP	FRPVC	0.080	0.015	0.203	46
FA-1802C-1-2S-03	18	2	FPLP	FRPVC	0.080	0.015	0.154	21
FA-1804C-1-2S-03	18	4	FPLP	FRPVC	0.080	0.015	0.178	34

Note: -03 is for red jacket, other colors available.
Most items available on spools or boxes except on larger O.D. products.
Diameters and weights may vary among manufacturers.
Stranded conductor available in some constructions (sample part # FA-1202C-2-2S-03).

Standard Security Cable

CCTV Low-voltage Nonplenum

75 ohm
PVC
Solid bare copper conductor
UL Listed Type CM

SPECIFICATIONS

1. CONDUCTOR: Solid bare copper
2. INSULATION/DIELECTRIC: Foamed polyethylene (FPE) or foamed polyolefin (FPO)
3. SHIELDING: Bare copper, 95% braid coverage
4. OVERALL JACKET: Polyvinyl chloride (PVC) black
5. STANDARDS: NEC: CM; NEC Article 800
6. RATINGS: 75°C, 300 V

APPLICATIONS

For use in closed-circuit television systems (CCTV) and surveillance applications.

Anixter No.	RG Type	Nominal Imped. (Ohms)	Nominal Capacitance (pF/ft.)	Nom. Vel. of Prop.	AWG	Nominal Insulation O.D. (in.)	Shield Coverage	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Rating
RG59PVC	RG59	75	16.3	78%	20	0.144	95% BC Braid	0.240	35	CM, CL2
RG6PVC	RG6	75	16.3	78%	18	0.180	95% BC Braid	0.270	44	CM, CL2
RG11PVC	RG11	75	16.1	78%	14	0.280	95% BC Braid	0.400	87	CL3
RG59PVCSIAMESE	RG59	75	16.3	78%	20	0.144	95% BC Braid	0.285 x 0.360	60	CM, CL3
RG6PVCSIAMESE	RG6	75	16.3	78%	18	0.180	95% BC Braid	0.275 x 0.445	64	CM, CL2

Non-siamese types available in spool or box put ups.
Siamese constructions include 18-2 conductor.
Diameters and weights may vary among manufacturers.

Standard Security Cable

CCTV Low-voltage Plenum

75 ohm
FRPVC
Solid bare copper conductor
UL Listed Type CMP

SPECIFICATIONS

1. CONDUCTOR: Bare copper, stranded or solid
2. INSULATION/DIELECTRIC: Foamed fluorinated ethylene-propylene (FFEP)
3. SHIELDING: Bare copper, 95% braid coverage
4. OVERALL JACKET: White (natural) flame-retardant polyvinyl chloride (FRPVC)
5. STANDARDS: NEC: CMP; NEC Article 800
6. RATINGS: 75°C, 300 V

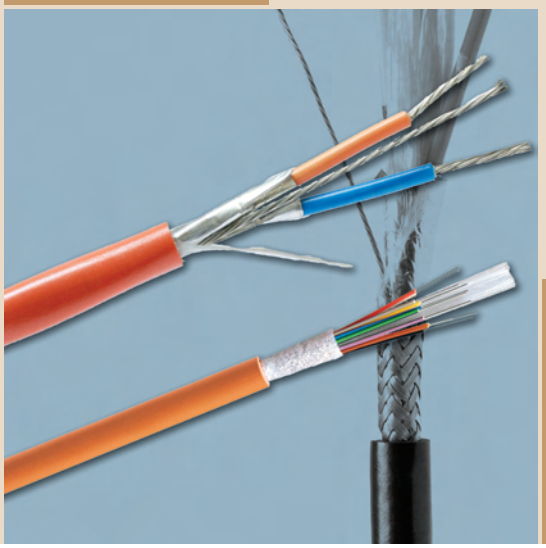
APPLICATIONS

For use in closed-circuit television systems (CCTV) and surveillance applications.

Anixter No.	RG Type	Nominal Imped. (Ohms)	Nominal Capacitance (pF/ft.)	Nom. Vel. of Prop.	AWG	Nominal Insulation O.D. (in.)	Shield Coverage	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Rating
RG59PLN	RG59	75	16.3	82%	20	0.135	95% BC Braid	0.193	32	CMP, CL2P
RG6PLN	RG6	75	16.3	82%	18	0.170	95% BC Braid	0.221	42	CMP, CL2P
RG11PLN	RG11	75	16.1	82%	14	0.274	95% BC Braid	0.335	90	CL3P
RG59SIAMESEPLN	RG59	75	16.3	82%	20	0.135	95% BC Braid	0.421 x 0.245	52	CMP
RG6SIAMESEPLN	RG6	75	16.3	82%	18	0.170	95% BC Braid	0.232 x 0.420	70	CMP, CL2P

Non-siamese types available in spool or box put ups.
Siamese constructions include 18-2 conductor.
Diameters and weights may vary among manufacturers.

6



Industrial Communication Cable

BELDEN COMMSCOPE® CORNING

THE Truth ABOUT Bending

Corning® ClearCurve® Multimode Fiber is fully standards compliant and backwards compatible. This means it mates seamlessly with other standards-compliant fibers and installs using the same tools and processes you're used to.

It comes standard in Corning Cable Systems 50 micron cables, so your cables have additional insurance against the pinches, pulls and pressures that *also* come standard in an enterprise network.

CORNING

LANscape® Solutions

Get the truth about bend-insensitive multimode fiber from the experts.

Industrial Ethernet

DataTuff Industrial Ethernet Cable Selection Guide

BELDEN

	Part No.	No. of Pairs	Shielding		Conductor		Installation		Environmental Issues									Industrial Grade Jacket		
			Unshielded	Shielded ▲	Solid	Stranded ▲▲	Installation Stress Resistance ††	Pull Tension	Oil Resistance	UV Sunlight Resistance	Weld - Splatter Resistance	CMX/ Outdoor	Under-ground (burial)	Gasoline Resistance	LSZH	MSHA	Hi/Lo Temp	Heavy	Upjacket	Armored
	Category 5e Cable																			
	7932A EtherNet/IP.	2	●		●		●	20	●	●								●		
	7933A EtherNet/IP.	2		●	●		●	20	●	●								●		
	7923A EtherNet/IP.	4	●		●		●	40	●	●		●				●		●		
	7918A	4	●		●			35	●	●		●				●		●		
	7924A	4	●			●	●	40	●	●		●						●		
	7930A	4	●			●		25	●	●		●						●		
	7922A PLTC	4	●		●		●	40	●	●		●						●		
	7934A EtherNet/IP.	4	●		●		●	40	●	●			●					●		
	7937A	4		●	●		●	40	●	●			●						●	
new	7939A	4		●		●	●	40	●	●		●						●		
	7928A EtherNet/IP.	4	●		●		●	40	●	●				●			●	●		
	11700A EtherNet/IP.	4	●		●		●	40	●	●		●				●			●	
	11700A2 Oil Res I&II	4	●		●		●	40	●	●									●	
	121700A	4	●		●		●	40	●	●										●
	121700R	4	●		●		●	40	●	●										●
	7929A	4		●	●		●	35	●	●		●				●		●		
	7919A	4		●	●			25	●	●		●				●		●		
	7921A EtherNet/IP.	4		●	●		●	75	●	●		●						●		
	7935A EtherNet/IP.	4	●		●		●	40		●					●			●		
	7936A	4		●	●		●	40		●					●			●		
new	7938A High Flex	4		●		●	●	50	●	●	●								●	
	Category 6 Cable																			
	7927A	4	●		●		●	45	●	●								●		
	7931A	4	●		●		●	40	●	●				●			●	●		
	7940A EtherNet/IP.	4	●		●		●	45	●	●		●						●		
	11872A	4	●		●		●	45											●	
new	7953A EtherNet/IP.	4		●	●		●	45	●	●		●							●	
	121872A	4	●		●		●	45	●	●										●

▲ Shielded products are recommended for high-noise environments.
▲▲ Stranded products are recommended where more flexibility is needed.
†† Products with Bonded-Pair technology provide Installable Performance® advantages — refer to Belden's Bonded-Pair Cable Bulletin #BP02

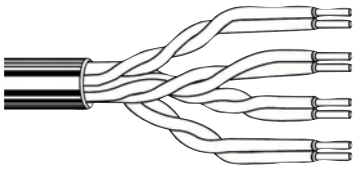
This chart is meant to help the user in proper cable selection.

Industrial Ethernet

Industrial Ethernet Cables

BELDEN

The reliability of your industrial Ethernet network depends on the cable infrastructure: data transmission errors can lead to interruptions in critical control functions resulting in lost production time and even safety issues. Belden has the right solution for your network, regardless of the work environment, whether it be exposure to sun, oil, temperature variations, abrasion, crushing or the presence of EMI/RFI.



CMP - PLENUM

Anixter No.	Vendor No.	Description	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Category
CMP-00424FAXT-5E-02	7928A 0101000	24 AWG, 4 pair, solid BC conductors, sun-, oil- and gas-resistant FEP jacket	0.187	24	ANSI/TIA Category 5e
B7931A	7931A 0101000	23 AWG, 4 pair, solid BC conductors, sun-, oil- and gas-resistant FEP jacket	0.214	37	ANSI/TIA Category 6

CMR/CMX - OUTDOOR

Anixter No.	Vendor No.	Description	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Category
B7923A	7923A 0101000	24 AWG, 4 pair, solid BC conductors, sun- and oil-resistant PVC jacket	0.230	30	ANSI/TIA Category 5e
CM-00424CAXS-5E-02	7921A 0101000	24 AWG, 4 pair, solid BC conductors, foil + 70% TC braid, sun- and oil-resistant PVC jacket, 24 AWG solid spiral drain wire	0.330	54	ANSI/TIA Category 5e
CM-00424CAXH-5E-02	7918A 0101000	24 AWG, 4 pair, solid BC conductors, sun- and oil-resistant PVC jacket, non-bonded pairs	0.230	28	ANSI/TIA Category 5e
B7922A	7922A 0102000	22 AWG, 4 pair, solid BC conductors, sun- and oil-resistant PVC jacket	0.301	46	ANSI/TIA Category 5e
B7929A	7929A 0101000	24 AWG, 4 pair, solid BC conductors, overall foil shield, sun- and oil-resistant PVC jacket, 24 AWG stranded TC drain wire (200 MHz)	0.265	37	ANSI/TIA Category 5e
CM-00424BELS-C5E-02	7919A 0101000	24 AWG, 4 pair, solid BC conductors, overall foil shield, sun- and oil-resistant PVC jacket, 24 AWG stranded TC drain wire (100 MHz)	0.265	35	ANSI/TIA Category 5e

CMR - NONPLENUM RISER RATED

Anixter No.	Vendor No.	Description	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Category
CM-00424CAXI-6-02	7927A 0101000	23 AWG, 4 pair, solid BC conductors, E-Spline center member, industrial grade sun- and oil-resistant PVC jacket	0.251 x 0.339	44	ANSI/TIA Category 6
CM-00224BELI-5E	7933A 0101000	24 AWG, 2 pair, solid BC conductors, overall foil shield, sun- and oil-resistant PVC jacket, drain wire	0.235	32	ANSI/TIA Category 5e

CM/CMG - NONPLENUM

Anixter No.	Vendor No.	Description	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Category
CM-00424CAXA-6B-02	121700A 0103000	24 AWG, 4 pair, solid BC conductors, aluminum interlocked armor, inner and outer PVC jacket	0.553	116	ANSI/TIA Category 5e
CM-00424CAMA-7B-02	121872A 0101000	23 AWG, 4 pair, solid BC conductors, aluminum interlocked armor, inner and outer PVC jacket	0.688	219	ANSI/TIA Category 6
CM-00424CAMD-7B-02	11872A 0101000	23 AWG, 4 pair, solid BC conductors, upjacketed, industrial grade inner and outer PVC jacket	0.475 x 0.265	66	ANSI/TIA Category 6

CM LOW SMOKE ZERO HALOGEN JACKET

Anixter No.	Vendor No.	Description	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Category	Shield
CMZ-00424BEL-C5E-02	7935A 0101000	24 AWG, 4 pair, solid BC conductors, polyolefin insulation, LSZH jacket	0.230	19	ANSI/TIA Category 5e	No
CMZ-00424BEL-SC5E-02	7936A 0101000	24 AWG, 4 pair, solid BC conductors, foil shield, polyolefin insulation, LSZH jacket, 24 AWG stranded TC drain wire	0.265	34	ANSI/TIA Category 5e	Yes

WATER-BLOCKED, SUNLIGHT AND OIL RESISTANT

Anixter No.	Vendor No.	Description	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Category
CM-00424BELDT-C5E-02	7937A 0101000	24 AWG, 4 pair, solid BC conductors, water-blocked, Beldfoil, PE inner jacket, sun- and oil-resistant PVC jacket, 24 AWG stranded TC drain wire, direct burial rated	0.276	33.5	ANSI/TIA Category 5e

Industrial Twinax

Blue Hose Cables

BELDEN

SPECIFICATIONS

1.CONDUCTOR: 20 AWG stranded (7x28) tinned copper (B9463F has 42x36 stranding)
2.COLOR CODE: Clear, blue
3.INSULATION: Polyethylene (B89463 has FEP insulation)
4.VOLTAGE RATING: 300 V
5.SHIELDING: Overall Beldfoil (Z-Fold, 100% coverage) and tinned copper braid shield (coverage varies, see specification below
6.NOMINAL IMPEDANCE: 78 ohms
7.NOM. VEL. OF PROP: 66% (B89463 is 69%)
8.NOMINAL ATTENUATION: 0.6 dB/100 ft. @ 1 MHz
2.1 dB/100 ft. @ 10 MHz
5.0 dB/100 ft. @ 50 MHz
7.5 dB/100 ft. @ 100 MHz
11.0 dB/100 ft. @ 200 MHz
16.0 dB/100 ft. @ 400 MHz

APPLICATIONS

A standard industrial data cable designed for use in PLC and DCS applications. The products listed below are each uniquely suited for specific industrial environments.
Allen Bradley Part Number 1770-CD
PMSHA Specification: P-7K-SC-182141
UL Recognized AWM Style 2464

B129463 and B139463 are rated for hazardous locations. All but B9463F contain a TC drain wire.

Anixter No.	Jacket Material	Braid Coverage	Nominal O.D. (in.)	Temperature Rating	NEC Rating	Approx. Wt. lb./1,000 ft.	Notes/Special Features
B9463	Sunlight-resistant PVC	55%	0.238	80°C	CM CL2	39	Standard Blue Hose
B9463DB	Sunlight-resistant LDPE	55%	0.240	80°C	-----	33	Direct Burial
B9463F	Sunlight-resistant PVC	85%	0.243	80°C	CM CL2	42	Highly Flexible
B89463	FEP	76%	0.203	200°C	CMP CL2P	34	Plenum Rated
B129463	Sunlight-resistant PVC	55%	0.553	60°C	CM CL2	143	Aluminum Interlock Armor
B139463	Sunlight-resistant PVC	55%	0.563	60°C	CM CL2	232	Steel Interlocked Armor
B189463	Sunlight-resistant PVC	55%	0.500	60°C	PLTC	127	Continuously Corrugated Aluminum

Industrial Twinax

DataTray 600 V Twinaxial Cables

BELDEN

SPECIFICATIONS

1. CONDUCTOR: 18 AWG stranded (7x26) tinned copper
2. COLOR CODE: Natural, blue
3. INSULATION: Flame-retardant PO
4. JACKET: Blue sunlight-resistant PVC
5. SHIELDING: Overall Beldfoil (Z-Fold, 100% coverage) and 55% TC braid shield
6. TEMPERATURE RATING: 75°C
7. VOLTAGE RATING: 600 V
8. NOM. VEL. OF PROP: 65%
9. NEC RATING: CMG, ITC, TC, PLTC

APPLICATIONS

Industrial twinaxial cables that are suitable for use in cable trays. These cables are designed for use in PLC and DCS applications in industrial environments.

Anixter No.	Nominal Core O.D. (in.)	Nominal O.D. (in.)	Impedance Ohms	Nominal Capacitance (pF/ft.)	Approx. Wt. lb./1,000 ft.
B3072F	0.192	0.324	78	19.5	69
B3073F	0.246	0.388	100	15.3	85
B3074F	0.328	0.460	124	12.3	118

Industrial Twinax for Square D PLC Systems

BELDEN

SPECIFICATIONS

1. CONDUCTOR: 20 AWG stranded (7x28) tinned copper
2. COLOR CODE: Clear, blue
3. INSULATION: Polyethylene
4. JACKET: Blue PVC jacket
5. SHIELDING: Tinned copper braid shield (93% coverage)
6. RATINGS: UL AWM Style 2092 (300 V 60°C), NEC: CM
7. NOMINAL ATTENUATION: 0.6 dB/100 ft. @ 1 MHz
   2.1 dB/100 ft. @ 10 MHz
   5.0 dB/100 ft. @ 50 MHz
   7.5 dB/100 ft. @ 100 MHz
   11.0 dB/100 ft. @ 200 MHz
   16 dB/100 ft. @ 400 MHz

Anixter No.	Nominal Core O.D. (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)	Vel. of Prop.%	Impedance Ohms	Approx. Wt. lb./1,000 ft.
B9272	0.156	0.244	19.7	66	78	41

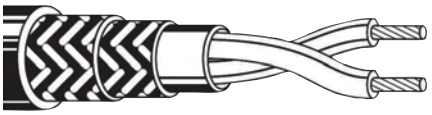
Industrial Twinax

Industrial Twinax for Legacy PLC Systems

BELDEN

SPECIFICATIONS

1. CONDUCTOR: 18 AWG stranded bare copper (one conductor has tinned copper center strand)
2. COLOR CODE: Clear, clear
3. INSULATION: Polyethylene
4. JACKET: Polyethylene inner, black non-contaminating PVC outer
5. SHIELDING: Double tinned copper braid shield (95% coverage)
6. RATINGS: 80°C, VW-1, RG Type 22B/U
7. NOMINAL ATTENUATION: 0.3 dB/100 ft. @ 1 MHz
   0.9 dB/100 ft. @ 10 MHz
   1.3 dB/100 ft. @ 20 MHz
   2.1 dB/100 ft. @ 50 MHz
   3.0 dB/100 ft. @ 100 MHz
   6.3 dB/100 ft. @ 400 MHz



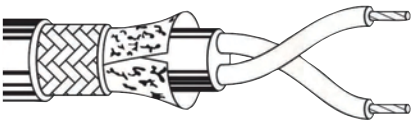
Anixter No.	Nominal Core O.D. (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)	Vel. of Prop.%	Impedance Ohms	Approx. Wt. lb./1,000 ft.
B9250	0.285	0.416	16	66	95	121

Industrial Twinax for Invensys/Foxboro, Matsushita and Omron PLC Systems

BELDEN

SPECIFICATIONS

1. CONDUCTOR: 20 AWG stranded - one tinned copper, one bare copper
2. COLOR CODE: Natural, natural
3. INSULATION: Polyethylene
4. JACKET: Polyethylene inner, black PVC outer
5. SHIELDING: Duofoil (100% coverage) and tinned copper braid shield (85% coverage)
6. RATINGS: 75°C, NEC; CMG CL2
7. NOMINAL ATTENUATION: 0.3 dB/100 ft. @ 1 MHz
   1.2 dB/100 ft. @ 10 MHz
   2.8 dB/100 ft. @ 50 MHz
   4.1 dB/100 ft. @ 100 MHz
   6.4 dB/100 ft. @ 200 MHz
   10.2 dB/100 ft. @ 400 MHz



Anixter No.	Nominal Core O.D. (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)	Vel. of Prop.%	Impedance Ohms	Approx. Wt. lb./1,000 ft.
B9207	0.236	0.330	14.5	66	100	68

Industrial Twinax for Honeywell PLC Systems

BELDEN

SPECIFICATIONS

1. CONDUCTOR: 25 AWG stranded tinned copper
2. COLOR CODE: Clear, blue
3. INSULATION: Polyethylene
4. JACKET: Blue PVC
5. SHIELDING: Beldfoil (100% coverage), 22 AWG TC drain wire
6. RATINGS: UL AWM Style 2092 (300 V, 60°C), NEC: CM
7. NOMINAL ATTENUATION: 0.6 dB/100 ft. @ 1 MHz
   1.7 dB/100 ft. @ 10 MHz
   3.6 dB/100 ft. @ 50 MHz
   5.0 dB/100 ft. @ 100 MHz
   6.9 dB/100 ft. @ 200 MHz
   9.6 dB/100 ft. @ 400 MHz

Anixter No.	Nominal Core O.D. (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)	Vel. of Prop.%	Impedance Ohms	Approx. Wt. lb./1,000 ft.
B9271	0.170	0.240	12.2	66	124	28

Industrial Twinax

Industrial Twinax for Matsushita PLC Systems

BELDEN

SPECIFICATIONS

1. CONDUCTOR: 16 AWG solid bare copper conductors
2. COLOR CODE: Clear, blue
3. INSULATION: Foam polyethylene
4. JACKET: Black PVC
5. SHIELDING: Duofoil (100% coverage) and tinned copper braid shield (90% coverage)
6. RATINGS: UL AWM Style 2448 (300 V 60°C), NEC: CMX
7. NOMINAL ATTENUATION: 0.2 dB/100 ft. @ 1 MHz
   0.7 dB/100 ft. @ 10 MHz
   1.8 dB/100 ft. @ 50 MHz
   2.9 dB/100 ft. @ 100 MHz
   4.1 dB/100 ft. @ 200 MHz
   6.2 dB/100 ft. @ 400 MHz

Anixter No.	Nominal Core O.D. (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)	Vel. of Prop.%	Impedance Ohms	Approx. Wt. lb./1,000 ft.
B9860	0.322	0.440	10.9	78	124	103

Industrial Twinax for Honeywell and GE PLC Systems

BELDEN

SPECIFICATIONS

1. CONDUCTOR: 22 AWG (19x34) stranded tinned copper
2. COLOR CODE: Black, yellow
3. SHIELDING: Duofoil (100% coverage), 22 AWG TC drain wire
4. NOMINAL IMPEDANCE: 150 ohms
5. NOMINAL CAPACITANCE: 8.8 pF/ft. (conductor to conductor)
6. VEL. OF PROPAGATION: 78%
7. RATINGS: B89182 UL Style 2668 (30 V 60°C)
8. NOMINAL ATTENUATION: 0.4 dB/100 ft. @ 1 MHz
   1.2 dB/100 ft. @ 10 MHz
   2.7 dB/100 ft. @ 50 MHz
   4.3 dB/100 ft. @ 100 MHz
   6.2 dB/100 ft. @ 200 MHz
   8.8 dB/100 ft. @ 400 MHz

Anixter No.	Insulation Material	Jacket Material	Nominal Core O.D. (in.)	Nominal O.D. (in.)	NEC Rating	Approx. Wt. lb./1,000 ft.
B9182	Datalene	Black PVC	0.275	0.345	CMX CL2X	44
B89182	Foam FEP	Black FEP	0.278	0.307	CMP CL2P	49

Industrial Coax

Industrial Coax

BELDEN

Anixter No.	RG Type	Conductor Stranding/Dia./ AWG /Type	Insulation Material/ (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./1,000 ft.	Notes/ Special Features
B83269	RG188	7/0.0205/ 26/SCCS	TFE/ 0.058	96% SCC Braid	TFE Tape/WHT/ 0.098	50	-----	12	-----
B83267	RG187	7/0.012/ 30/SCCS	TFE/ 0.063	95% SCC Braid	TFE Tape/WHT/ 0.103	75	-----	11	Rg 187 A/U Type
B9239	RG174	7/0.019/ 26/CCS	PE/0.044/ PVC/0.056	90% TC Braid	PVC/BLK/ 0.101	50	-----	8	Low Triboelectric Noise
B89269	RG62	1/0.025/ 22/CCS	FEP/ 0.142	94% BC Braid	FEP/BLK/ 0.200	93	CMP	36	-----
B87269	RG62	1/0.025/ 22/CCS	FEP/ 0.142	94% BC Braid	PVDF/GRY/ 0.200	93	CMP	34	-----
B86262	RG62	1/0.025/ 22/CCS	FFEP/ 0.146	94% BC Braid	FEP/WHT/ 0.204	93	CMP	35	-----
B82262	RG62	1/0.025/ 22/CCS	FFEP/ 0.146	94% BC Braid	FR-PVC/WHT/ 0.204	93	CMP	30	Low Smoke
B82269	RG62	1/0.025/ 22/CCS	FEP/ 0.142	94% BC Braid	FR-PVC/WHT/ 0.200	93	CMP	34	Low Smoke
B9269	RG62	1/0.025/ 22/CCS	PE/ 0.146	95% BC Braid	PVC/BLK/ 0.239	93	CM, CL2	36	-----
B9268	RG62	1/0.025/ 22/CCS	PE/ 0.146	95% BC Braid	PVC/BLK/ 0.260	93	CM, CL2	44	-----
B9228	RG62	1/0.025/ 22/CCS	PE/ 0.146	95% BC Braid	HDPE/BLK/ 0.242	93	-----	33	Direct Burial
B8255	RG62	7/0.024/ 24/CCS	PE/ 0.146	95% BC Braid	NC-PVC/BLK/ 0.242	93	CMX	34	-----
B8254	RG62	1/0.025/ 22/BCCS	PE/ 0.146	95% BC Braid	PVC/BLK/ 0.238	93	-----	36	Semi-solid PE
B7502A	RG59	19/0.031/ 22/SCBeCu	FPE/ 0.146	95% TC French Braid	PVC/BLU/ 0.242	75	-----	34	Belflex
B9224	RG59	1/0.025/ 22/CCS	PE/0.146/ PVC/0.154	93% BC Braid	PVC/BLK/ 0.242	75	-----	39	Low Triboelectric Noise
B9555	RG59 DUAL	2x1/0.023/ 23/CCS	PE/ 0.146	95% BC Braid	PVC/BLK/ 0.238 x 0.478	75	CM	78	Dual
B89555	RG59 DUAL	2x1/0.023/ 23/CCS	FEP/ 0.134	97% BC Braid	FEP/CLR/ 0.212 x 0.424	75	CMP	90	Dual
B9223	RG58	7/0.030/ 22/TC	PE/0.036/ PE/0.112	Duobond + 95% TC Braid	PVC/BLK/ 0.195	50	-----	24	Low Triboelectric Noise
B9222	RG58	7/0.038/ 20/TC	PE/ 0.120	95% TC Braid + 85% TC Braid	PVC/YEL/ 0.241	50	-----	37	-----
B3094A	RG11	1/0.064/ 14/BCCS	FFEP/ 0.280	Quad	PVC/GRY/ 0.407	75	CMR, CL2R	67	Control Bus
B3095A	RG11	1/0.064/ 14/BCCS	FFEP/ 0.280	Quad	PVDF/GRY/ 0.387	75	CMP	76	Control Bus
B7504A	RG11	259/0.065/ 16/BC	FPE/ 0.285	95% TC French Braid	PVC/BLU/ 0.405	75	-----	84	Belflex
B9888	RG8	7/0.108/ 11/BC	FPE/ 0.285	2-96% BC Braids	PE/BLK/ 0.480	50	-----	140	Triax

Industrial Coax

Anixter No.	RG Type	Conductor Stranding/Dia./ AWG /Type	Insulation Material/ (OD in.)	Shield	Jacket Material/Color/ (OD in.)	Imped. Ohms	Rating	Approx. Wt. lb./1,000 ft.	Notes/ Special Features
B3131A	RG6	1/0.040/ 18/BCCS	FPE/ 0.180	Quad	PVC/GRY/ 0.300	75	CL2R, CMR	21	Control Bus
B3132A	RG6	1/0.040/ 18/BCCS	FFEP/ 0.170	Quad	PVDF/GRY/ 0.274	75	CMP	36	Control Bus
B7503A	RG6	105/0.040/ 20/BC	FPE/ 0.185	95% TC French Braid	PVC/BLU/ 0.275	75	AWM	40	Belflex
B123092A	RG6	1/0.040/ 18/BCCS	PVC/BLK/ 0.600	Quad	PVC/BLK/ 0.600	75	CM	150	Aluminum Interlocked Armor
B183092A	RG6	1/0.040/ 18/BCCS	FPE/ 0.180	Quad	PVC/BLK/ 0.570	75	CL2, CM	154	Aluminum Corrugated Armor
B3092A	RG6	1/0.040/ 18/BCCS	FPE/ 0.180	Quad	PVC/BLK/ 0.298	75	CL2R, CMR	37	Modbus
B3092F	RG6	105/0.040/ 20/BC	FPE/ 0.183	Quad	PVC/BLK/ 0.303	75	CL2R, CMR	44	Modbus
B3093A	RG6	1/0.040/ 18/BCCS	FFEP/ 0.170	Quad	PVDF/BLK/ 0.274	75	CMP	40	Also In Blue
B7500A	SUB MINI	7/0.012/ 30/TCB	FPE/ 0.056	95% TC French Braid	PVC/BLU/ 0.110	75	-----	9	Belflex
B7501A	MINI	19/0.019/ 25/BC	FPE/ 0.090	95% TC French Braid	PVC/BLU/ 0.146	75	-----	14	Belflex
B8700	MINI	1/0.013/ 28/TC	PP/ 0.023	90% BC Braid	PVC/BLK/ 0.054	32	CM	3	-----
B89907	RG58	19/0.037/ 20/TC	FFEP/ 0.095	Foil + 93% TC Braid	PVDF/GRY/ 0.160	50	CMP, CL2P	24	10BASE-2
B82907	RG58	19/0.037/ 20/TC	FPFA/ 0.095	Foil + 93% TC Braid	FR-PVC/WHT/ 0.160	50	CMP, CL2P	24	10BASE-2
B9907	RG58	19/0.037/ 20/TC	FHDPE/ 0.102	Foil + 93% TC Braid	PVC/GRY/ 0.185	50	CM, CL2	25	10BASE-2
B89880	RG8	1/0.086/ 12/BC	FFEP/ 0.245	Quad	PVDF/ORG/ 0.375	50	CMP, CL2P	134	10BASE-5
B9880	RG8	1/0.086/ 12/BC	FPE/ 0.243	Quad	PVC/YEL/ 0.405	50	CM, CL2	131	10BASE-5

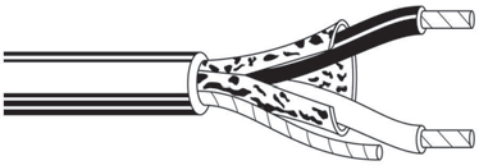
Legacy Industrial Data

DataBus and PROFIBUS Cables

BELDEN

APPLICATIONS

Industrial Automation Cables used in DataBus ISA/SP-50 FOUNDATION Fieldbus and PROFIBUS applications. These two-conductor cables are shielded and PLTC rated.



FOUNDATION FIELDBUS/PROFIBUS PA

Anixter No.	Description	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B3076F	1 pair, 18 AWG stranded tinned copper conductors. 100% Beldfoil shield. PO insulation, orange PVC jacket. NEC: ITC, PLTC, CM	0.292	48

FOUNDATION FIELDBUS

Anixter No.	Description	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B3077F	1 pair, 22 AWG stranded tinned copper conductors, 100% Beldfoil shield, PO insulation, orange PVC jacket, NEC: PLTC CM	0.196	23
B3078F	1 pair, 22 AWG stranded tinned copper conductors, 100% Beldfoil shield, FHDPE insulation, orange PVC jacket, NEC: PLTC, CM	0.351	47

PROFIBUS DP

Anixter No.	Description	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B3079A	1 pair, 22 AWG solid bare copper conductor, 65% TC braid + foil shield, FR-FPE insulation, chrome PVC jacket, NEC: PLTC, CMG	0.315	56
B3079E	1 pair, 22 AWG stranded bare copper conuctors, 65% TC braid + foil shield, FR-FPE insulation, purple PVC jacket, NEC: PLTC, CMG	0.315	44

Legacy Industrial Data

DeviceBus and DeviceNet Cables

BELDEN

APPLICATIONS

Industrial automation cables used for ODVA DeviceNet, Honeywell Smart Distributed System, Square D/Seriplex, and Phoenix Contact InterBus-S systems. All of these cables feature stranded conductors for increased flexibility. Two-pair constructions include one pair for data, and a larger gauge pair for power.

DEVICEBUS FOR ODVA DEVICENET

Anixter No.	Description	No. of Pairs	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B7897A	600 V, 2 pairs, overall 65% braid shield with individually foil shielded pairs, PVC/nylon (power pair) and FEP (data pair) insulation, gray sun- and oil-resistant PVC jacket, OVDA Class 1 Thick, NEC: TC-ER	(1) 15 AWG TC, (1) 18 AWG TC	0.460	132
B7896A	600 V, ODVA Cable V, 2 pairs, overall 65% braid shield with individual foil shielded pairs, PVC/nylon (power) and FR-PP (data) insulation, gray sun- and oil-resistant PVC jacket, NEC: TC-ER	(1) 16 AWG TC, (1) 18 AWG TC	0.525	165
B7900A	600 V, ODVA Cable V, 2 pairs, unshielded, PVC/nylon (power) and FR-PP (data) insulation, gray sun- and oil-resistant PVC jacket, NEC: TC-ER	(1) 16 AWG TC, (1) 18 AWG TC	0.430	102
B3082A	300 V, OVDA Class 2 Thick, 2 pairs, overall 65% braid shield with individually foil shielded pairs, PVC (power) and FPE (data) insulation, gray sun- and oil-resistant PVC jacket, NEC: CMG, PLTC-ER	(1) 15 AWG TC, (1) 18 AWG TC	0.480	135
B3082F	300 V, OVDA Class 2 Thick, high-flex, 2 pairs, overall 65% braid shield with individually foil shielded pairs, PVC (power) and FPE (data) insulation, gray sun- and oil-resistant PVC jacket, NEC: CMG, PLTC-ER	(1) 15 AWG TC, (1) 18 AWG TC	0.480	135
B3083A	300 V, OVDA Class 2 Thick, 2 pairs, overall 65% braid shield with individually foil shielded pairs, PVC (power) and FPE (data) insulation, yellow CPE jacket, NEC: CMG, PLTC	(1) 15 AWG TC, (1) 18 AWG TC	0.475	134
B3084A	300 V, OVDA Class 2 Thin, 2 pairs, overall 65% braid shield with individually foil shielded pairs, PVC (power) and FPE (data) insulation, gray sun- and oil-resistant jacket, NEC: CL2, CMG	(1) 22 AWG TC, (1) 24 AWG TC	0.280	47
B3084F	300 V, OVDA Class 2 Thin, high-flex, 2 pairs, overall 65% braid shield with individually foil shielded pairs, PVC (power) and FPE (data) insulation, gray sun- and oil-resistant PVC jacket, NEC: CL2, CMG	(1) 22 AWG TC, (1) 24 AWG TC	0.275	45
B3085A	300 V, OVDA Class 2 Thin, 2 pairs, overall 65% braid shield with individually foil shielded pairs, PVC (power) and FPE (data) insulation, yellow CPE jacket, NEC: CL2, CMG	(1) 22 AWG TC, (1) 24 AWG TC	0.280	47
B7895A	300 V, ODVA Cable III, 2 pairs, overall 65% braid shield with individually foil shielded pairs, PVC (power) and FPE (data) insulation, gray sun- and oil-resistant PVC jacket, NEC: CMG, PLTC	(1) 18 AWG TC, (1) 20 AWG TC	0.378	84

DEVICEBUS FOR HONEYWELL SMART DISTRIBUTED SYSTEM

Anixter No.	Description	No. of Pairs	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B3087A	Micro Cable (Drop), individually foil shielded pairs, PVC (power) and FPE (data) insulation, gray PVC jacket, NEC: CL2	(2) 22 AWG TC	0.290	41
B3086A	Mini Cable (Trunk), individually foil shielded pairs, PVC (power) and FPE (power) insulation, gray PVC jacket, NEC: CL2 (300 V, 80°C)	(1) 16 AWG TC, (1) 20 AWG TC	0.398	88

Continued on next page >>

Legacy Industrial Data

(continued) DeviceBus and DeviceNet Cables

DEVICEBUS FOR SQUARE D/SERIPLEX

Anixter No.	Description	No. of Pairs	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B3124A	2 pairs, overall Beldfoil shield, foam HDPE insulation, orange PVC jacket, 75°C, AWM Style 20201. NEC: CL2, CM. Seriplex CBL 162212-P16	(1) 18 AWG TC, (1) 22 AWG TC	0.308	47
B3125A	2 pairs, overall Beldfoil shield, foam HDPE insulation, orange PVC jacket, 75°C, NEC: CL2, CM. Seriplex CBL 162212-P16	(1) 16 AWG TC, (1) 22 AWG TC	0.368	63
B3126A	3 pairs (control, data, power), overall Beldfoil shield with drain wire, HDPE and PVC (power) insulation, orange PVC jacket, 75°C, NEC: CL2, CM. Seriplex CBL 162212-P16	(1) 16 AWG TC, (1) 22 AWG TC, (1) 12 AWG TC	0.486	112

DEVICEBUS FOR PHOENIX CONTACT INTERBUS-S

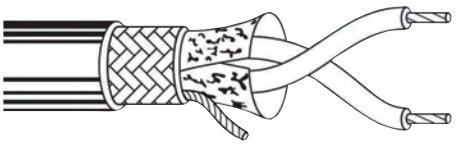
Anixter No.	Description	No. of Pairs	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B3120A	3 pairs, overall foil and 90% braid shield, PE insulation, green PUR jacket, AWM Style 20233 (300 V, 80°C)	(3) 24 AWG TC	0.277	49

EIA Industrial RS-485 PLTC/CM Cables

BELDEN

SPECIFICATIONS

1. CONDUCTOR: 22 AWG stranded tinned copper conductors
2. INSULATION: Foam high-density Polyethylene
3. JACKET: Black UV resistant PVC
4. SHIELDING: Overall Beldfoil and tinned copper braid shield (65% coverage)
5. NOMINAL IMPEDANCE: 120 ohms
6. NOM. VEL. OF PROP: 78%
7. NOM. CAP. (pF/ft.): 11.0
8. RATINGS: 300 V
9. UL APPROVALS: CM and PLTC



Anixter No.	No. of Pairs	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
B3105A	1	0.284	46
B3106A	1.5	0.300	47
B3107A	2	0.350	58
B3108A	3	0.414	81
B3109A	4	0.448	90

Industrial Fiber

Double Jacket, Heavy-duty Cable

BELDEN

Gel-filled buffer tube prevents water migration. Available with up to 216 fibers.

Available in four fiber types:

- OM1, 62.5/125 μm, Std/1 Gb
- OM2, 50/125 μm, Std/1 Gb
- OM3, 50/125 μm, 10 Gb - 300 m
- OS2, Single-mode enhanced

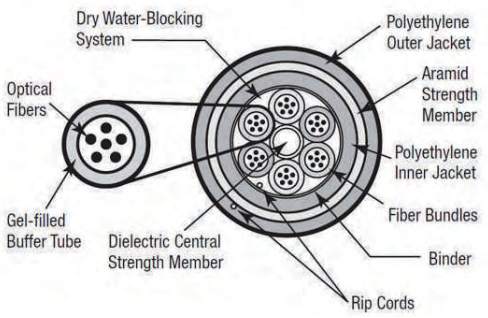
SPECIFICATIONS

1. Temperature Range: Storage: -40 to +75°C, Operating: -40 to +75°C
2. Min. Bend Radius: Installation - 20 x OD. Long Term - 15 x OD
3. Jacket: Inner Jacket: PE, Outer Jacket: PE

APPLICATIONS

Direct burial
Harsh environment
Applications requiring good ozone, moisture, and weather resistance

Fiber Bundle Detail



OS2 - SINGLE-MODE ENHANCED

Anixter No.	Vendor No.	No. of Fibers	Cable O.D. (in.)	Max. Tensile Load Installation (lb.)
372-BNTOS2-LTHD-06	B9W842	6	0.49	600
372-BNTOS2-LTHD-12	B9W844	12	0.49	600
372-BNTOS2-LTHD-24	B9W846	24	0.49	600
372-BNTOS2-LTHD-36	B9W847	36	0.49	600

OM3 - 50/125 μM - 10 GB - 300 M

Anixter No.	Vendor No.	No. of Fibers	Cable O.D. (in.)	Max. Tensile Load Installation (lb.)
372-BNTOM3-LTHD-06	B9C842	6	0.49	600
372-BNTOM3-LTHD-12	B9C844	12	0.49	600
372-BNTOM3-LTHD-24	B9C846	24	0.49	600
372-BNTOM3-LTHD-36	B9C847	36	0.49	600

Industrial Fiber

Interlocked Armor Distribution Cable - Tight Buffered

BELDEN

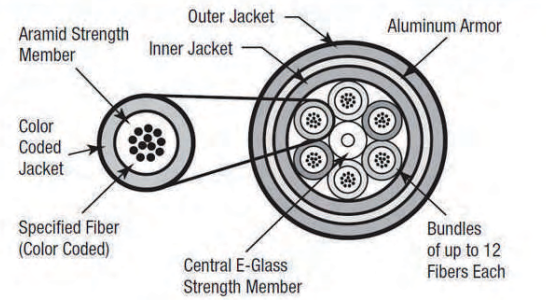
Heavy-duty construction with interlocking aluminum armor (steel available on request) provides excellent mechanical protection from cutting or crushing and eliminates need for innerduct. Rodent resistant. Also available for outside plant. Loose tube available on request.

Available in all fiber counts and types (OM1, 62.5/125 μm; OM2, 50/125 μm; OM3, 50/125 μm; 10G; OS2, Single-mode enhanced)

SPECIFICATIONS

1. Temperature Range: Storage: -40°C to +70°C, Operating: -20°C to +70°C
2. Crush Resistance: 2,000 N/cm
3. Impact Resistance: 2,000 impacts @ 3.0 N-m
4. Min. Bend Radius: Installation - 20 x OD. Long Term - 15 x OD
5. Jacket: PVC

Fiber Bundle Detail



APPLICATIONS

Industrial environments
Rugged installations
Manufacturing plants
Mining operations
Telecommunications and data trunk
Inter- and intra-building installations

RISER (NEC OFCR) - SINGLE-MODE ENHANCED

Anixter No.	Vendor No.	No. of Fibers	Cable O.D. (in.)	Max. Tensile Load Installation (lb.)
371-BNTOS2-TBAIRL-06	B9W230	6	0.570	286
371-BNTOS2-TBAIRL-12	B9W231	12	0.570	239
371-BNTOS2-TBAIRL-24	B9W232	24	0.670	641
371-BNTOS2-TBAIRL-36	B9W234	36	0.970	717

RISER (NEC OFCR) - OM3

Anixter No.	Vendor No.	No. of Fibers	Cable O.D. (in.)	Max. Tensile Load Installation (lb.)
371-BNTOM3-TBASJ-06	B9C230	6	0.570	286
371-BNTOM3-TBASJ-12	B9C231	12	0.570	239
371-BNTOM3-TBASJ-24	B9C232	24	0.670	641
371-BNTOM3-TBASJ-36	B9C234	36	0.970	717

PLENUM (NEC OFCP) - SINGLE-MODE ENHANCED

Anixter No.	Vendor No.	No. of Fibers	Cable O.D. (in.)	Max. Tensile Load Installation (lb.)
370-BEL8.3-TBAIRL-06	B9W240	6	0.570	286
370-BEL8.3-TBAIRL-12	B9W241	12	0.570	239
370-BEL8.3-TBAIRL-24	B9W242	24	0.670	641
370-BEL8.3-TBAIRL-36	B9W244	36	0.970	717

PLENUM (NEC OFCP) - OM3

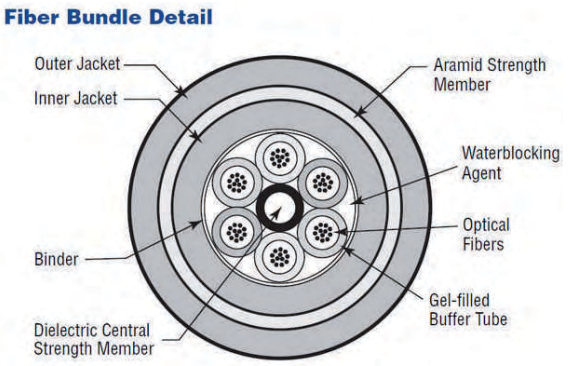
Anixter No.	Vendor No.	No. of Fibers	Cable O.D. (in.)	Max. Tensile Load Installation (lb.)
370-BNTOM3-TBA-06	B9C240	6	0.570	286
370-BNTOM3-TBA-12	B9C241	12	0.570	239
370-BNTOM3-TBA-24	B9C242	24	0.670	641
370-BNTOM3-TBASJ-36	B9C244	36	0.970	717

Industrial Fiber

TrayOptic Heavy-duty, All-dielectric Cable

BELDEN

Laser Optimized Fiber to handle Gigabit Ethernet light sources and expanded bandwidth requirements. Passes IEEE 383-2003 flame test. Water-blocking agent for moisture protection. CPE outer jacket option provides extra chemical or abrasion resistance. Other fiber counts are available - call your local sales office.



SPECIFICATIONS

1. Temperature Range: Storage: -40 to +70°C, Operating: -40 to +70°C
2. Crush Resistance: 2,000 N/cm
3. Impact Resistance: 2,000 impacts @ 1.6 N-m
4. Cyclic Flexing: 25 cycles, 12 lb., 20 x OD radius min.
5. Min. Bend Radius: Installation - 20 x OD. Long Term - 15 x OD
6. Max Installation Load: 600 lb. (2700 N)
7. Jacket: Orange CPE or PVC
8. Ratings: UL OFNR, C(UL) PFM FT.4
9. Fiber Type: OM1 (62.5/125 μm)

APPLICATIONS

Industrial and other harsh environment applications
Factory automation
Direct burial

PVC JACKET

Anixter No.	Vendor No.	No. of Fibers	Cable O.D. (in.)
BI100655	I100655	6	0.44
BI601255	I601255	12	0.44
BI602455	I602455	24	0.44

CPE JACKET

Anixter No.	Vendor No.	No. of Fibers	Cable O.D. (in.)
BI100666	I100666	6	0.44
BI601266	I601266	12	0.44
BI602466	I602466	24	0.44

Industrial Fiber

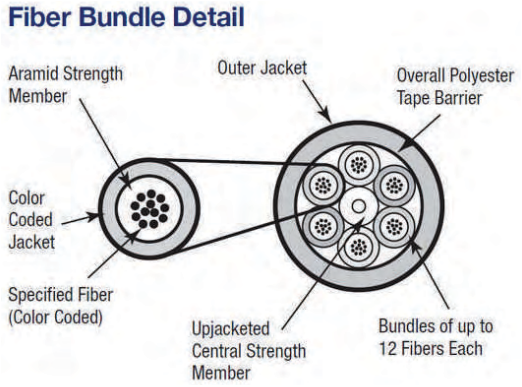
Distribution Cable - Tight Buffer - Indoor/Outdoor - Riser Rated

BELDEN

Flexible thermoplastic jacket provides excellent handling characteristics. Fibers and cable subunits are color-coded for easy identification. Length markings in meters for easy determination of cable length. Full dielectric construction, no grounding required. For riser offering, MSHA approved cables are available.

SPECIFICATIONS

1. Temperature Range: Storage: -40°C to +70°C; Operating: 0°C to +70°C
2. Min. Bend Radius: Installation 15 x OD. Long Term 10 x OD
3. Ratings: UL OFNR, C(UL) OFN FT.4, UL 1666
4. Jacket: PVC



APPLICATIONS

In-building backbone
Fiber-to-the-desk applications
Computer room

OS2 - SINGLE-MODE ENHANCED

Anixter No.	Vendor No.	No. of Fibers	Cable O.D. (in.)	Max. Tensile Load Installation (lb.)
371-BNTOS2-LTD-06	B9W039T	6	0.21	303
371-BNTOS2-LTD-12	B9W042T	12	0.24	303
371-BNTOS2-LTD-24	B9W601T	24	0.67	1,078
371-BNTOS2-LTD-36	B9W604T	36	0.67	1,348

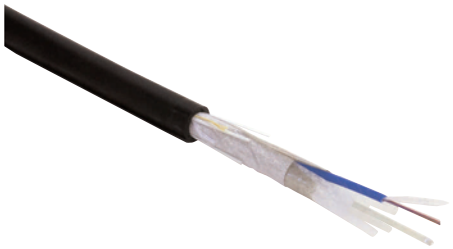
OM3 - 50/125 μM, 10 GB - 300 M

Anixter No.	Vendor No.	No. of Fibers	Cable O.D. (in.)	Max. Tensile Load Installation (lb.)
371-NDX150LTD-06	B9C039T	6	0.21	303
371-NDX150LTD-12	B9C042T	12	0.24	303
371-NDX150LTD-24	B9C601T	24	0.67	1,078
371-NDX150LTD-36	B9C604T	36	0.67	1,348

Industrial Fiber

Industrial Fiber Optic Cables LSZH Single-jacket, 12-288 Fibers

CORNING CABLE SYSTEMS



Corning Cable Systems LSZH Industrial Fiber Optic Cables are designed for industrial building backbones and harsh environments atypical of traditional datacom systems. Based on the proven stranded loose tube cable designs, these industrial cables are flame retardant and have been tested to meet mechanical/environmental conditions exceeding the requirements set for traditional datacom cables. They have also demonstrated superior performance levels when tested to specified "tray" application requirements for compressive loading, cyclic impact and chemical resistance. The 250 μm color-coded individual fibers offer quick and easy identification during installation, with 50 μm, 62.5 μm and single-mode versions available.

A key life-safety benefit of the Corning Cable Systems Industrial Cables is the low smoke zero halogen (LSZH) sheath. PVC cables commonly used in harsh environments contain halogens, namely chlorine, in the jacket compound. When these cables combust, they give off fumes containing highly reactive halogens that combine with water to form highly overactive acids. These acids damage both living tissue and inorganic materials like metal and electronic equipment. As such, these gases can be deadly if breathed by humans. Corning Cable Systems LSZH Industrial Cables eliminate that risk in the event of fire. In addition, the LSZH compound does not drip when superheated. The LSZH material burns to ash, eliminating the onset of secondary fires commonly caused by MDPE and PVC cables.

FEATURES

- Key life-safety benefit: low smoke zero halogen (LSZH) sheath
- Superior performance: meets cyclic impact and chemical resistance tests
- Proven design: based on stranded loose tube cable
- Meets burn test criteria: listed OFN-LS and CSA FT4-ST1
- Gel-filled: available in cold temperature version
- Available with MSHA (Mine Safety and Health Administration) approval

Technical Information & Standards

National Electrical Code (NEC) OFN-LS, CSA OFN FT4-ST1
Sunlight resistant (SUN RES)
IEEE-383 flame test, IEC 60332-3, IEC 60754-2, IEC 61034
Suitable for direct burial (DIR BUR)
ANSI/ICEA S-104-696; UL 13; UL 444; UL 1277; CSA C22 No. 230 and No. 232

APPLICATIONS

Outdoor aerial and duct; indoor general purpose horizontal according to NEC Article 770

62.5/125 MULTIMODE

Maximum attenuation: 3.4/1.0 dB/km (850/1300 nm); minimum LED: 200/500 MHz • km (850/1300 nm); effective modal bandwidth: 220 MHz • km (850 nm); serial Gigabit Ethernet distance: 300/550 m (850/1300 nm)

					Max. Tensile Load				Min. Bend Radius			
			Cable O.D.		Installation		Long Term.		Installation		Long Term.	
Anixter No.	Vendor No.	No. of Fibers	(in.)	(mm)	(lb.)	N	(lb.)	N	(in.)	(cm)	(in.)	(cm)
373-COR62-LTTRAY-24	024KUZ-T4130D2N	24	0.49	12.5	600	2700	180	810	7.4	18.8	4.9	12.5
373-COR62-LTTRAY-48	048KUZ-T4130D2N	48	0.49	12.5	600	2700	180	810	7.4	18.8	4.9	12.5
373-COR62-LTTRAY-72	072KUZ-T4130D2N	72	0.49	12.5	600	2700	180	810	7.4	18.8	4.9	12.5
373-COR62-LTTRAY-96	096KUZ-T4130D2N	96	0.60	15.3	600	2700	180	810	9.0	23.0	6.0	15.3
373-COR62-LTTRAY-144	144KUZ-T4130D2N	144	0.74	18.9	600	2700	180	810	11.2	28.4	7.4	18.9

Industrial Fiber

Mining and Petrochemical Fiber Optic Cables, 12-288 Fibers

CORNING CABLE SYSTEMS

Corning Cable Systems ALTOS LSZH cables are designed for indoor and outdoor use. The loose-tube cable construction, pioneered by Corning Cable Systems, places fibers in buffer tubes and provides stable and highly reliable transmission parameters for a variety of voice, data, video and imaging applications. The design also provides high fiber density within a given cable diameter while allowing flexibility to suit many system designs. The outer jacket uses a flame-retardant, non-halogenated material with UV and chemical resistance and low flame spread.

FEATURES

- Gel-free design means that there is no gel in the buffer tubes. The buffer tubes are fully water-blocked, making cable access simple and requiring no cleanup
- Available in 62.5 μm, 50 μm, single-mode, and hybrid versions
- Standard 2.5 mm buffer tube size reduces the number of access tools required
- SZ-stranded, loose-tube design isolates fibers from installation and environmental rigors and allows for easy midspan access
- Specially formulated black, flame-retardant, non-halogenated material with UV and chemical resistance and low flame spread
- All-dielectric construction
- Ideal for industrial and tunnel applications
- Available with interlocking armor
- IEEE-383 compliant, IEC 60332-3, IEC 60754-2
- Listed OFN-LS and CSA OFN FT4-ST1 up to 288 fibers
- Available with MSHA (Mine Safety and Health Administration) approval
- Available with Gigabit Ethernet performance

APPLICATIONS

Interbuilding backbones in aerial and duct environments
Horizontal intrabuilding and tunnel backbones where low smoke zero halogen requirements exist

62.5/125 MULTIMODE

Maximum attenuation: 3.4/1.0 dB/km (850/1300 nm); minimum LED: 200/500 MHz • km (850/1300 nm); effective modal bandwidth: 220 MHz • km (850 nm); serial Gigabit Ethernet distance: 300/550 m (850/1300 nm)

					Max. Tensile Load				Min. Bend Radius			
			Cable O.D.		Installation		Long Term.		Installation		Long Term.	
Anixter No.	Vendor No.	No. of Fibers	(in.)	(mm)	(lb.)	N	(lb.)	N	(in.)	(cm)	(in.)	(cm)
373-COR62-LTTRAYD-12	012KUL-T4630C2N	12	0.69	17.6	600	2700	180	810	10.4	26.4	6.9	14.0
373-COR62-LTTRAYD-24	024KUL-T4630C2N	24	0.69	17.6	600	2700	180	810	10.4	26.4	6.9	17.6
373-COR62-LTTRAYD-36	036KUL-T4630C2N	36	0.69	17.6	600	2700	180	810	10.4	26.4	6.9	17.6

Industrial Fiber

Industrial Fiber Optic Cables LSZH Corrugated Armored Cable, 12-288 Fibers

CORNING CABLE SYSTEMS

Corning Cable Systems LSZH Corrugated Armored Cable design is based on the proven stranded loose tube cable designs, these tray-rated industrial cables are flame-retardant and have been tested to meet mechanical/environmental conditions exceeding the requirements set for traditional datacom cables. When tested to specified "tray" application requirements, these cables have demonstrated superior performance levels for compressive loading, cyclic impact and chemical resistance. This ruggedized armored version offers additional mechanical protection and is also available in a gel-filled, cold temperature version. The 250 μm color-coded individual fibers offer quick and easy identification during installation, with 50 μm, 62.5 μm and single-mode versions available. A key benefit of the Corning Cable Systems Industrial Cables is the low smoke zero halogen (LSZH) sheath.

FEATURES

- Corrugated armor provides mechanical protection
- Meets cyclic impact and chemical resistance tests for superior performance
- Tray-rated per UL 13; UL 444; UL 1277; UL 1666; CSA C22.2 No. 230 and No. 232
- Listed OFCR-LS and CSA OFC FT4-ST1
- Tested to industrial ruggedness standards
- IEEE-383 compliant, IEC 60332-3, IEC 60754-2, IEC 61034
- Meets burn test criteria

APPLICATIONS

Designed for industrial building backbones and harsh environments atypical of traditional datacom systems

To order, contact your local sales representative.

Industrial Fiber Optic Cables LSZH Gel-Free Interlocking Armored Cable

CORNING CABLE SYSTEMS

When tested to specified "tray" application requirements, these cables have demonstrated superior performance levels for compressive loading, cyclic impact and chemical resistance. This gel-free interlocking armored version offers additional mechanical protection and is also available in a gel-filled, cold temperature version. The 250 μm color-coded individual fibers offer quick and easy identification during installation, with 50 μm, 62.5 μm and single-mode versions available. A key benefit of the Corning Cable Systems Industrial Cables is the low smoke zero halogen (LSZH) sheath.

FEATURES

- Interlocking armor provides mechanical protection
- Meets cyclic impact and chemical resistance tests for superior performance
- Listed OFC-LS and CSA OFC FT4-ST1
- IEEE-383 compliant, IEC 60332-3, IEC 60754-2, IEC 61034
- Tested to industrial ruggedness standards
- Meets burn test criteria

APPLICATIONS

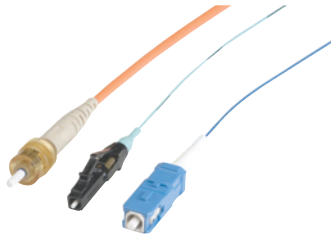
Designed for industrial building backbones and harsh environments atypical of traditional datacom systems

To order, contact your local sales representative.

Industrial Fiber

UniCam Pretium-Performance Connectors

CORNING CABLE SYSTEMS



Anixter No.	Vendor No.	Description
338903	95-050-41-X	50 µm LOMMF, ceramic ferrule, single pack
338912	95-050-51-X	50 µm LOMMF, ceramic ferrule, single pack
338911	95-050-99-X	50 µm LOMMF, ceramic ferrule, single pack
347845	TKT-UNICAM-PFC	UniCam Pretium Tool Kit

UniCam MTP Connectors

CORNING CABLE SYSTEMS

The Corning Cable Systems UniCam MTP Connector is the latest innovation in the proven UniCam Connector family. It is the first no-epoxy/no-polish, field-installable 12-fiber connector in the industry. It is the ideal solution for applications using 12-fiber ribbons. The UniCam MTP Connector utilizes the same reliable, proven, no-epoxy/no-polish technology as all other Corning Cable Systems UniCam Connectors. Unlike other field-installable connectors, the UniCam MTP Connector requires no polishing. The UniCam MTP Connector installs with the same push-pull reliability as the familiar SC connector.

SPECIFICATIONS

1. Insertion loss 0.5 dB average, 1.0 dB maximum
2. Reflectance -20 dB for MM, -65 dB for SM
3. Temperature cycling 0.3 dB change, -40° to +75°C; 21 cycles
4. Interconnect compatibility ANSI/TIA-604-5 (FOCIS)

FEATURES

- High-density termination replaces 12 single-fiber connectors
- Keyed for proper insertion
- Meets ANSI/TIA-604-5 (FOCIS)
- Color-coded, single-mode housings; 50 µm and 62.5 µm, multimode housings. All adapters are black
- Push-pull operation
- Alignment achieved with precision guide pins
- Terminates jacketed or bare 12-fiber ribbons in less than five minutes
- IEEE-802.3, Fibre Channel
- RoHS compliant product available

APPLICATIONS

Direct termination of ribbon cables
Repair of Plug & Play Universal Systems Solutions trunk cables
Parallel optical interconnects between servers

UNICAM MTP CONNECTORS

Anixter No.	Vendor No.	Description
327595	93-001-69	MM for 62.5 µm fiber, beige housing and black boot, no pins
327598	93-001-70	MM for 62.5 µm fiber, beige housing and black boot, with pins
251474	93-051-69	MM for 50 µm fiber, black housing and black boot, no pins
327597	93-051-69-X	MM for laser-optimized 50 µm fiber, black housing and aqua boot, no pins
327599	93-051-70	MM for 50 µm fiber, black housing and black boot, with pins
327600	93-051-70-X	MM for laser-optimized 50 µm fiber, black housing and aqua boot, with pins
327601	93-201-69	SM fiber, green housing and green boot, no pins
327602	93-201-70	SM fiber, green housing and green boot, with pins

UNICAM MTP CONNECTOR INSTALLATION TOOL KIT

Anixter No.	Vendor No.	Description
305588	TKT-UNICAM-MTP	UniCam MTP Connector Installation Tool Kit

Industrial Fiber

UniCam Pretium-Performance Multimode Connectors
LC, SC, ST Compatible

CORNING CABLE SYSTEMS

With UniCam Pretium-Performance Multimode Connectors, best-in-class optical performance is available in a fast, easy field-termination solution. These patented, high-precision, ceramic ferrule, multimode connectors guarantee a 0.1 dB-typical/ 0.5 dB-maximum insertion loss per connector pair for exceptional network performance. And with the UniCam Pretium Tool Kit, an LC, SC or ST Compatible connector can easily be installed in about 45 seconds. The lightweight, handheld installation tool and the high-performance cleaver virtually eliminate human variability from installation, ensuring terminations are performed right, the first time, every time. From the cleaver, with its integrated fiber scrap bin and dual-clamp precision hold, to the installation tool, with its immediate go/no-go feedback signal, the UniCam Pretium Tool Kit was thoughtfully designed with the needs of network installers in mind. Installation is as easy as strip, clean, cleave, cam and crimp, with exceptional optical performance guaranteed. Every UniCam Connector is 100 percent guaranteed to meet the published specification at the time of installation, or Corning Cable Systems will replace it.

FEATURES

- Typical insertion loss of 0.1 dB and maximum insertion loss of 0.5 dB for best-in-class optical performance
- Broad operating temperature range (-40° to +75°C) for true utility and flexibility
- The UniCam Pretium Tool Kit virtually eliminates human variability in installation, ensuring consistent, reliable results
- Pretium performance can be achieved with the UniCam Pretium Tool Kit or the standard UniCam Connector Tool Kit
- Available in single packs for installation on 3 mm, 2 mm, 1.6 mm and 900 micron cable
- UniCam Connector organizer packs are available for installation on 900 micron only. Organizer pack includes connector assembly and 900 micron boot only
- Fast-termination, high-installation yields and no consumables means lowest installed cost
- Factory-polished end-face for consistent optical performance and factory quality
- 100 percent factory tested for insertion loss
- 100 percent guaranteed (UniCam Connectors are guaranteed to meet the published specifications at the time of installation)
- Direct, 250 µm termination SC and LC connectors available
- Reliable, proven technology, with more than 40 million sold

APPLICATIONS

Main cross-connect, intermediate cross-connect, horizontal cross-connect
Ideal for fiber-to-the-workstation applications where installation setup and teardown times are critical
Anywhere low-loss connectivity is critical
Data centers

LC CONNECTORS

UniCam Pretium-performance LC Connectors with ceramic ferrule and logo. Organizer packs are packs of 25 unassembled UniCam Connectors separated into components.

Anixter No.	Vendor No.	Description
338911	95-050-99-X	50 µm LOMMF, ceramic ferrule, single pack
348025	95-050-99-X-Z	50 µm LOMMF, ceramic ferrule, organizer pack, 25/pk, connector assembly and 900 micron boot only
338910	95-050-99	50 µm, ceramic ferrule, single pack
348026	95-050-99-Z	50 µm, ceramic ferrule, organizer pack, 25/pk, connector assembly and 900 micron boot only
338909	95-000-99	62.5 µm, ceramic ferrule, single pack
348027	95-000-99-Z	62.5 µm, ceramic ferrule, organizer pack, 25/pk, connector assembly and 900 micron boot only

SC CONNECTORS

UniCam Pretium-performance SC Connectors with ceramic ferrule and logo. Organizer packs are packs of 25 unassembled UniCam Connectors separated into components.

Anixter No.	Vendor No.	Description
338903	95-050-41-X	50 µm LOMMF, ceramic ferrule, single pack
347923	95-050-41-X-Z	50 µm LOMMF, ceramic ferrule, organizer pack, 25/pk, connector assembly and 900 micron boot only
338904	95-050-41	50 µm, ceramic ferrule, single pack
347920	95-050-41-Z	50 µm, ceramic ferrule, organizer pack, 25/pk, connector assembly and 900 micron boot only
338894	95-000-41	62.5 µm, ceramic ferrule, single pack
347919	95-000-41-Z	62.5 µm, ceramic ferrule, organizer pack, 25/pk, connector assembly and 900 micron boot only

ST COMPATIBLE CONNECTORS

UniCam Pretium-performance ST Compatible Connectors with ceramic ferrule and logo. Organizer packs are packs of 25 unassembled UniCam Connectors separated into components.

Anixter No.	Vendor No.	Description
338912	95-050-51-X	50 µm LOMMF, ceramic ferrule, single pack
347924	95-050-51-X-Z	50 µm LOMMF, ceramic ferrule, organizer pack, 25/pk, connector assembly and 900 micron boot only
338901	95-050-51	50 µm, ceramic ferrule, single pack
347925	95-050-51-Z	50 µm, ceramic ferrule, organizer pack, 25/pk, connector assembly and 900 micron boot only
338897	95-000-51	62.5 µm, ceramic ferrule, single pack
347926	95-000-51-Z	62.5 µm, ceramic ferrule, organizer pack, 25/pk, connector assembly and 900 micron boot only

UNICAM INSTALLATION TOOL KIT

Anixter No.	Vendor No.	Description
347845	TKT-UNICAM-PFC	UniCam Pretium Tool Kit

Industrial Fiber

UniCam High-performance Single-mode Connectors
LC, SC, ST Compatible

CORNING CABLE SYSTEMS

With UniCam high-performance single-mode connectors, best-in-class optical performance is available in a fast, easy, field-termination solution for single-mode fibers. These patented, high-precision, ceramic ferrule LC, SC and ST Compatible single-mode connectors offer Pretium performance capability - an outstanding 0.2 dB typical/0.5 dB maximum insertion loss per connector pair when installed with the UniCam Pretium Tool Kit. This lightweight, handheld installation tool and the high-performance cleaver virtually eliminate human variability from installation, for terminations that are performed right, the first time, every time. The result: the superior optical performance that you require for your most demanding single-mode applications.

While UniCam high-performance single-mode connectors are compatible with the standard UniCam Connectors Tool Kit, the true high-performance capability of these connectors can only be guaranteed with the UniCam Pretium Tool Kit.

The UniCam Pretium Tool Kit can quickly install a UniCam Connector in about 45 seconds. From the cleaver, with its integrated fiber scrap bin and dual-clamp precision hold, to the installation tool with its immediate go/no-go feedback signal, the UniCam Pretium Tool Kit was thoughtfully designed with the needs of network installers in mind.

Installation is as easy as strip, clean, cleave, cam and crimp - with exceptional optical performance guaranteed. Every UniCam Connector is 100 percent guaranteed to meet the published specification at the time of installation, or Corning Cable Systems will replace it.

SPECIFICATIONS

1. Typical insertion loss: 0.2 dB
2. Maximum insertion loss: 0.5 dB
3. Reflectance (dB): PC -55

FEATURES

- Typical insertion loss of 0.2 dB and maximum insertion loss of 0.5 dB for best-in-class optical performance, when installed using the UniCam Pretium Tool Kit
- Broad operating temperature range (-40° to +75°C) for true utility and flexibility, when installed using the UniCam Pretium Tool Kit
- The UniCam Pretium Tool Kit virtually eliminates human variability in installation, ensuring consistent, reliable results
- Available in single packs for installation on 3 mm, 2 mm, 1.6 mm and 900 micron cable
- The UniCam Connector organizer packs for installation on 900 micron only. Organizer pack includes connector assembly and 900 micron boot only
- Fast-termination, high-installation yields and no consumables mean lowest installed cost
- Factory-polished end-face for consistent optical performance and factory quality
- 100 percent factory tested for insertion loss
- 100 percent guaranteed (UniCam Connectors are guaranteed to meet the published specification at the time of installation)

APPLICATIONS

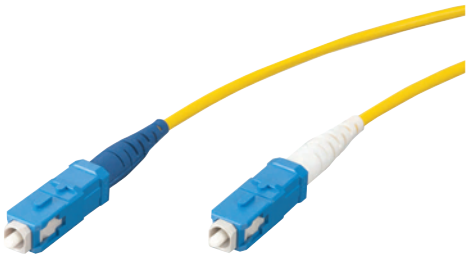
Local area networks, including main cross-connect, intermediate cross-connect, horizontal cross-connect
Ideal for fiber-to-the-workstation applications where installation setup and tear-down times are critical
Anywhere low-loss connectivity is critical
Data centers

LC CONNECTORS

Organizer packs are packs of 25 unassembled UniCam Connectors separated into components.

Anixter No.	Vendor No.	Description
338908	95-200-99	Single-mode, ceramic ferrule, single pack
347927	95-200-99-Z	Single-mode, ceramic ferrule, organizer pack, connector assembly and 900 micron boot only

SC CONNECTORS



Anixter No.	Vendor No.	Description
338895	95-200-41	Single-mode, ceramic ferrule, single pack
347928	95-200-41-Z	Single-mode, ceramic ferrule, organizer pack, connector assembly and 900 micron boot only
360136	95-200-44	APC polish, ceramic ferrule, single pack
374610	95-200-44-Z	APC polish, ceramic ferrule, organizer pack, connector assembly and 900 micron boot only

ST COMPATIBLE CONNECTORS

Anixter No.	Vendor No.	Description
338899	95-200-51	Single-mode, ceramic ferrule, single pack
347930	95-200-51-Z	Single-mode, ceramic ferrule, organizer pack, connector assembly and 900 micron boot only

UNICAM CONNECTOR INSTALLATION TOOL KIT

Anixter No.	Vendor No.	Description
347845	TKT-UNICAM-PFC	UniCam Pretium Tool Kit

Industrial Fiber

UniCam Connector Installation Tool Kits

CORNING CABLE SYSTEMS

Corning Cable Systems offers several tool kits for installation of UniCam Connectors. The flagship tool kit is the UniCam Pretium Tool Kit (TKT-UNICAM-PFC), a thoughtfully designed tool kit that virtually eliminates human variability from installation. The TKT-UNICAM-PFC includes a lightweight, hand-held installation tool with an immediate go/no-go feedback signal, providing unmistakable confirmation of a successful termination. The kit's high-performance cleaver has an integrated fiber scrap bin and a dual-clamp precision hold for the field fiber, with a diamond blade to achieve a superior cleave. The UniCam Pretium Tool Kit can be used with multimode or single-mode LC, SC and ST Compatible UniCam Connectors (standard and Pretium-performance), and is required to achieve Pretium-performance specifications for UniCam Pretium-performance Single-mode Connectors.

The standard UniCam Connector Installation Tool Kit (TKT-UNICAM) is a basic installation tool kit and can be used to terminate all single- and two-fiber UniCam Connector styles (SC, LC and ST Compatible connectors). UniCam Pretium-performance Multimode Connectors (SC, LC and ST Compatible connectors) can achieve Pretium-performance with the use of this tool.

The TEST-UNICAM-CTS converts an existing TKT-UNICAM Kit to add the CTS option to provide visual feedback when terminating UniCam SC, LC, ST Compatible Connectors. Useful for reducing scrap rates or training new installers, the TEST-UNICAM-CTS is very popular, since the installer can watch for the red glow in the back of the connector to dim or disappear. This indicates that the fiber is properly inserted into the connector.

Finally, the UniCam MTP Connector Installation Tool Kit (TKT-UNICAM-MTP) is designed for quick termination of ribbon cables using the UniCam MTP Connector. Conveniently packaged in an easy-to-carry hard case, the tool kit is compact and easy to carry around the job site. The UniCam MTP Connector is a single-ferrule design that terminates 12 fibers at a time in one connector.

The installation tool kit for this connector contains a high-performance ribbon cleaver for superior cleave performance. Also included in the kit is a ribbon-coating thermal stripper, ribbon insertion tool, crimp tool and fiber preparation and cleaning materials.

UniCam Pretium Tool Kit (TKT-UNICAM-PFC)

- Virtually eliminates human variability in installation, ensuring consistent, reliable results
- UniCam Pretium Installation Tool uses a go/no-go LED to provide unmistakable confirmation of a successful termination
- Pretium Flat Cleaver uses dual-clamp precision and a diamond blade for a superior cleave
- About 45 seconds per connector to install
- Sleek, well-organized carrying case with built-in conveniences for easy, on-the-go field terminations
- Tool kit designed to allow work out of the bag, eliminating set-up and tear-down time
- One kit terminates both single-mode and multimode LC, SC and ST Compatible connectors

Standard UniCam Connector Installation Tool Kit (TKT-UNICAM)

- Convenient carrying bag contains all of the components necessary to terminate UniCam Connectors
- Installs SC, LC and ST Compatible connectors in less than a minute
- One kit terminates both single-mode and multimode UniCam Connectors

UniCam MTP Connector Installation Tool Kit (TKT-UNICAM-MTP)

- Convenient padded hard-side carrying case
- One kit terminates both single-mode and multimode UniCam MTP Connectors

APPLICATIONS

UniCam Connector installations
Local area networks (LANs), including main cross-connect, telecommunications room and telecommunications enclosures
Fiber-to-the-desk
Data centers

UNICAM PRETIUM TOOL KIT

The TKT-UNICAM-PFC includes a lightweight, hand-held installation tool with an immediate go/no-go feedback signal, providing unmistakable confirmation of a successful termination. The kit's high-performance cleaver has an integrated fiber scrap bin and a dual-clamp precision hold for the field fiber, with a diamond blade to achieve a superior cleave. The UniCam Pretium Tool Kit can be used with multimode or single-mode LC, SC and ST Compatible UniCam Connectors (standard and Pretium-performance), and is required to achieve Pretium-performance specifications for UniCam Pretium-performance Single-mode Connectors.

Anixter No.	Vendor No.	Description
347845	TKT-UNICAM-PFC	UniCam Pretium Tool Kit

TKT-UNICAM-PFC ACCESSORIES

Anixter No.	Vendor No.	Description
347846	FBC-015	UniCam Pretium cleaver with diamond blade
347972	TLC-UCP	UniCam Pretium Installation Tool
348034	FCC-WIPES	Package of Corning wipes, 90 pcs/pk.
348035	FCC-CLEANER-FIBER	Bottle of Corning fiber optic cleaning fluid
347849	VFL-A125	LC 1.25 mm VFL ferrule adapter
347855	VFL-A250	SC and ST Compatible 2.50 mm VFL ferrule adapter
347852	VFL-AKIT	LC 1.25 mm and SC and ST Compatible 2.50 mm VFL ferrule adapters
391035	CLEANER-PORT-2.5	Single-Fiber Port Cleaner for all 2.5 mm ferrule connectors such as FC, ST and SC; effective for PC, UPC and APC polishes
391036	CLEANER-PORT-LC	Single-Fiber Port Cleaner for LC, keyed LC and MU for both UPC and APC polishes

Continued on next page > >

Industrial Fiber

(continued) UniCam Connector Installation Tool Kits

STANDARD UNICAM CONNECTOR INSTALLATION TOOL KIT

Basic installation kit for single-fiber UniCam Connectors, terminates single-fiber ST Compatible, SC and LC connectors; includes FBC-001 Score and Snap cleaver. Components for single-fiber Continuity Test Set (CTS) applications and visual fault locator (VFL) not included; includes all required fiber preparation and cleaning tools and materials.

Anixter No.	Vendor No.	Description
170006	TKT-UNICAM	Standard UniCam connector installation kit

TKT-UNICAM ACCESSORIES

Anixter No.	Vendor No.	Description
086541	FBC-001	Fiber cleaver, score and snap
223817	TEST-UNICAM-CTS	Converts an existing TKT-UNICAM kit to add the CTS option; contains splitter box, SC, ST Compatible, LC and MT-RJ CTS adapters and jumpers
249987	TER-CTS-SC	CTS adapter for UniCam SC connectors
249994	TER-CTS-ST	CTS adapter for UniCam ST-compatible connectors
264278	TER-CTS-LC	CTS adapter for UniCam LC connectors
251702	VFL-350	Visual fault locator, 635 nm penlight style
234819	CLEANER-UNIV-CASS	Universal connector cleaning cassette
391035	CLEANER-PORT-2.5	Single-Fiber Port Cleaner for all 2.5 mm ferrule connectors such as FC, ST and SC; effective for PC, UPC and APC polishes
391036	CLEANER-PORT-LC	Single-Fiber Port Cleaner for LC, keyed LC and MU for both UPC and APC polishes

UNICAM MTP CONNECTOR TERMINATION KIT

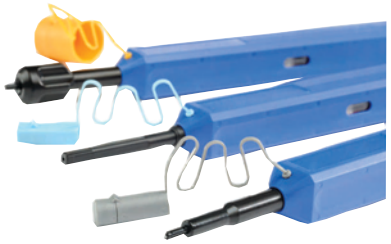
The UniCam MTP Connector Installation Tool Kit (TKT-UNICAM-MTP) is designed for quick termination of ribbon cables using the UniCam MTP Connector. Conveniently packaged in an easy-to-carry hard case, the tool kit is compact and easy to carry around the job site. The UniCam MTP Connector is a single-ferrule design that terminates 12 fibers at a time in one connector. The installation tool kit for this connector contains a high-performance ribbon cleaver for superior cleave performance. Also included in the kit is a ribbon-coating thermal stripper, ribbon insertion tool, crimp tool and fiber preparation and cleaning materials.

Anixter No.	Vendor No.	Description
305588	TKT-UNICAM-MTP	UniCam MTP Connector Installation Tool Kit

Industrial Fiber

Single-Fiber Port Cleaners

CORNING CABLE SYSTEMS



Single-Fiber Port Cleaners are designed to clean connector end-faces in patch panels and adapters. An integrated dust cap allows for cleaning unmated connector end-faces. Single-fiber port cleaners are proven effective for removing the following from connector end-faces: skin oil, hand lotion, Arizona road dust, pre- and post-mate graphite, salt, isopropyl and distilled water residues. These cleaners are simple to use and offer over 525 cleanings.

FEATURES

- Cleaning system rotates 180 degrees to provide a full cleaning of the connector end-face
- Extendable tip allows for cleaning in hard-to-reach spaces
- Cleaning fibers dissipate static to alleviate any electrostatic discharge concerns
- Easy-to-use pushing motion engages connector and initiates connector end-face cleaning

Anixter No.	Vendor No.	Description
391035	CLEANER-PORT-2.5	Single-Fiber Port Cleaner for all 2.5 mm ferrule connectors such as FC, ST and SC; effective for PC, UPC and APC polishes
391036	CLEANER-PORT-LC	Single-Fiber Port Cleaner for LC, keyed LC and MU for both UPC and APC polishes
391040	CLEANER-PORT-OTAP	Single-Fiber Port Cleaner for OptiTap Connector end-faces

Connector Removal Tool

CORNING CABLE SYSTEMS

Corning Cable Systems Connector Removal Tool (CRT-001) is designed to allow for easy removal and insertion of SC and small-form-factor connectors in high-density patch panels. Comes with an integrated flashlight to enable visibility in densely populated enclosures and low-light situations. Designed for comfortable one-handed operation, it features long, narrow jaws with universal tips that make connector insertion and removal easy, even in high-density patch panels.

FEATURES

- Integrated flashlight for increased visibility in dark patch panels
- Comfortable design makes it easy for small or large hands to use
- Long, narrow jaws smooth connector insertion and removal
- Contoured notch on one side of tip ensures proper latching

Anixter No.	Vendor No.	Description
333600	CRT-001	Connector Removal Tool with integrated flashlight and two standard AAA batteries

Industrial Fiber

Closet Connector Housing Panels (CCH-CP)

CORNING CABLE SYSTEMS

Closet Connector Housing Panels are offered in 6-, 8-, 12-, 16- and 24-fiber panels for use with the LANscape Solutions hardware products. The panels are used with field-installable connectors or in applications where the preconnectorized cables are routed directly from the equipment to the interconnect hardware.

The panels are available with a variety of industry-standard adapter types. In most applications, the Closet Connector Housing Panels are designed for applications where specified labeling and connector identification are required. This is accomplished by the use of colored icons with different symbols molded into the icon.

FEATURES

- Designed to accommodate all industry-standard adapter types
- Unique color-coded connector labeling system
- Universal approach is used; one panel size fits in all standard LANscape Solutions hardware
- Available in 6-, 8- and 12-fiber-count options in most adapter styles; 16- and 24-fiber-count options available in MT-RJ and LC duplex styles

APPLICATIONS

The panels are used with field-installable connectors or in applications where the preconnectorized cables are routed directly from the equipment to the piece of interconnect hardware

Provides an efficient way to securely mate two or more connectors

6-FIBER CLOSET CONNECTOR HOUSING PANELS: FC ADAPTER

Anixter No.	Vendor No.	Description
180681	CCH-CP06-11	Six Corning Cable Systems universal adapter holders with FC, single-mode
214235	CCH-CP06-21	Six FC, angle polish, single-mode adapters with metal inserts, metal housings

6-FIBER CLOSET CONNECTOR HOUSING PANELS: SC ADAPTER (SIMPLEX)

Anixter No.	Vendor No.	Description
227053	CCH-CP06-3C	Single-mode, ceramic insert, composite housing
269782	CCH-CP06-6C	Angle polish, single-mode, ceramic insert, composite housing
180704	CCH-CP06-56	Multimode 62.5 µm, composite insert, composite housing

6-FIBER CLOSET CONNECTOR HOUSING PANELS: SC ADAPTER (DUPLEX)

Anixter No.	Vendor No.	Description
180435	CCH-CP06-59	Single-mode, ceramic insert, composite housing
180705	CCH-CP06-91	Multimode 62.5 µm, composite insert, composite housing
250694	CCH-CP06-G7	Standard 50 µm multimode, ceramic insert, composite housing
269475	CCH-CP06-E7	Laser-optimized 50 µm multimode, ceramic insert, composite housing

6-FIBER CLOSET CONNECTOR HOUSING PANELS: LC ADAPTER (DUPLEX)

Anixter No.	Vendor No.	Description
276744	CCH-CP06-A8	Multimode 62.5/125 adapters, ceramic insert, composite housing
343164	CCH-CP06-A9	Single-mode, ceramic insert, composite housing

6-FIBER CLOSET CONNECTOR HOUSING PANELS: MT-RJ ADAPTER

Anixter No.	Vendor No.	Description
203717	CCH-CP06-97	Multimode 62.5 µm
203723	CCH-CP06-98	Single-mode

8-FIBER CLOSET CONNECTOR HOUSING PANELS: SC ADAPTER (SIMPLEX)

Anixter No.	Vendor No.	Description
180718	CCH-CP08-39	Multimode 62.5 µm, metal insert, composite housing
180719	CCH-CP08-56	Multimode 62.5 µm, composite insert, composite housing

8-FIBER CLOSET CONNECTOR HOUSING PANELS: ST COMPATIBLE ADAPTER

Anixter No.	Vendor No.	Description
180714	CCH-CP08-15T	Threaded bulkhead, multimode 62.5 µm, ceramic insert, composite housing
180715	CCH-CP08-19T	Threaded bulkhead, single-mode, ceramic insert, composite housing
180716	CCH-CP08-25T	Threaded bulkhead, multimode 62.5 µm, composite insert, composite housing

8-FIBER CLOSET CONNECTOR HOUSING PANELS: SC ADAPTER (DUPLEX)

Anixter No.	Vendor No.	Description
180463	CCH-CP08-59	Single-mode, ceramic insert, composite housing
180720	CCH-CP08-91	Multimode 62.5 µm, composite insert, composite housing

12-FIBER CLOSET CONNECTOR HOUSING PANELS: SC ADAPTERS (SIMPLEX)

Anixter No.	Vendor No.	Description
278933	CCH-CP12-3C	Single-mode, ceramic insert, composite housing
271108	CCH-CP12-6C	Angle polish, single-mode, ceramic insert, composite housing
269695	CCH-CP12-56	Multimode 62.5 µm, composite insert, composite housing

12-FIBER CLOSET CONNECTOR HOUSING PANELS: 6 SC ADAPTERS (DUPLEX)

Anixter No.	Vendor No.	Description
180728	CCH-CP12-59	Single-mode, ceramic insert, composite housing
180729	CCH-CP12-91	Multimode 62.5 µm, composite insert, composite housing

Industrial Fiber

Anixter No.	Vendor No.	Description
250688	CCH-CP12-G7	Standard 50 µm multimode, ceramic insert, composite housing
255257	CCH-CP12-E7	Laser-optimized 50 µm multimode, ceramic insert, composite housing

12-FIBER CLOSET CONNECTOR HOUSING PANELS: ST COMPATIBLE ADAPTER

Anixter No.	Vendor No.	Description
207402	CCH-CP12-15T	Threaded bulkhead adapters, multimode 62.5 µm, ceramic insert, composite housing
207404	CCH-CP12-19T	Threaded bulkhead adapters, single-mode, ceramic insert, composite housing
207403	CCH-CP12-25T	Threaded bulkhead adapters, multimode 62.5 µm, composite insert, composite housing
309517	CCH-CP12-G5	Standard 50 µm multimode, ceramic insert, composite housing

12-FIBER CLOSET CONNECTOR HOUSING PANELS: 6 LC ADAPTERS (DUPLEX)

Anixter No.	Vendor No.	Description
242101	CCH-CP12-A7	Multimode 62.5 µm, metal insert, composite housing
272046	CCH-CP12-A8	Multimode 62.5 µm, ceramic insert, composite housing
242436	CCH-CP12-A9	Single-mode, ceramic insert, composite housing
250692	CCH-CP12-D3	Standard 50 µm multimode, ceramic insert, composite housing
272048	CCH-CP12-E4	Laser-optimized 50 µm multimode, ceramic insert, composite housing

12-FIBER CLOSET CONNECTOR HOUSING PANELS: 6 MT-RJ ADAPTERS

Anixter No.	Vendor No.	Description
203720	CCH-CP12-97	Multimode 62.5 µm
206354	CCH-CP12-98	Single-mode
250691	CCH-CP12-G1	Standard 50 µm multimode, composite housing
278931	CCH-CP12-E1	Laser-optimized 50 µm multimode, composite housing

24-FIBER CLOSET CONNECTOR HOUSING PANELS: 12 MT-RJ ADAPTERS

Anixter No.	Vendor No.	Description
203722	CCH-CP24-97	Multimode 62.5 µm
203727	CCH-CP24-98	Single-mode
255254	CCH-CP24-E1	Laser-optimized 50 µm multimode, composite housing

24-FIBER CLOSET CONNECTOR HOUSING PANELS: 12 LC ADAPTERS (DUPLEX)

Anixter No.	Vendor No.	Description
252145	CCH-CP24-A7	Multimode 62.5 µm, metal insert, composite housing
267889	CCH-CP24-A8	Multimode 62.5 µm, ceramic insert, composite housing
252146	CCH-CP24-A9	Single-mode, ceramic insert, composite housing
265058	CCH-CP24-D3	Standard 50 µm multimode, ceramic insert, composite housing
255256	CCH-CP24-E4	Laser-optimized 50 µm multimode, ceramic insert, composite housing

MTP CONNECTOR PANELS

Anixter No.	Vendor No.	Description
319325	CCH-CP72-E3	72-fiber standard 50 µm multimode, ceramic insert, composite housing
367549	CCH-CPE4-E3	144-fiber standard 50 µm multimode, ceramic insert, composite housing
349511	CCH-CPE4-G3	144-fiber laser-optimized 50 µm multimode, ceramic insert, composite housing

6-FIBER CLOSET CONNECTOR HOUSING PANELS: ST COMPATIBLE ADAPTER

Anixter No.	Vendor No.	Description
314850	CCH-CP06-G5	Standard 50 µm multimode, ceramic insert, composite housing
180699	CCH-CP06-19T	Threaded bulkhead, single-mode, ceramic insert, composite housing
317729	CCH-CP06-E5	Laser-optimized 50 µm multimode, ceramic insert, composite housing
180701	CCH-CP06-25T	Threaded bulkhead, multimode 62.5 µm, composite insert, composite housing

Q: Will the connector panels fit both the wall-mount and rack-mount LANscape housings?

A: Yes, trying to remember which panels work with which housings can be very confusing. That is why all Corning LANscape connector panels are interchangeable.

Industrial Fiber

Industrial Connector Housing (ICH)

CORNING CABLE SYSTEMS

The Corning Cable Systems Industrial Connector Housing (ICH) family is ideal for manufacturing and industrial applications. The housings are fabricated from aluminum with a baked-on, black powder-coated finish. The ICH may be used indoors or out. It is designed to accommodate conduit with the provided concentric knockouts and accepts standard CCH connector panels and connector modules. Splicing is accomplished with the splice tray holding kit, which may be ordered separately.

The units have a padlockable outer door and a separate inner door that protects the provider side of the unit from unauthorized access. The inner door may also be locked by using an optional key lock kit. Carrying a NEMA 250-1997 3S rating, the ICH is perfect for protecting the network infrastructure in industrial environments.

FEATURES

- NEMA 250-1997 3S rated
- UL Listed to U.S. and Canadian safety standards
- Aluminum construction
- Tough, baked-on, smooth black powder-coated finish
- Accommodates conduit fittings
- Accepts standard CCH connector panels and modules
- Routing guides and cable strain-relief provisions included
- Gasketed hinged cover
- Keyhole mounting holes for fast installation
- Solid welded construction
- Supplied with blank CCH connector panels
- Grounding stud and bus bar included
- Padlockable with user-supplied padlock
- Inner door lockable with optional lock kit
- UCC cable clamp included
- Splicing available with optional splice kit
- As with all Corning Cable Systems housings, all of the accessories required to properly install the housing are included

APPLICATIONS

Manufacturing and industrial networks
High fiber count to the work area or machine cell
Optical fiber connectivity where a telecommunications room is not available
Machine communications and process control
Building automation systems

INDUSTRIAL CONNECTOR HOUSING (ICH)

Anixter No.	Vendor No.	Description
250825	ICH-02P	Accepts two CCH connector panels or modules; supplied with blank panels and one UCC clamp kit
250826	ICH-06P	Accepts six CCH connector panels or modules; supplied with blank panels and one UCC clamp kit
250827	ICH-12P	Accepts 12 CCH connector panels or modules; supplied with blank panels and one UCC clamp kit

ACCESSORIES

Anixter No.	Vendor No.	Description
185322	HDWR-LOCK-KIT	Lock kit for front door of housing; contains one lock with two keys
263462	FDC-CABLE-GRND	Armored cable grounding kit; contains one armored grounding clip and one ground strap
312958	ICH-SPLC-2	Splice tray holder kit for ICH-02P; contains tray bracket and retaining strap; accommodates four Type 2R or two Type 4R splice trays
312959	ICH-SPLC-6	Splice tray holder kit for ICH-02P; contains tray bracket and retaining strap; accommodates six Type 2R or three Type 4R splice trays
312960	ICH-SPLC-12	Splice tray holder kit for ICH-02P; contains tray bracket and retaining strap; accommodates 12 Type 2R or six Type 4R splice trays

Industrial Fiber

Industrial Splice Housing (ISH)

CORNING CABLE SYSTEMS

The Corning Cable Systems Industrial Splice Housing (ISH) is ideal for manufacturing and industrial applications. The housing is finished with a baked-on silver-gray powder-coated finish and may be used indoors or outdoors. Wall-mountable for transition splicing between cable at building entrance or pigtail splicing, the ISH provides storage and protection of fiber splices in individually accessible trays. The units have a padlockable outer door. The ISH is designed to accommodate conduit fittings with the provided plugs and reduction washer, and it accepts standard LANscape Solutions splice trays. The Industrial Splice Housing is also compatible with Corning Cable Systems Industrial Connector Housings ICH-02P-IND, ICH-06P-IND and ICH-12P-IND.

FEATURES

- NEMA 250-1997 3S and IP64, 65, 66, 67 and 69 tested
- Accepts standard LANscape Solutions splice trays
- Keyhole mounting holes speed installation
- Padlockable with user-supplied padlock for secured access
- Reliability in harsh environments

INDUSTRIAL SPLICE HOUSING (ISH)

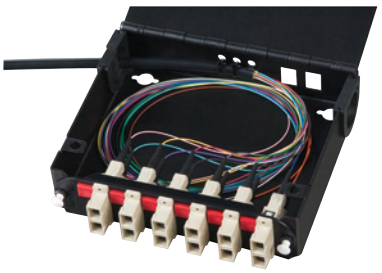
Anixter No.	Vendor No.	Description
394415	ISH-12SPT	Industrial Splice Housing; accepts up to 12 Type 2S splice trays

ACCESSORIES

Anixter No.	Vendor No.	Description
263462	FDC-CABLE-GRND	Armored cable grounding kit; contains one armored grounding clip and one ground strap

Single Panel Housing (SPH-01P)

CORNING CABLE SYSTEMS



The Corning Cable Systems Single Panel Housing (SPH-01P) is a cost-effective housing for storage, protection and termination of optical fiber cables. Accepting standard LANscape Solutions CCH connector panels, the housing offers protection for the fiber cable and connectors in the physical plant. This compact unit is ideal for use in locations such as building entrance terminals, wiring closets, open office and other controlled environments where space is at a premium.

FEATURES

- Accepts one CCH connector panel
- Includes a 6-slot, 0.4 in. splice holder accommodating up to 12 heat-shrink splices
- Can be used for splice management, cross-connect or both for up to 12 fibers
- 1.5 in. projection from the wall minimizes space requirements for Corning Cable Systems smallest offering (2.0 in. including plungers)
- Excellent for interconnect and cross-connect functions
- Provided top and bottom cable entry grommets allow for midspan access and environmental sealing
- Cost effective for customer premises or remote locations
- Durable black metal housing
- As with all Corning Cable Systems housings, all of the accessories required to properly install the housing are included

APPLICATIONS

Indoor wall-mount installations
Telecommunications rooms, closets and enclosures, small spaces
DOT Traffic Control cabinets and industrial PLC cabinets
12-fiber interconnect and splicing

SINGLE PANEL HOUSING (SPH-01P)

Anixter No.	Vendor No.	Description
313351	SPH-01P	Single panel wall-mount housing accommodating one CCH connector panel. Also includes a six-slot, 0.4 in. splice holder and can be used for splice management, cross-connect, or both up to 12 fibers. CCH panels ordered separately

ACCESSORIES

Anixter No.	Vendor No.	Description
313352	SPH-01P-BKT	Ledge-mount bracket used to mount to the top of a ledge

Industrial Fiber

Environmental Distribution Center (EDC)

CORNING CABLE SYSTEMS

The Corning Cable Systems Environmental Distribution Center (EDC) product family incorporates design features that allow the product to better accommodate the changing requirements and growing needs of fiber optic networks. By improving on the original design, the EDC product family continues to set the standard for the future of interconnect hardware. As a component of Corning Cable Systems LANscape Fiber Cabling Solutions, the EDC will accept Closet Connector Housing (CCH) panels and splice trays.

Designed for the storage and protection of fiber optic connections and splices in indoor or outdoor environments, the EDC is ideal for industrial, marine, security or traffic control applications. The unit includes brackets required for mounting to a wall or pole. Accessories for the EDC include various fittings, a rack-mount kit and a grounding kit.

FEATURES

- Composite construction offers outstanding chemical and temperature resistance and exhibits excellent weatherability
- Constructed of a low smoke zero halogen material
- Unit is easy to punch, drill, file or saw, making the installation of cable entry holes simpler
- Cover can be secured with corrosion-resistant, captive screws or quick-release latches that will also accept a user-supplied padlock if additional security is required
- Accepts the LANscape Solutions CCH panels (available in 6-, 8-, 12-, 16- or 24-fiber increments) for most popular adapter types including SC duplex, LC duplex and MT-RJ
- Brackets for wall- or pole-mounting are included
- Will accept splice trays that accommodate a variety of splicing techniques including fusion and mechanical splices for splicing or fan-out applications
- Suitable for loose-tube, tight-buffered and ribbon cable
- NEMA 4X rated
- As with all Corning Cable Systems housings, all of the accessories required to properly install the housing are included

APPLICATIONS

Outdoor rated
Backbone cabling terminations in outdoor applications such as industrial, security or traffic control NEMA 4X rating
Field connectorization or pigtail splicing

ENVIRONMENTAL DISTRIBUTION CENTER

Anixter No.	Vendor No.	Description
206695	EDC-02P-NH	Accepts two CCH panels and two Type 2R or one Type 4R reduced-length splice trays; no cable entry holes provided
206696	EDC-06P-NH	Accepts six CCH panels and six Type 2S or three Type 4S splice trays; no cable entry holes provided
223274	EDC-12P-NH	Accepts 12 CCH panels and 12 Type 2S, six Type 4S or six Type 4A splice trays; no cable entry holes provided

ACCESSORIES

Anixter No.	Vendor No.	Description
267110	HDWR-GRND-KIT	Hardware grounding kit; includes two ground wires, one sheath ground clip and one ground bus

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Utility Cable

General Cable

Nexans

Southwire
WE DELIVER POWER... RESPONSIBLY

Bare Copper, Solid and Stranded

Bare Copper, Solid and Stranded

SPECIFICATIONS

1. SOLID: ASTM B-1 = Hard-drawn temper; ASTM B-2 = Medium-hard-drawn temper; ASTM B-3 = Soft-drawn temper
2. STRANDED: ASTM B-8 = Concentric lay, Class B or Class C

APPLICATIONS

Solid (medium-hard or hard-drawn temper) for use in overhead, outdoor applications for distribution circuits. Stranded (hard-, medium-hard or soft-drawn temper) for grounding.

SOLID

All part numbers are for soft-drawn temper. For other tempers use the suffix "H" for hard-drawn or "M" for medium-hard-drawn temper, (e.g. 1A-0801H). Diameters and weights may vary among manufacturers.

Anixter No.	Conductor Size AWG	No. of Strands	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
1A-2601	26	Solid	0.016	0.8
1A-2401	24	Solid	0.020	1.2
1A-2201	22	Solid	0.025	1.9
1A-2001	20	Solid	0.032	3.1
1A-1801	18	Solid	0.040	4.9
1A-1601	16	Solid	0.051	7.8
1A-1401	14	Solid	0.064	12.4
1A-1201	12	Solid	0.081	19.8
1A-1001	10	Solid	0.102	31.4
1A-0801	8	Solid	0.129	50.0
1A-0601	6	Solid	0.162	79.4
1A-0401	4	Solid	0.204	126.3
1A-0201	2	Solid	0.258	201.9

CLASS B - STRANDED

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
1B-0807	8	7	0.146	51
1B-0607	6	7	0.184	81
1B-0407	4	7	0.232	129
1B-0207	2	7	0.292	205
1B-0119	1	19	0.332	259
1B-10119	1/0	19	0.373	326
1B-20219	2/0	19	0.419	411
1B-30319	3/0	19	0.470	518
1B-40419	4/0	19	0.528	653
1B-25037	250	37	0.575	772
1B-30037	300	37	0.630	926
1B-35037	350	37	0.681	1,081
1B-40037	400	37	0.728	1,235
1B-50037	500	37	0.813	1,544
1B-60061	600	61	0.893	1,853
1B-75061	750	61	0.998	2,316
1B-100061	1000	61	1.152	3,088

Continued on next page >>

Bare Copper, Solid and Stranded

(continued) Bare Copper, Solid and Stranded

BELDEN SHIELDING BRAID

Tinned copper shielding and bonding braid/cable

Anixter No.	Approx. AWG	No. of Strands	Rec. Current (Amps)	Approx. Circular Area	Nominal ID Tubular
1SB-0038-B	14.6	96/34	27	3,800	0.125
1SB-0047-B	13.3	120/34	36	4,800	0.172
1SB-0076-B	11.3	192/34	46	7,600	0.203
1SB-0133-B	8.9	336/34	62	13,300	0.500
1SB-0229-B	6.6	576/34	80	22,900	0.781
1SB-0480-B	3.4	480/30	145	48,000	0.750

BELDEN BUS BAR

Bare copper bus bar QQ-W-343G

Anixter No.	Approx. AWG	No. of Strands	Approx. Circular Area	Nominal O.D. (in.)
B8025	30	Solid	102	0.010
B8024	28	Solid	164	0.013
B8023	26	Solid	262	0.016
B8022	24	Solid	424	0.021
B8021	22	Solid	650	0.026
B8020	20	Solid	1,056	0.033
B8019	18	Solid	1,648	0.041
B8013	16	Solid	2,673	0.052
B8012	14	Solid	4,251	0.065
B8011	12	Solid	6,872	0.083

Bare Aluminum, Solid and Stranded

Bare Aluminum, Solid and Stranded

SPECIFICATIONS

1. CONDUCTOR: ASTM B-230 aluminum wire, ASTM B-231 aluminum, concentric-lay-stranded
2. STANDARDS: 1350 alloy - H19 temper
3. AMPACITY: Based on a 40°C ambient temperature with a wind velocity of 2 ft./sec. and an emissivity factor of 0.5 with no sun per ANSE/IEEE Std. 738 and The Aluminum Association Std. 55

APPLICATIONS

Solid or stranded for overhead outdoor applications in distribution circuits.

Anixter No.	Code Name	Conductor Size AWG/kcmil	No. of Strands	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor	Minimum Breaking Strength lb.
1C-0601	Passionflower	6	Solid	0.162	24	90	232
1C-0401	PomPom	4	Solid	0.204	38	120	369
1C-0201	Begonia	2	Solid	0.258	61	165	586
1D-0601	Peachbell	6	7	0.184	25	90	563
1D-0401	Rose	4	7	0.232	39	120	881
1D-0201	Iris	2	7	0.292	60	165	1,350
1D-1011	Poppy	1/0	7	0.368	99	220	1,990
1D-2021	Aster	2/0	7	0.414	125	255	2,510
1D-3031	Phlox	3/0	7	0.464	158	295	3,040
1D-4041	Oxlip	4/0	7	0.522	198	345	3,830
1D-2501	Valerian	250	19	0.574	235	385	4,660
1D-3501	Daffodil	350	19	0.679	329	475	6,390
1D-5001	Hyacinth	500	37	0.813	469	600	9,110
1D-6001	Meadowsweet	600	37	0.891	563	675	10,700
1D-7001	Flag	700	61	0.964	657	745	12,900
1D-7501	Cattail	750	61	0.998	704	780	13,500
1D-10001	Camellia	1000	61	1.152	938	935	17,700

6201-T81 temper also available. Diameters and weights may vary among manufacturers.

Bare Aluminum ACSR

Bare Aluminum, ACSR

SPECIFICATIONS

1. CONDUCTOR: Compact aluminum conductors steel reinforced (ACSR) complies with one-layer compact ACSR in CSA Standard C49.2 (ACSR)
2. STANDARDS: 1350 alloy - H19 temper
3. AMPACITY: Based on a 40°C ambient temperature with a wind velocity of 2 ft./sec. and an emissivity factor of 0.5 with no sun per ANSI/IEEE Std. 738-1976 and The Aluminum Association Std. 55

APPLICATIONS

Aluminum conductor steel reinforced (ACSR) is used for aerial transmission. It has a high strength to weight ratio.

Anixter No.	Code Name	Conductor Size or Circular Mils/AWG	Strands AL/Steel	Amps per Conductor	Minimum Breaking Strength lb.
1H-0601T	Turkey	6	6/1	90	1,190
1H-0401S	Swan	4	6/1	120	1,860
1H-0201SP	Sparrow	2	6/1	160	2,850
1H-0101	Robin	1	6/1	185	3,550
1H-1011R	Raven	1/0	6/1	215	4,380
1H-2021Q	Quail	2/0	6/1	245	5,310
1H-3031P	Pigeon	3/0	6/1	285	6,620
1H-4041P	Penguin	4/0	6/1	325	8,350
1H-2661P	Partridge	266,800	26/7	415	11,300
1H-3001	Piper	300,000	30/7	450	-----
1H-3001O	Ostrich	300,000	26/7	445	12,700
1H-3361M	Merlin	336,400	18/1	470	8,680
1H-3361	Oriole	336,400	30/7	485	17,300
1H-3361L	Linnett	336,400	26/7	480	14,100
1H-3971	Lark	397,500	30/7	540	20,300
1H-3971I	Ibis	397,500	26/7	535	16,300
1H-4771	Hen	477,000	30/7	610	23,800
1H-4771H	Hawk	477,000	26/7	600	19,500
1H-5001	Heron	500,000	30/7	620	-----
1H-5561	Eagle	556,500	30/7	675	27,800
1H-5561D	Dove	556,500	26/7	665	22,600
1H-6051	Duck	605,000	54/7	700	-----
1H-6361	Goose	636,000	54/7	730	-----
1H-6361G	Grosbeak	636,000	26/7	725	25,200
1H-7151	Starling	715,500	26/7	785	28,400
1H-7151C	Crow	715,500	54/7	770	-----
1H-7951C	Condor	795,000	54/7	825	28,200
1H-7951D	Drake	795,000	26/7	840	31,500
1H-8741	Crane	874,500	54/7	880	-----
1H-9001	Canary	900,000	54/7	880	31,900
1H-9541C	Cardinal	954,000	54/7	930	33,800
1H-10331	Curlew	1,033,500	54/7	980	36,600

Other types:

(1) extra high-strength strands which have a higher ratio of steel to aluminum,

(2) smooth body strands in which the individual aluminum wires are compressed into sector shapes around the steel core and provide a smooth outer surface.

Diameters and weights may vary among manufacturers.

Service Drop

Service Drop

SPECIFICATIONS

1. CONDUCTOR: Aluminum conductor complying with ASTM B-232
2. INSULATION: Polyethylene conforms to ASTM D-1248, the self-supporting version includes a neutral messenger
3. ASSEMBLY: The bare messenger's direction of lay of the outer layer of stranded wire is right-handed
4. AMPACITY: Based on a 40°C ambient temperature, 75°C conductor temperature, a wind velocity of 2 ft./sec. and an emissivity factor of 0.5 with no sun per ANSI/IEEE Std. 738-1976 and The Aluminum Association Std. 55
5. TEMPERATURE: 75°C
6. VOLTAGE: 600 V

APPLICATIONS

Aluminum conductor, with steel support strand, covered with weatherproof HMW (high molecular weight) polyethylene for overhead transmission of power.

DUPLEX

Anixter No.	Code Name	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	ACSR Neutral Messenger AWG	Strands AL/Steel	Approx. Wt. lb./1,000 ft.	Amps per Conductor
SHEPHERD	Shepherd	6	7	0.060	6	6/1	75	90
TERRIER	Terrier	4	10/30	0.045	4	6/1	120	110
CHOW	Chow	2	7	0.045	6	6/1	75	80
BULL	Bull	1/0	10/30	0.045	1/0	6/1	293	195

TRIPLEX

Anixter No.	Code Name	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	ACSR Neutral Messenger AWG	Strands AL/Steel	Approx. Wt. lb./1,000 ft.	Amps per Conductor
CONCH	Conch	2	7	0.045	2	6/1	267	145
MURSIA	Mursia	3/0	19	0.060	3/0	6/1	646	235
NERITINA	Neritina	1/0	7	0.060	1/0	6/1	429	195
PERIWINKLE	Periwinkle	4	7	0.045	4	6/1	176	125
RUNCINA	Runcina	2/0	7	0.060	2/0	6/1	530	225
TRITON	Triton	2/0	19	0.060	2/0	6/1	522	225
VOLUTA	Voluta	6	7	0.045	6	6/1	117	80
ZUZARA	Zuzara	4/0	19	0.060	4/0	6/1	804	300

QUADRUPLEX

Cross-Linked Polyethylene (XLP) insulation and copper conductors also available. Diameters and weights may vary among manufacturers.

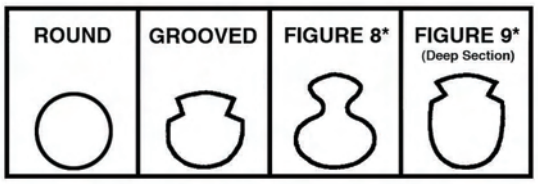
Anixter No.	Code Name	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	ACSR Neutral Messenger AWG	Strands AL/Steel	Approx. Wt. lb./1,000 ft.	Amps per Conductor
APPALOOSA	Appaloosa	4/0	19	0.060	4/0	6/1	1,060	280
CHOLA	Chola	6	7	0.045	6	6/1	157	75
COSTENA	Costena	1/0	19	0.060	1/0	6/1	561	180
GRULLO	Grullo	2/0	19	0.060	2/0	6/1	692	205
HACKNEY	Hackney	4	7	0.045	4	6/1	235	75
MUSTANG	Mustang	2	7	0.045	2	6/1	333	130
PALOMINO	Palomino	2	7	0.060	2	6/1	355	145
SUFFOLK	Suffolk	3/0	19	0.060	3/0	6/1	853	240

Trolley Wire

Trolley Wire

SPECIFICATIONS

1. CONDUCTOR: For Figure 8 and Figure 9 wire, dimensions given are nominal height of entire section and width of lower lobe. Diameters and weights may vary among manufacturers.
2. STANDARDS: Copper trolley wire manufactured to ASTM B-47 and ASTM B-116 where applicable



APPLICATIONS

Used as current carrying contact wire to supply power to mining cars, mining equipment, industrial cranes, urban transit and railroad vehicles.

ROUND - ASTM B-47

Anixter No.	Conductor Size AWG/kcmil	Nominal O.D. (in.)	Area Circular Mils	Area Square (in.)	Approx. Wt. lb./1,000 ft.	Minimum Tensile Strength lb./Sq. (in.)	Resistance at 20°C Ohms/1,000 ft.	Minimum Breaking Strength lb.
1AT-1011R	1/0	0.3249	105,600	0.0829	319.5	54,500	0.10110	4,518
1AT-2021R	2/0	0.3648	133,100	0.1045	402.6	52,800	0.08021	5,519
1AT-3031R	3/0	0.4096	167,800	0.1318	507.8	51,000	0.06362	6,720
1AT-4041R	4/0	0.4600	211,600	0.1662	640.5	49,000	0.05405	8,143
1AT-3001R	300	0.5477	300,000	0.2356	908.6	46,400	0.03558	10,930

GROOVED - ASTM B-47

Anixter No.	Conductor Size AWG/kcmil	Nominal O.D. (in.)	Area Circular Mils	Area Square (in.)	Approx. Wt. lb./1,000 ft.	Minimum Tensile Strength lb./Sq. (in.)	Resistance at 20°C Ohms/1,000 ft.	Minimum Breaking Strength lb.
1AT-2021G	2/0	0.392	137,900	0.1083	417.4	50,200	0.07741	5,437
1AT-3031G	3/0	0.430	167,300	0.1314	506.4	48,500	0.06380	6,373
1AT-4041G	4/0	0.482	212,000	0.1665	641.7	46,600	0.05035	7,759
1AT-3001G	300	0.574	299,800	0.2355	907.5	44,200	0.03560	10,410
1AT-3501G	350	0.620	351,200	0.2758	1,063	42,800	0.03039	11,810

FIGURE 8 - ASTM B-116

Anixter No.	Conductor Size AWG/kcmil	Nominal O.D. (in.)	Area Circular Mils	Area Square (in.)	Approx. Wt. lb./1,000 ft.	Minimum Tensile Strength lb./Sq. (in.)	Resistance at 20°C Ohms/1,000 ft.	Minimum Breaking Strength lb.
1AT-10118	1/0	0.420 x 0.312	105,600	0.0829	319.7	51,800	0.10110	4,296
1AT-20218	2/0	0.480 x 0.352	133,100	0.1045	402.9	50,200	0.08020	5,248
1AT-30318	3/0	0.510 x 0.400	167,800	0.1318	507.9	48,500	0.06361	6,392
1AT-40418	4/0	0.600 x 0.450	211,600	0.1662	640.5	46,600	0.05045	7,744
1AT-35018	350	0.754 x 0.570	350,100	0.2750	1,060.0	42,800	0.03049	11,770

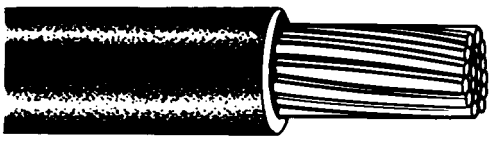
FIGURE 9 - DEEP SECTION - ASTM B-116

Anixter No.	Conductor Size AWG/kcmil	Nominal O.D. (in.)	Area Circular Mils	Area Square (in.)	Approx. Wt. lb./1,000 ft.	Minimum Tensile Strength lb./Sq. (in.)	Resistance at 20°C Ohms/1,000 ft.	Minimum Breaking Strength lb.
1AT-3501D	350	0.707 x 0.496	348,900	0.2740	1,056.0	42,800	0.03059	11,730
1AT-4001D	400	0.715 x 0.552	397,200	0.3120	1,202.0	41,300	0.02687	12,880

Copper Grounding Cable

Copper Grounding Cable

PVC insulation



SPECIFICATIONS

1. CONDUCTOR: Class K stranded, bare copper, extra-fine strands allow for greater flexibility and handling ease
2. INSULATION: Clear Polyvinyl Chloride (PVC)

APPLICATIONS

Used in applications for grounding of equipment and structures. This cable can also be used in hazardous locations such as refineries, fuel storage areas and chemical plants.

Anixter No.	Conductor Size AWG/kcmil	No. of 30 AWG Strands	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
5GC-0201	2	665	0.100	0.530	300
5GC-1011	1/0	1,045	0.100	0.580	465
5GC-2021	2/0	1,330	0.100	0.650	565
5GC-4041	4/0	2,109	0.100	0.780	865

Diameters and weights may vary among manufacturers.
#6 AWG solid copper and yellow TPE insulation also available.

Photovoltaic (PV) Wire

Photovoltaic (PV) Wire

XLP
90°C wet/dry
UL Listed for PV use

SPECIFICATIONS

1. CONDUCTOR: Stranded, annealed, copper per ASTM B-8
2. INSULATION: Sunlight-resistant Cross-Linked Polyethylene (XLP) Type RHW-2 per UL 44
3. COLORS: Use suffix "-01" for white, "-02" for black, and "-03" for red
4. STANDARDS: Cable is listed as Type USE-2 per UL 854, RHH/RHW-2 per UL 44, and Type PV per UL 4703
5. AMPACITY: Based on not more than three conductors in raceway or cable or earth per 2008 NEC 310.16 with an ambient temperature of 30°C
6. TEMPERATURE: 90°C

APPLICATIONS

For use in Photovoltaic (PV) solar applications, used to interconnect solar panels.

PHOTOVOLTAIC WIRE 600 V

Photovoltaic Wire 600 V UL Rated, 600 V PV, 600 V USE-2, 600 V RHW-2

Anixter No.	Conductor Size AWG	No. of Strands	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
PV-1019-UL-01	10	19	0.075	0.28	57	40
PV-1019-UL-02	10	19	0.075	0.28	57	40
PV-1019-UL-03	10	19	0.075	0.28	57	40

PHOTOVOLTAIC WIRE 2 KV

Photovoltaic Wire 2 kV UL Rated, 2 kV RHW-2, 2 kV PV, 600 V USE-2

Anixter No.	Conductor Size AWG	No. of Strands	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
PV-1019-UL-2KV-01	10	19	0.075	0.28	57	40
PV-1019-UL-2KV-02	10	19	0.075	0.28	57	40
PV-1019-UL-2KV-03	10	19	0.075	0.28	57	40

Substation Control Cable

Shielded Substation Control Cable

XLP insulation
CPE jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTORS: Class B stranded copper per ASTM B-3 and B-8
2. INSULATION: Cross-Linked Polyethylene (XLP)
3. COLOR CODE: ICEA Method 1, Table E-1 (formerly K-1) for 14-10 AWG, ICEA Method 4 (printed numbers) for 8 AWG
4. ASSEMBLY: Conductors are cabled with fillers where necessary to make round
5. SHIELDING: 0.005 in. (5-mil) longituidinally applied corrugated copper tape
6. OVERALL JACKET: Sunlight-resistant Chlorinated Polyethylene (CPE)
7. STANDARDS: Cable listed Type TC per UL 1277 requirements. Conductors listed Type XHHW-2 per UL 44 with VW-1 rating and meet ICEA S-73-532 (NEMA WC57) requirements. Cable listed for direct burial and meets the IEEE 1202, UL 1685 (70,000 Btu/hr), and ICEA T-29-520 (210,000 Btu/hr) Vertical Tray Flame Tests
8. AMPACITY: Based on not more than three conductors in raceway or cable or earth with an ambient temperature of 30ºC per 2008 NEC Table 310.16, all multiconductor values have been derated per 2008 NEC Table 310.15(B)(2)(a).
9. TEMPERATURE: 90ºC wet/dry
10. VOLTAGE: 600 V

APPLICATIONS

Designed for power and control, telemetery, relay control, traffic control, switching, lighting and signal transmission in substation applications.
May be used in Class 1, Div. 2 Hazardous Locations per 2008 NEC Art. 501.
These cables also conform to 2008 NEC Article 336 Power and Control Tray Cable (Type TC).

SHIELDED SUBSTATION CONTROL CABLE

Diameters and weights may vary among manufacturers. Other conductor counts available upon request.

Anixter No.	Conductor Size AWG/kcmil	No. of Conductors	Ground Wire Size AWG	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2XR-1412LCS-1	14	12	-----	0.030	0.060	0.76	360	12
2XR-1407LCS-1	14	7	-----	0.030	0.060	0.56	230	17
2XR-1405LCS-1	14	5	-----	0.030	0.060	0.52	168	20
2XR-1404LCS-1	14	4	-----	0.030	0.045	0.49	144	20
2XR-1403LCS-1	14	3	-----	0.030	0.045	0.45	121	25
2XR-1402LCS-1	14	2	-----	0.030	0.045	0.43	99	25
2XR-1212LCS-1	12	12	-----	0.030	0.060	0.83	476	15
2XR-1207LCS-1	12	7	-----	0.030	0.060	0.65	304	24
2XR-1205LCS-1	12	5	-----	0.030	0.060	0.57	240	24
2XR-1204LCS-1	12	4	-----	0.030	0.045	0.53	187	24
2XR-1203LCS-1	12	3	-----	0.030	0.045	0.49	154	30
2XR-1202LCS-1	12	2	-----	0.030	0.045	0.47	122	30
2XR-1012LCS-1	10	12	-----	0.030	0.080	0.98	700	20
2XR-1007LCS-1	10	7	-----	0.030	0.060	0.72	415	28
2XR-1005LCS-1	10	5	-----	0.060	0.080	0.98	320	32
2XR-1004LCS-1	10	4	-----	0.030	0.060	0.59	269	32
2XR-1003LCS-1	10	3	-----	0.030	0.060	0.55	220	40
2XR-1002LCS-1	10	1	-----	0.030	0.045	0.52	156	40
2XR-0804LCS-WG-1	8	4	1#10	0.045	0.060	0.77	430	44
2XR-0803LCS-WG-1	8	3	1#10	0.045	0.060	0.70	350	55

20/10 Substation Control Cable

20/10 Substation Control Cable

Polyethylene-PVC insulation
PVC jacket
75°C, 600 V

SPECIFICATIONS

1. CONDUCTORS: Bare soft annealed copper per ASTM B-3, conductors are Class B concentric strand in accordance with ASTM B-8
2. INSULATION: 20 mils of high molecular weight polyethylene (HMWPE), covered with 10 mils of color-coded Polyvinyl Chloride (PVC)
3. COLOR CODE: ICEA Method 1, Table E-1 (formerly K-1)
4. ASSEMBLY: Insulated conductors are cabled with fillers as necessary, the two-conductor constructions are flat, all others round
5. OVERALL JACKET: Polyvinyl Chloride (PVC)
6. STANDARDS: Finished cable meets ICEA S-73-532 (NEMA WC57) requirements
7. TEMPERATURE: 75ºC
8. VOLTAGE: 600 V

APPLICATIONS

For use in control circuits for utility substations, and various operating, relaying, telemetering, indicating, signalling and measuring circuits for industrial plants and processes. Suitable for use in duct, conduit and aerial.

Anixter No.	Conductor Size AWG	No. of Conductors	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
2B-1402	14	2	0.045	0.228 x 0.363	68
2B-1403	14	3	0.045	0.385	109
2B-1404	14	4	0.045	0.420	131
2B-1405	14	5	0.045	0.464	152
2B-1407	14	7	0.045	0.503	162
2B-1409	14	9	0.060	0.610	193
2B-1410	14	10	0.060	0.665	291
2B-1412	14	12	0.060	0.684	326
2B-1414	14	14	0.060	0.720	336
2B-1415	14	15	0.060	0.764	400
2B-1419	14	19	0.060	0.791	507
2B-1425	14	25	0.080	1.000	611
2B-1430	14	30	0.080	1.035	691
2B-1437	14	37	0.080	1.118	822
2B-1202	12	2	0.045	0.247 x 0.401	98
2B-1203	12	3	0.045	0.426	139
2B-1204	12	4	0.045	0.466	178
2B-1205	12	5	0.060	0.545	239
2B-1207	12	7	0.060	0.587	293
2B-1208	12	8	0.060	0.646	331
2B-1212	12	12	0.060	0.758	447
2B-1215	12	15	0.080	0.907	605
2B-1219	12	19	0.080	0.929	715
2B-1225	12	25	0.080	1.094	828
2B-1237	12	37	0.080	1.251	1,159
2B-1002	10	2	0.045	0.270 x 0.455	118
2B-1003	10	3	0.045	0.480	186
2B-1004	10	4	0.060	0.556	265
Diameters and weights may vary among manufacturers. Other conductor counts available upon request.					
2B-1005	10	5	0.060	0.611	312
2B-1007	10	7	0.060	0.663	400

20/10 Substation Control Cable

Anixter No.	Conductor Size AWG	No. of Conductors	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
2B-1008	10	8	0.060	0.727	460
2B-1009	10	9	0.060	0.770	446
2B-1012	10	12	0.080	0.912	691
2B-0902	9	2	0.045	0.290 x 0.490	132
2B-0903	9	3	0.045	0.520	188
2B-0904	9	4	0.060	0.600	258
2B-0905	9	5	0.060	0.660	313
2B-0907	9	7	0.060	0.720	418
2B-0909	9	9	0.060	0.845	530

Diameters and weights may vary among manufacturers.
Other conductor counts available upon request.

URD

URD Cable, Copper Conductor, Jacketed

TR-XLP insulation
Full concentric neutral
LLDPE jacket
100% insulation level, 5 kV

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed, bare copper, conductor is covered with a semiconducting material
2. INSULATION: Cross-Linked Polyethylene (TR-XLP)
3. INSULATION SHIELD: Extruded semiconducting material
4. CONCENTRIC NEUTRAL: Annealed bare copper spirally applied over the insulation shield
5. OVERALL JACKET: Linear Low Density Polyethylene (LLDPE)
6. STANDARDS: Tested in accordance with AEIC CS8 and ICEA S-94-649
7. TEMPERATURE: 90°C
8. VOLTAGE: 5 kV

APPLICATIONS

For use on single-phase primary underground distribution systems.

Anixter No.	Conductor Size AWG/kcmil	Insulation Thickness (in.)	Nominal Diameter over Insulation (in.)	Nominal Diameter over Insulation Shield (in.)	Concentric Wires No.	Concentric Wires AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
3JJ-0401	4	0.090	0.43	0.50	16	16	0.74	440
3JJ-0201	2	0.090	0.49	0.56	25	16	0.79	620
3JJ-0101	1	0.090	0.53	0.59	32	16	0.87	790
3JJ-1011	1/0	0.090	0.56	0.63	25	14	0.93	950
3JJ-2021	2/0	0.090	0.60	0.67	20	12	1.01	1,170
3JJ-3031	3/0	0.090	0.65	0.72	25	12	1.06	1,420
3JJ-4041	4/0	0.090	0.70	0.77	20	10	1.15	1,760

Diameters and weights may vary among manufacturers.

URD Cable, Aluminum Conductor, Jacketed

TR-XLP insulation
Full concentric neutral
LLDPE jacket
133% insulation level, 15 kV

SPECIFICATIONS

1. CONDUCTOR: Class B stranded aluminum (1350), strand shield is an extruded semiconducting compound
2. INSULATION: Cross-Linked Polyethylene (TR-XLP)
3. INSULATION SHIELD: Extruded semiconducting material
4. CONCENTRIC NEUTRAL: Annealed, bare copper spirally applied over the insulation shield
5. OVERALL JACKET: Linear Low Density Polyethylene (LLDPE) per ICEA
6. STANDARDS: Tested in accordance with AEIC CS8 and ICEA S-94-649
7. TEMPERATURE: 90°C
8. VOLTAGE: 15 kV

APPLICATIONS

For use on single-phase primary underground distribution systems.

Anixter No.	Conductor Size AWG	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Concentric Wires No.	Concentric Wires AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
3AMU-0215	2	7	0.220	0.050	10	14	1.10	545
3AMU-0115	1	19	0.220	0.050	13	14	1.14	615
3AMU-1015	1/0	19	0.220	0.050	16	14	1.18	700
3AMU-2015	2/0	19	0.220	0.050	13	12	1.26	845
3AMU-3015	3/0	19	0.220	0.050	16	12	1.31	945
3AMU-4015	4/0	19	0.220	0.050	20	12	1.36	1,120

EPR insulation available upon request. Diameters and weights may vary among manufacturers.

Smart Grid Solutions

Data Center Solutions

Structured Cabling Solutions
- Copper and optical cabling
- Patch cords and patch panels
- Preterminated solutions
- Intelligent patching

Accessories
- Racks, cabinets and shelving
- Cable management
- Overhead duct and ladder rack
- Grounding and bonding

Power and Cooling Solutions
- Power distribution units (PDU)
- Intelligent power strips
- Uninterrupted power supplies (UPS)
- Passive, precision and in-row cooling solutions

Management and Monitoring Solutions
- TZ Praetorian™ Cabinet Locking System
- KVM switches and console managers
- Environmental monitoring and management products
- CSU/DSU

Infrastructure Solutions (Inside the Substation)

Wire and Cable Products
- Control and power cable
- Medium voltage (5 kV to 35 kV)
- Grounding and bare copper cables
- Hook-up and lead wire
- Instrumentation and thermocouple cables
- Specialty wire and cable products

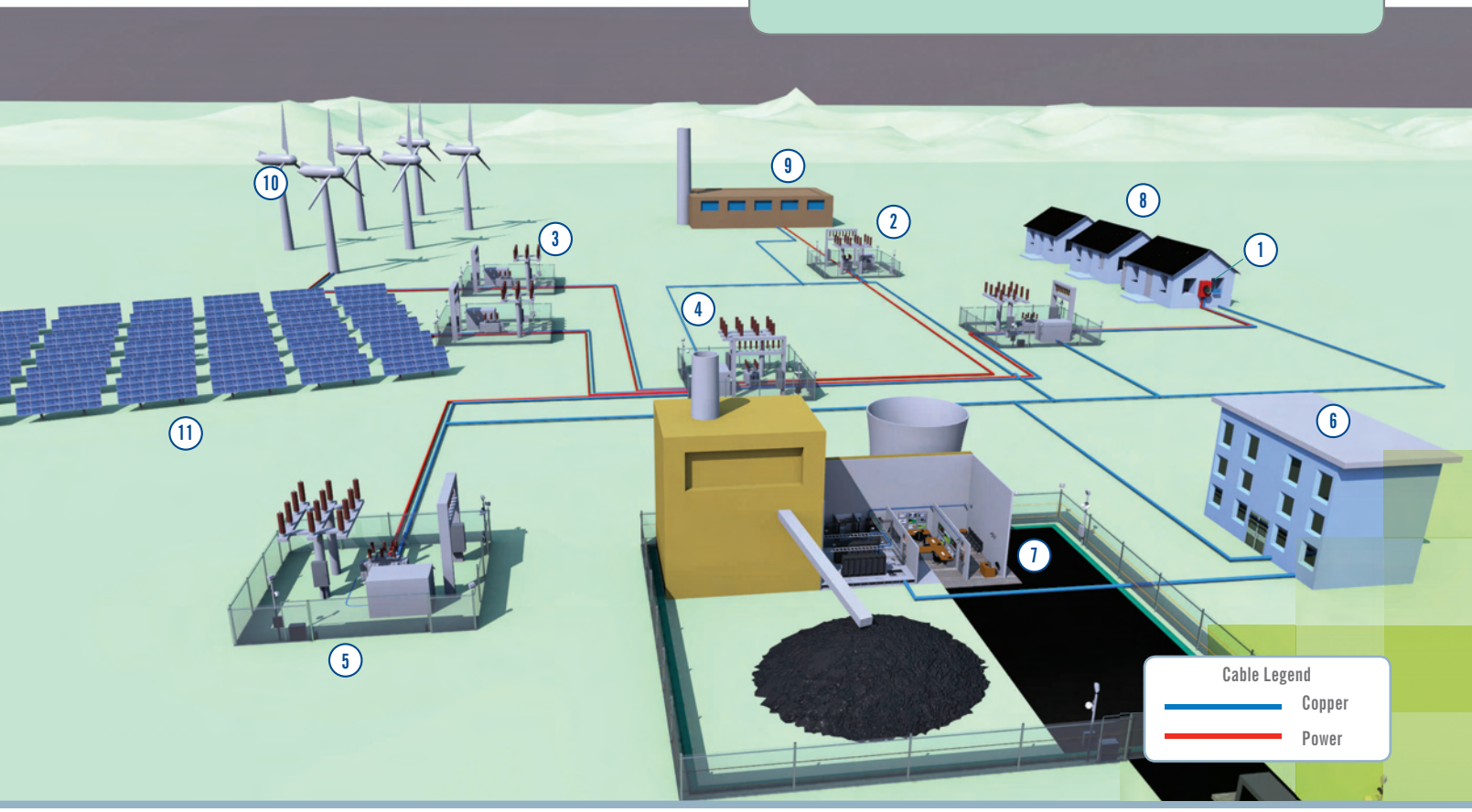
Industrial Communication Products
- Industrial Ethernet cabling and connectivity
- Industrial fiber (preterminated and bulk)
- Industrial-rated active networking components
- Industrial-rated gateway products

Support and Supply Products
- Cable management
- Terminations, splices and lugs
- Grounding products
- Enclosures

Security Solutions

- Video surveillance
- Access control
- Biometrics
- Sensors, contacts, motion detectors
- Intercoms
- IR illuminators
- Media converters
- Network servers, switches and storage
- Wireless transmission systems
- Fiber and copper transmission systems

1. Smart Meter
2. Distribution Substation
3. Collection Substation
4. Transmission Substation
5. Substation at Power Producer
6. Third-Party Communications Service Provider
7. Data Center
8. Industrial Power Users
9. Residential Power Users
10. Wind Farm
11. Solar Power



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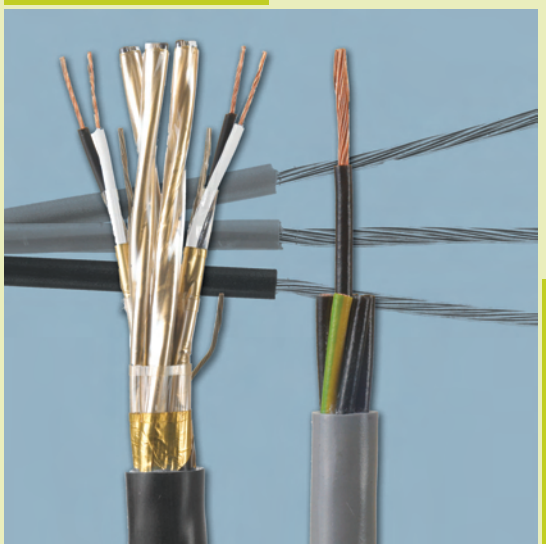


Control Cable

BELDEN

General Cable

LAKE CABLE, LLC
WHEN DELIVERY MATTERS...

LAPP GROUP

Nexans

Southwire
WE DELIVER POWER... RESPONSIBLY

Instrumentation Cable Products

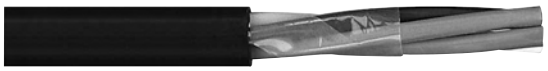
LAKE CABLE, LLC

WHEN DELIVERY MATTERS...

Industrial Tray Cable

XLP/TS-CPE

XLP insulation
TS-CPE jacket
90°C, 600 V



SPECIFICATIONS

1. CONDUCTORS: Class B stranded tinned copper per ASTM B-3, B-8 and B-33
2. INSULATION: Cross-Linked Polyethylene (XLPE) per ICEA S-73-532 (NEMA WC57), meets UL 44 requirements for VW-1, Type XHHW-2 conductors
3. COLOR CODE: Conductors shall be color coded per ICEA Method 1, Table E-2 (formerly K-2)
4. ASSEMBLY: Conductors are cabled with fillers where necessary to make round, two conductor cables are flat
5. OVERALL JACKET: Sunlight-resistant Thermoset Chlorinated Polyethylene (TS-CPE) per UL 1277
6. STANDARDS: Meets per UL 1277 requirements for Type TC cables having VW-1, XHHW-2 conductors, cables are listed for direct burial and meet the IEEE 1202, IEEE 383, and UL 1685. 70,000 Btu/hr flame tests as well as the ICEA T-29-520, 210,000 Btu/hr flame tests
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth with an ambient temperature of 30ºC and a conductor temperature of 90ºC per NEC 310.16, the values have been derated where applicable
8. TEMPERATURE: 90ºC
9. VOLTAGE: 600 V

APPLICATIONS

Designed for power and control, telemetering, relay control, traffic control, switching, lighting and signal transmission. May be used in Class I, Div. 2 and Class II Div 2 Hazardous Locations per NEC Art. 501 and 502. These cables also conform to Art. 392 "Cable Trays" and Art. 336 "Power and Control Tray Cable: Type TC."

Anixter No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2RH-1402	14	2	0.030	0.045	0.260 x 0.400	63	25
2RH-1403	14	3	0.030	0.045	0.390	95	25
2RH-1404	14	4	0.030	0.045	0.425	118	20
2RH-1405	14	5	0.030	0.045	0.465	143	20
2RH-1407	14	7	0.030	0.045	0.505	179	17
2RH-1409	14	9	0.030	0.060	0.620	249	17
2RH-1412	14	12	0.030	0.060	0.700	317	12
2RH-1415	14	15	0.030	0.060	0.755	383	12
2RH-1419	14	19	0.030	0.060	0.815	467	12
2RH-1425	14	25	0.030	0.080	0.985	650	11
2RH-1430	14	30	0.030	0.080	1.050	750	11
2RH-1437	14	37	0.030	0.080	1.130	899	10
2RH-1202	12	2	0.030	0.045	0.270 x 0.430	87	30
2RH-1203	12	3	0.030	0.045	0.435	127	30
2RH-1204	12	4	0.030	0.045	0.475	160	24
2RH-1205	12	5	0.030	0.045	0.520	194	24
2RH-1207	12	7	0.030	0.060	0.595	264	24
2RH-1209	12	9	0.030	0.060	0.695	345	24
2RH-1212	12	12	0.030	0.060	0.780	435	15
2RH-1215	12	15	0.030	0.080	0.880	563	15
2RH-1219	12	19	0.030	0.080	0.955	690	15
2RH-1225	12	25	0.030	0.080	1.095	896	11
2RH-1230	12	30	0.030	0.080	1.175	1,040	11
2RH-1237	12	37	0.030	0.080	1.265	1,253	10
2RH-1002	10	2	0.030	0.045	0.290 x 0.480	116	40
2RH-1003	10	3	0.030	0.045	0.485	176	40

Industrial Tray Cable

Anixter No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2RH-1004	10	4	0.030	0.060	0.560	240	32
2RH-1005	10	5	0.030	0.060	0.615	291	32
2RH-1007	10	7	0.030	0.060	0.670	376	28
2RH-1009	10	9	0.030	0.080	0.785	484	28

Diameters and weights may vary among manufacturers.
Other conductor counts available upon request.
Unless otherwise specifically permitted in the NEC, the overcurrent protection shall not exceed 15 A for 14 AWG, 20 A for 12 AWG and 30 A for 10 AWG.
All part numbers require color code designation.
See Color Code Chart in the Technical Information section. For Method 1, Table E-1 color code add -1 to Part No. (e.g. 2RH-1209-1).

Industrial Tray Cable

FREP/CPE

EPR insulation
CPE jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTORS: Class B stranded tinned copper per ASTM B-3, B-8 and B-33
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-73-532 (NEMA WC57), meets UL 44 requirements for VW-1, Type XHHW-2 conductors
3. COLOR CODE: Conductors color coded per ICEA Method 1, Table E-2 (formerly K-2)
4. ASSEMBLY: Conductors are cabled with fillers where necessary to make round, two conductor cables are flat
5. OVERALL JACKET: Sunlight-resistant Chlorinated Polyethylene (CPE) per UL 1277
6. STANDARDS: Meets UL 1277 requirements for Type TC cables having VW-1, XHHW-2 conductors, cables are listed for direct burial and meet the IEEE 1202, IEEE 383, and UL 1685. 70,000 Btu/hr flame tests as well as the ICEA T-29-520, 210,000 Btu/hr flame test
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth with an ambient temperature of 30°C and a conductor temperature of 90°C per NEC 310.16, the values have been derated where applicable
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

Designed for power and control, telemetering, relay control, traffic control, switching, lighting and signal transmission. May be used in Class I, Div. 2 and Class II Div 2 Hazardous Locations per NEC Art. 501 and 502. These cables also conform to Art. 392 "Cable Trays" and Art. 336 "Power and Control Tray Cable."

Anixter No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2MR-1402	14	2	0.030	0.045	0.260 x 0.400	60	25
2MR-1403	14	3	0.030	0.045	0.390	92	25
2MR-1404	14	4	0.030	0.045	0.425	115	20
2MR-1405	14	5	0.030	0.045	0.465	139	20
2MR-1407	14	7	0.030	0.060	0.505	183	17
2MR-1409	14	9	0.030	0.080	0.620	250	17
2MR-1412	14	12	0.030	0.080	0.700	317	12
2MR-1415	14	15	0.030	0.080	0.755	383	12
2MR-1419	14	19	0.030	0.080	0.815	468	12
2MR-1425	14	25	0.030	0.080	0.985	645	11
2MR-1430	14	30	0.030	0.080	1.050	747	10
2MR-1437	14	37	0.030	0.080	1.130	897	10
2MR-1202	12	2	0.030	0.045	0.270 x 0.430	83	30
2MR-1203	12	3	0.030	0.045	0.435	124	30
2MR-1204	12	4	0.030	0.045	0.475	157	24
2MR-1205	12	5	0.030	0.045	0.520	191	24
2MR-1207	12	7	0.030	0.060	0.595	268	24
2MR-1209	12	9	0.030	0.060	0.695	347	24
2MR-1212	12	12	0.030	0.060	0.780	437	15
2MR-1215	12	15	0.030	0.060	0.880	561	15
2MR-1219	12	19	0.030	0.080	0.955	688	15
2MR-1225	12	25	0.030	0.080	1.095	894	11
2MR-1230	12	30	0.030	0.080	1.175	1,040	11
2MR-1237	12	37	0.030	0.080	1.265	1,256	12
2MR-1002	10	2	0.030	0.045	0.290 x 0.480	112	40
2MR-1003	10	3	0.030	0.045	0.485	172	40

Industrial Tray Cable

Anixter No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2MR-1004	10	4	0.030	0.060	0.560	234	32
2MR-1005	10	5	0.030	0.060	0.615	284	32
2MR-1007	10	7	0.030	0.060	0.670	381	28
2MR-1009	10	9	0.030	0.080	0.785	488	28

Diameters and weights may vary among manufacturers.
Other conductor counts available upon request.
Unless otherwise specifically permitted in the NEC, the overcurrent protection shall not exceed 15 A for 14 AWG, 20 A for 12 AWG and 30 A for 10 AWG.
All part numbers require color code designation.
See Color Code Chart in the Technical Information section. For Method 1, Table E-1 color code add -1 to Part No. (e.g. 2MR-1407-1).

Industrial Tray Cable

XLP/PVC

XLP insulation
PVC jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTORS: Class B stranded bare copper per ASTM B-3 and B-8
2. INSULATION: Cross-Linked Polyethylene (XLPE) per ICEA S-73-532 (NEMA WC57), meets UL 44 requirements for VW-1, Type XHHW-2 conductors
3. COLOR CODE: ICEA Method 1, Table E-2 (formerly K-2)
4. ASSEMBLY: Conductors are cabled with fillers where necessary to make round, two conductor cables are flat
5. OVERALL JACKET: Sunlight-resistant Polyvinyl Chloride (PVC) per UL 1277
6. STANDARDS: Meets per UL 1277 requirements for Type TC cables having XHHW-2 conductors, cables are listed for direct burial and meet the IEEE 1202, IEEE 383 and UL 1685. 70,000 Btu/hr flame tests as well as the ICEA T-29-520, 210,000 Btu/hr flame tests
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth with an ambient temperature of 30ºC and a conductor temperature of 90ºC per NEC Table 310.16, the values have been derated where applicable
8. TEMPERATURE: 90ºC
9. VOLTAGE: 600 V

APPLICATIONS

Designed for power and control, telemetering, relay control, traffic control, switching, lighting and signal transmission. May be used in Class I, Div. 2 and Class II, Div. 2 Hazardous Locations per NEC Art. 501 and 502. These cables also conform to Art. 392 "Cable Trays" and Art. 336 "Power and Control Tray Cable."

Anixter No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2AX-1402	14	2	0.030	0.045	0.260 x 0.400	62	25
2AX-1403	14	3	0.030	0.045	0.405	93	25
2AX-1404	14	4	0.030	0.045	0.445	116	20
2AX-1405	14	5	0.030	0.045	0.485	144	20
2AX-1407	14	7	0.030	0.045	0.525	187	17
2AX-1409	14	9	0.030	0.060	0.645	238	17
2AX-1412	14	12	0.030	0.060	0.715	303	12
2AX-1415	14	15	0.030	0.060	0.770	366	12
2AX-1419	14	19	0.030	0.060	0.815	461	12
2AX-1425	14	25	0.030	0.080	1.010	615	11
2AX-1430	14	30	0.030	0.080	1.075	720	11
2AX-1437	14	37	0.030	0.080	1.130	888	10
2AX-1202	12	2	0.030	0.045	0.270 x 0.430	86	30
2AX-1203	12	3	0.030	0.045	0.445	125	30
2AX-1204	12	4	0.030	0.045	0.485	160	24
2AX-1205	12	5	0.030	0.060	0.535	194	24
2AX-1207	12	7	0.030	0.060	0.610	273	21
2AX-1209	12	9	0.030	0.060	0.710	323	21
2AX-1212	12	12	0.030	0.060	0.795	416	15
2AX-1215	12	15	0.030	0.080	0.860	506	15
2AX-1219	12	19	0.030	0.080	0.955	681	15
2AX-1225	12	25	0.030	0.080	1.115	847	13
2AX-1237	12	37	0.030	0.080	1.140	1,241	10
2AX-1002	10	2	0.030	0.045	0.290 x 0.480	114	40
2AX-1003	10	3	0.030	0.045	0.495	173	40
2AX-1004	10	4	0.030	0.060	0.545	223	32

Industrial Tray Cable

Anixter No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2AX-1005	10	5	0.030	0.060	0.630	287	32
2AX-1007	10	7	0.030	0.060	0.685	382	28
2AX-1009	10	9	0.030	0.060	0.800	457	28

Diameters and weights may vary among manufacturers.
Other conductor counts available upon request.
Unless otherwise specifically permitted in the NEC, the overcurrent protection shall not exceed 15 A for 14 AWG, 20 A for 12 AWG and 30 A for 10 AWG.
All part numbers require a color code designation.
See Color Code Chart in the Technical Information section. For Method 1, Table E-1 color code add -1 to Part No. (e.g. 2AX-1802-1).

Industrial Tray Cable

XLP/LSZH Control

XLP insulation
LSZH jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTORS: Class B stranded bare copper per ASTM B-3 and B-8
2. INSULATION: Cross-Linked Polyethylene (XLP) per ICEA S-73-532 (NEMA WC57), meets UL 44 requirements for VW-1, Type XHHW-2 conductors
3. COLOR CODE: ICEA Method 1, Table E-2 (formerly K-2)
4. ASSEMBLY: Conductors are cabled with fillers where necessary to make round, two conductor cables are flat
5. OVERALL JACKET: Sunlight-resistant low smoke zero halogen thermoplastic per UL 1277
6. STANDARDS: Meets UL 1277 requirements for Type TC cables having XHHW-2 conductors, cables are listed for direct burial and meet the IEEE 1202 and UL 1685. 70,000 Btu/hr flame tests
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth with an ambient temperature of 30ºC and a conductor temperature of 90ºC per NEC Table 310.16, the values have been derated where applicable
8. TEMPERATURE: 90ºC
9. VOLTAGE: 600 V

APPLICATIONS

Designed for power and control, telemetering, relay control, traffic control, switching, lighting and signal transmission. May be used in Class I, Div. 2 and Class II, Div. 2 Hazardous Locations per NEC Art. 501 and 502. These cables also conform to Art. 392 "Cable Trays" and Art. 336 "Power and Control Tray Cable."

Anixter No.	Conductor Size AWG/kcmil	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2LS-1002	10	2	0.030	0.045	0.270 x 0.445	114	40
2LS-1003	10	3	0.030	0.045	0.485	62	25
2LS-1003WG	10	3	0.030	0.045	0.485	223	40
2LS-1004	10	4	0.030	0.060	0.560	234	32
2LS-1005	10	5	0.030	0.060	0.620	287	32
2LS-1007	10	7	0.030	0.060	0.670	382	28
2LS-1009	10	9	0.030	0.060	0.760	457	28
2LS-1012	10	12	0.030	0.080	0.910	650	20
2LS-1202	12	2	0.030	0.045	0.245 x 0.400	86	30
2LS-1203	12	3	0.030	0.045	0.435	125	30
2LS-1203WG	12	3	0.030	0.045	0.435	125	30
2LS-1204	12	4	0.030	0.045	0.475	157	24
2LS-1205	12	5	0.030	0.045	0.520	194	24
2LS-1207	12	7	0.030	0.060	0.600	273	21
2LS-1209	12	9	0.030	0.060	0.700	323	21
2LS-1212	12	12	0.030	0.060	0.770	416	15
2LS-1402	14	2	0.030	0.045	0.230 x 0.365	62	25
2LS-1403	14	3	0.030	0.045	0.390	93	25
2LS-1404	14	4	0.030	0.045	0.425	116	20
2LS-1405	14	5	0.030	0.045	0.465	144	20
2LS-1407	14	7	0.030	0.045	0.510	187	17
2LS-1409	14	9	0.030	0.060	0.620	238	17
2LS-1412	14	12	0.030	0.060	0.700	303	12

Industrial Tray Cable

PVC-Nylon/PVC

PVC-nylon insulation
PVC jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTORS: Class B stranded bare copper per UL 83 and 62
2. INSULATION: Polyvinyl Chloride (PVC) per UL 62 for Type TFFN (18-16 AWG) or UL 83 for Type THWN or THHN wire, nominal thickness is 15 mils for sizes 18-12 AWG and 20 mils for 10 AWG
3. INSULATION JACKET: Each insulated conductor is jacketed with nylon meeting UL 62 for Type TFFN or UL 83 for Type THWN or THHN wire, minimum thickness is 4 mils
4. COLOR CODE: ICEA Method 1, Table E-2 (formerly K-2)
5. ASSEMBLY: Conductors are cabled with fillers where necessary to make round, two conductor cables are flat
6. OVERALL JACKET: Sunlight-resistant Polyvinyl Chloride (PVC) per UL 1277
7. STANDARDS: Meets UL 1277 requirements for Type TC cables having THWN or THHN (TFFN) conductors, cables are listed for direct burial and meet the IEEE 1202, IEEE 383 and UL 1685 Btu/hr flame tests. Three conductor and larger constructions meet UL 1277 requirements for Exposed Runs and are rated Type TC-ER (Tray Cable, Exposed Runs)
8. AMPACITY: Based on not more than three conductors in raceway or cable or earth with an ambient temperature of 30ºC per NEC Table 310.16, the values have been derated where applicable
9. TEMPERATURE: 90ºC
10. VOLTAGE: 600 V

APPLICATIONS

Designed for power and control, telemetering, relay control, traffic control, switching, lighting and signal transmission. May be used in Class I, Div. 2 and Class II, Div. 2 Hazardous Locations per NEC Art. 501 and 502. These cables also conform to Art. 392 "Cable Trays" and Art 336 "Power and Control Tray Cable."

Anixter No.	Conductor Size AWG	No. of Conductors	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2A-1802	18	2	0.045	0.184 x 0.275	41	14
2A-1803	18	3	0.045	0.288	50	14
2A-1804	18	4	0.045	0.312	60	11
2A-1805	18	5	0.045	0.338	71	11
2A-1807	18	7	0.045	0.376	89	9
2A-1810	18	10	0.045	0.438	121	9
2A-1812	18	12	0.045	0.461	156	7
2A-1815	18	15	0.045	0.507	169	7
2A-1819	18	19	0.060	0.578	220	7
2A-1837	18	37	0.060	0.760	390	7
2A-1602	16	2	0.045	0.202 x 0.330	49	18
2A-1603	16	3	0.045	0.312	66	18
2A-1604	16	4	0.045	0.333	79	14
2A-1605	16	5	0.045	0.368	94	14
2A-1606	16	6	0.045	0.399	109	14
2A-1607	16	7	0.045	0.399	118	12
2A-1608	16	8	0.045	0.430	133	12
2A-1609	16	9	0.045	0.461	147	12
2A-1612	16	12	0.045	0.505	178	9
2A-1615	16	15	0.060	0.587	243	9
2A-1619	16	19	0.060	0.633	296	9
2A-1625	16	25	0.060	0.723	376	8

Diameters and weights may vary among manufacturers.
Other conductor counts available upon request.
Composite power and control available upon request.
Unless otherwise specifically permitted in the NEC, the overcurrent protection shall not exceed 15 A for 14 AWG, 20 A for 12 AWG and 30 A for 10 AWG.
All part numbers require color code designation.
See Color Code Chart in the Technical Information section. For Method 1, Table E-1 color code add -1 to Part No. (e.g. 2A-1203-1).

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Industrial Tray Cable

(continued) PVC-Nylon/PVC

Anixter No.	Conductor Size AWG	No. of Conductors	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2A-1630	16	30	0.060	0.775	456	8
2A-1637	16	37	0.060	0.877	580	7
2A-1402	14	2	0.045	0.208 x 0.323	64	25
2A-1403	14	3	0.045	0.340	87	25
2A-1404	14	4	0.045	0.370	107	20
2A-1405	14	5	0.045	0.403	129	20
2A-1406	14	6	0.045	0.438	147	20
2A-1407	14	7	0.045	0.438	162	17
2A-1408	14	8	0.045	0.473	184	17
2A-1409	14	9	0.045	0.508	221	17
2A-1410	14	10	0.060	0.560	237	12
2A-1412	14	12	0.060	0.588	281	12
2A-1415	14	15	0.060	0.646	340	12
2A-1419	14	19	0.060	0.698	408	12
2A-1425	14	25	0.060	0.791	520	11
2A-1430	14	30	0.080	0.899	666	11
2A-1437	14	37	0.080	0.968	794	10
2A-1202	12	2	0.045	0.227 x 0.361	83	30
2A-1203	12	3	0.045	0.381	113	30
2A-1204	12	4	0.045	0.415	145	24
2A-1205	12	5	0.045	0.454	175	24
2A-1206	12	6	0.045	0.495	199	24
2A-1207	12	7	0.045	0.495	223	21
2A-1208	12	8	0.045	0.566	268	21
2A-1209	12	9	0.060	0.606	304	21
2A-1212	12	12	0.060	0.665	388	15
2A-1219	12	19	0.060	0.793	581	15
2A-1220	12	20	0.060	0.817	647	15
2A-1225	12	25	0.080	0.951	779	13
2A-1230	12	30	0.080	1.020	988	13
2A-1237	12	37	0.080	1.101	1,134	12
2A-1002	10	2	0.045	0.262 x 0.431	115	40
2A-1003	10	3	0.045	0.456	167	40
2A-1004	10	4	0.045	0.500	212	32
2A-1005	10	5	0.060	0.579	269	32
2A-1007	10	7	0.060	0.630	352	28
2A-1009	10	9	0.060	0.733	445	28
2A-1012	10	12	0.060	0.807	579	20

Diameters and weights may vary among manufacturers.
Other conductor counts available upon request.
Composite power and control available upon request.
Unless otherwise specifically permitted in the NEC, the overcurrent protection shall not exceed 15 A for 14 AWG, 20 A for 12 AWG and 30 A for 10 AWG.
All part numbers require color code designation.
See Color Code Chart in the Technical Information section. For Method 1, Table E-1 color code add -1 to Part No. (e.g. 2A-1203-1).

Industrial Tray Cable

PVC-Nylon/PVC Shielded

PVC-nylon insulation
Shielded
PVC jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTORS: Class B stranded bare copper per UL 83 and 62
2. INSULATION: Polyvinyl Chloride (PVC) per UL 62 for Type TFFN (16 AWG) or UL 83 for Type THWN or THHN wire, nominal thickness is 15 mils
3. INSULATION JACKET: Each insulated conductor is jacketed with nylon meeting UL 62 for Type TFFN or UL 83 for Type THWN or THHN wire, minimum thickness is 4 mils
4. COLOR CODE: ICEA Method 1, Table E-2 (formerly K-2)
5. ASSEMBLY: Conductors are cabled with fillers where necessary to make round
6. SHIELDING: Aluminum/polyester helically applied with tinned copper drain wire
7. OVERALL JACKET: Sunlight-resistant Polyvinyl Chloride (PVC) per UL 1277
8. STANDARDS: Meets UL 1277 requirements for Type TC cables having THWN or THHN (TFFN) conductors, cables are listed for direct burial and meet the IEEE 1202, IEE 383 and UL 1685. 70,000 Btu/hr flame tests
9. AMPACITY: Based on not more than three conductors in raceway or cable or earth with an ambient temperature of 30°C per NEC Table 310.16, the values have been derated where applicable
10. TEMPERATURE: 90ºC
11. VOLTAGE: 600 V

APPLICATIONS

Designed for power and control, telemetering, relay control, traffic control, switching, lighting and signal transmission. May be used in Class I, Div. 2 and Class II, Div. 2 Hazardous Locations per NEC Art. 501 and 502. These cables also conform to Art. 392 "Cable Trays" and Art. 336 "Power and Control Tray Cable."

Anixter No.	Conductor Size AWG	No. of Conductors	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2A-1602S	16	2	0.045	0.310	58	18
2A-1603S	16	3	0.045	0.325	73	18
2A-1604S	16	4	0.045	0.350	87	14
2A-1605S	16	5	0.045	0.380	102	14
2A-1607S	16	7	0.045	0.415	122	12
2A-1402S	14	2	0.045	0.330	75	25
2A-1403S	14	3	0.045	0.350	94	25
2A-1404S	14	4	0.045	0.380	115	20
2A-1405S	14	5	0.045	0.415	130	20
2A-1407S	14	7	0.045	0.450	167	17
2A-1202S	12	2	0.045	0.375	102	30
2A-1203S	12	3	0.045	0.395	130	30
2A-1204S	12	4	0.045	0.430	160	24
2A-1205S	12	5	0.045	0.470	184	24
2A-1207S	12	7	0.045	0.510	237	21

Diameters and weights may vary among manufacturers.
Other conductor counts available upon request.
Unless otherwise specifically permitted in the NEC, the overcurrent protection shall not exceed 15 A for 14 AWG and 20 A for 12 AWG.
All part numbers require color code designation.
See Color Code Chart in the Technical Information section. For Method 1, Table E-1 color code add -1 to Part No. (e.g. 2A-1602S-1).

Industrial Tray Cable

PVC-Nylon/Neoprene

Flexible strand
PVC-nylon insulation
Neoprene jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTORS: Bare, annealed copper per ASTM B-3, Class C stranded per ASTM B-8
2. INSULATION: Polyvinyl Chloride (PVC) with .004 in. extruded nylon overall
3. COLOR CODE: ICEA Method 1, Table E-2 (formerly K-2)
4. ASSEMBLY: Insulated conductors are cabled with fillers where necessary to make round, a binder tape is applied overall
5. OVERALL JACKET: Polychloroprene (Neoprene)
6. STANDARDS: Individual conductors meet the UL requirements for Type TFFN (18-16 AWG) or Type THHN/THWN (14-12 AWG), cables meet the UL 70,000 Btu and the ICEA T-29-520 210,000 Btu flame tests, finished cable meets the UL requirements for Type TC cable
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth with an ambient temperature of 30ºC per NEC Table 310.16, the values have been derated where applicable
8. TEMPERATURE: 90ºC
9. VOLTAGE: 600 V

APPLICATIONS

Used as tray cable where extra flexibility and confined space requirements are involved in the installation.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2ZN-1802	18	19	2	0.020	0.045	0.275	41	14
2ZN-1803	18	19	3	0.020	0.045	0.290	50	14
2ZN-1804	18	19	4	0.020	0.045	0.310	58	11
2ZN-1805	18	19	5	0.020	0.045	0.335	69	11
2ZN-1807	18	19	7	0.020	0.045	0.365	88	11
2ZN-1809	18	19	9	0.020	0.045	0.420	112	9
2ZN-1812	18	19	12	0.020	0.045	0.465	137	7
2ZN-1815	18	19	15	0.020	0.045	0.515	168	7
2ZN-1819	18	19	19	0.020	0.060	0.570	218	7
2ZN-1825	18	19	25	0.020	0.060	0.660	270	6
2ZN-1830	18	19	30	0.020	0.060	0.695	321	6
2ZN-1837	18	19	37	0.020	0.060	0.745	382	5
2ZN-1602	16	19	2	0.020	0.045	0.300	52	18
2ZN-1603	16	19	3	0.020	0.045	0.315	63	18
2ZN-1604	16	19	4	0.020	0.045	0.345	79	14
2ZN-1605	16	19	5	0.020	0.045	0.370	91	14
2ZN-1607	16	19	7	0.020	0.045	0.400	115	12
2ZN-1609	16	19	9	0.020	0.045	0.465	147	12
2ZN-1612	16	19	12	0.020	0.045	0.520	186	9
2ZN-1615	16	19	15	0.020	0.045	0.605	245	9
2ZN-1619	16	19	19	0.020	0.060	0.635	294	9
2ZN-1625	16	19	25	0.020	0.060	0.735	318	8
2ZN-1630	16	19	30	0.020	0.060	0.780	430	8
2ZN-1637	16	19	37	0.020	0.080	0.880	564	7

Industrial Tray Cable

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2ZN-1402	14	19	2	0.020	0.045	0.330	66	25
2ZN-1403	14	19	3	0.020	0.045	0.350	85	25
2ZN-1404	14	19	4	0.020	0.045	0.380	105	20
2ZN-1405	14	19	5	0.020	0.045	0.415	124	20
2ZN-1407	14	19	7	0.020	0.045	0.445	158	17
2ZN-1409	14	19	9	0.020	0.060	0.550	220	17
2ZN-1412	14	19	12	0.020	0.060	0.615	278	12
2ZN-1415	14	19	15	0.020	0.060	0.675	334	12
2ZN-1419	14	19	19	0.020	0.060	0.710	407	12
2ZN-1425	14	19	25	0.020	0.080	0.870	553	11
2ZN-1430	14	19	30	0.020	0.080	0.920	657	11
2ZN-1437	14	19	37	0.020	0.080	0.985	784	10
2ZN-1202	12	19	2	0.020	0.045	0.370	89	30
2ZN-1203	12	19	3	0.020	0.045	0.390	115	30
2ZN-1204	12	19	4	0.020	0.045	0.425	145	24
2ZN-1205	12	19	5	0.020	0.045	0.460	170	24
2ZN-1207	12	19	7	0.020	0.045	0.505	239	21
2ZN-1209	12	19	9	0.020	0.060	0.620	308	21
2ZN-1212	12	19	12	0.020	0.060	0.690	389	15
2ZN-1215	12	19	15	0.020	0.060	0.765	474	15
2ZN-1219	12	19	19	0.020	0.060	0.805	581	15
2ZN-1225	12	19	25	0.020	0.080	0.980	785	13
2ZN-1230	12	19	30	0.020	0.080	1.040	935	13
2ZN-1237	12	19	37	0.020	0.080	1.120	1,126	12

Diameters and weights may vary among manufacturers.
Other conductor counts available upon request.
Unless otherwise specifically permitted in the NEC, the overcurrent protection shall not exceed 15 A for 14 AWG and 20 A for 12 AWG.
All part numbers require a color code designation.
See Color Code Chart in the Technical Information section. For Method 1, Table E-1 color code add -1 to Part No. (e.g. 2ZN-1802-1).

Industrial Tray Cable

EPR/CPE Shielded Multipair

FR-EPR insulation
CPE jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTORS: Annealed, tinned copper in accordance with ASTM B-3 and B-33, concentric stranded, Class B per ASTM B-8
2. INSULATION: Ethylene Propylene Rubber (EPR), UL Rated VW-1 conductors
3. PAIRS/TRIADS: Each pair/triad is twisted and color coded: pairs black/white, triads black/white/red with alphanumeric designation (1-ONE)
4. ASSEMBLY: The individually shielded pairs are cabled together with non-hygroscopic and flame-retardant fillers as necessary to form a circular cross section of the assembly, a binding tape, when required, shall be applied over cable core
5. SHIELDING: The entire cable assembly is shielded with polyester backed/aluminum tape and tinned copper drain wire
6. OVERALL JACKET: Flame-retardant thermoplastic Chlorinated Polyethylene (CPE)
7. STANDARDS: Meets the requirements of UL 1277, finished cable passes UL 1685 70,000 Btu/hr and ICEA T-29-520, 210,000 Btu/hr flame tests. UL Listed as Type TC, sunlight resistant and rated for direct burial
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

For use indoors or outdoors and for installation in trays, troughs, channels, ducts and direct burial. Designed for telemetering, signals, relays and communication.

Anixter No.	Conductor Size AWG	No. of Pairs	No. of Triads	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
2MR-1601POS	16	1		0.025	0.045	0.318	59
2MR-1601TOS	16		1	0.025	0.045	0.336	75
2MR-1602POS	16	2		0.025	0.045	0.506	92
2MR-1604POS	16	4		0.025	0.060	0.627	220
2MR-1602SPOS	16	2		0.025	0.060	0.583	166
2MR-1603SPOS	16	3		0.025	0.060	0.591	189
2MR-1604SPOS	16	4		0.025	0.060	0.638	231
2MR-1606SPOS	16	6		0.025	0.080	0.775	295
2MR-1608SPOS	16	8		0.025	0.080	0.865	416
2MR-1612SPOS	16	12		0.025	0.080	1.047	581
2MR-1624SPOS	16	24		0.025	0.080	1.393	1,067
2MR-1636SPOS	16	36		0.025	0.110	1.735	1,419

POS-Pair(s) Overall Shield.
SPOS-Shielded Pair with Overall Shield.
TOS-Triad(s) Overall Shield.
Diameters and weights vary among manufacturers.

Shielded Substation Control Cable

Shielded Substation Control Cable

XLP insulation
CPE jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTORS: Class B stranded copper per ASTM B-3 and B-8
2. INSULATION: Cross-Linked Polyethylene (XLP) per ICEA S-73-532 (NEMA WC57), meets UL 44 requirements for VW-1, Type XHHW-2 conductors
3. COLOR CODE: ICEA Method 1, Table E-2 (formerly K-2) for 14-10 AWG, ICEA Method 4 (printed numbers) for 8 AWG
4. ASSEMBLY: Conductors are cabled with fillers where necessary to make round
5. SHIELDING: 0.005 in. (5-mil) longitudinally applied corrugated copper tape
6. OVERALL JACKET: Sunlight-resistant Chlorinated Polyethylene (CPE) per UL 1277
7. STANDARDS: Meets UL requirements for Type TC cables having XHHW-2 conductors, cables are listed for direct burial and meets the IEEE 1202, UL 1685 (70,000 Btu/hr), and ICEA T-29-520 (210,000 Btu/hr) vertical tray flame tests
8. AMPACITY: Based on not more than three conductors in raceway, cable or earth with an ambient temperature of 30ºC per 2008 NEC Table 310.16. The values have been derated where applicable
9. TEMPERATURE: 90ºC
10. VOLTAGE: 600 V

APPLICATIONS

Designed for power and control, telemetering, relay control, traffic control, switching, lighting and signal transmission in substation applications. May be used in Class 1, Div. 2 Hazardous Locations per 2008 NEC Art. 501. These cables also conform to 2008 NEC Article 336 Power and Control Tray Cable (Type TC).

Anixter No.	Conductor Size AWG/kcmil	No. of Conductors	Ground Wire Size AWG	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2XR-1412LCS-1	14	12	-----	0.030	0.060	0.76	360	12
2XR-1407LCS-1	14	7	-----	0.030	0.060	0.56	230	17
2XR-1405LCS-1	14	5	-----	0.030	0.060	0.52	168	20
2XR-1404LCS-1	14	4	-----	0.030	0.045	0.49	144	20
2XR-1403LCS-1	14	3	-----	0.030	0.045	0.45	121	25
2XR-1402LCS-1	14	2	-----	0.030	0.045	0.43	99	25
2XR-1212LCS-1	12	12	-----	0.030	0.060	0.83	476	15
2XR-1207LCS-1	12	7	-----	0.030	0.060	0.65	304	24
2XR-1205LCS-1	12	5	-----	0.030	0.060	0.57	240	24
2XR-1204LCS-1	12	4	-----	0.030	0.045	0.53	187	24
2XR-1203LCS-1	12	3	-----	0.030	0.045	0.49	154	30
2XR-1202LCS-1	12	2	-----	0.030	0.045	0.47	122	30
2XR-1012LCS-1	10	12	-----	0.030	0.080	0.98	700	20
2XR-1007LCS-1	10	7	-----	0.030	0.060	0.72	415	28
2XR-1005LCS-1	10	5	-----	0.060	0.080	0.98	320	32
2XR-1004LCS-1	10	4	-----	0.030	0.060	0.59	269	32
2XR-1003LCS-1	10	3	-----	0.030	0.060	0.55	220	40
2XR-1002LCS-1	10	1	-----	0.030	0.045	0.52	156	40
2XR-0804LCS-WG-1	8	4	1#10	0.045	0.060	0.77	430	44
2XR-0803LCS-WG-1	8	3	1#10	0.045	0.060	0.70	350	55

Diameters and weights may vary among manufacturers.
Other conductor counts available upon request.

20/10 Substation Control Cable

20/10 Substation Control Cable

Polyethylene-PVC insulation
PVC jacket
75°C, 600 V

SPECIFICATIONS

1. CONDUCTORS: Bare soft annealed copper per ASTM B-3, conductors are Class B concentric strand in accordance with ASTM B-8
2. INSULATION: 20 mils of high molecular weight polyethylene (HMWPE), covered with 10 mils of color-coded Polyvinyl Chloride (PVC)
3. COLOR CODE: ICEA Method 1, Table E-1 (formerly K-1)
4. ASSEMBLY: Insulated conductors are cabled with fillers as necessary, the two-conductor constructions are flat, all others round
5. OVERALL JACKET: Polyvinyl Chloride (PVC) compound, meeting the requirements of ICEA S-73-532 (NEMA WC57)
6. STANDARDS: Finished cable meets ICEA S-73-532 (NEMA WC57)
7. TEMPERATURE: 75ºC
8. VOLTAGE: 600 V

APPLICATIONS

For use in control circuits for utility substations, and various operating, relaying, telemetering, indicating, signalling and measuring circuits for industrial plants and processes. Suitable for use in duct, conduit and aerial.

Anixter No.	Conductor Size AWG	No. of Conductors	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
2B-1402	14	2	0.045	0.228 x 0.363	68
2B-1403	14	3	0.045	0.385	109
2B-1404	14	4	0.045	0.420	131
2B-1405	14	5	0.045	0.464	152
2B-1407	14	7	0.045	0.503	162
2B-1409	14	9	0.060	0.610	193
2B-1410	14	10	0.060	0.665	291
2B-1412	14	12	0.060	0.684	326
2B-1414	14	14	0.060	0.720	336
2B-1415	14	15	0.060	0.764	400
2B-1419	14	19	0.060	0.791	507
2B-1425	14	25	0.080	1.000	611
2B-1430	14	30	0.080	1.035	691
2B-1437	14	37	0.080	1.118	822
2B-1202	12	2	0.045	0.247 x 0.401	98
2B-1203	12	3	0.045	0.426	139
2B-1204	12	4	0.045	0.466	178
2B-1205	12	5	0.060	0.545	239
2B-1207	12	7	0.060	0.587	293
2B-1208	12	8	0.060	0.646	331
2B-1212	12	12	0.060	0.758	447
2B-1215	12	15	0.080	0.907	605
2B-1219	12	19	0.080	0.929	715
2B-1225	12	25	0.080	1.094	828
2B-1237	12	37	0.080	1.251	1,159
2B-1002	10	2	0.045	0.270 x 0.455	118
2B-1003	10	3	0.045	0.480	186
2B-1004	10	4	0.060	0.556	265
2B-1005	10	5	0.060	0.611	312
2B-1007	10	7	0.060	0.663	400

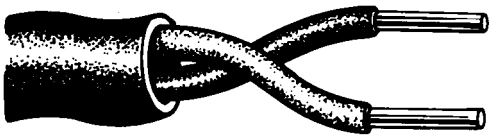
20/10 Substation Control Cable

Anixter No.	Conductor Size AWG	No. of Conductors	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
2B-1008	10	8	0.060	0.727	460
2B-1009	10	9	0.060	0.770	446
2B-1012	10	12	0.080	0.912	691
2B-0902	9	2	0.045	0.290 x 0.490	132
2B-0903	9	3	0.045	0.520	188
2B-0904	9	4	0.060	0.600	258
2B-0905	9	5	0.060	0.660	313
2B-0907	9	7	0.060	0.720	418
2B-0909	9	9	0.060	0.845	530

Diameters and weights may vary among manufacturers.
Other conductor counts available upon request.

Instrumentation Cable - PLTC 300 V

Unshielded Multiconductor



BELDEN
PVC insulation
PVC jacket
105°C, 300 V

SPECIFICATIONS

1. CONDUCTORS: Stranded, tinned copper
2. INSULATION: 105°C Polyvinyl Chloride (PVC)
3. OVERALL JACKET: Sunlight-resistant chrome or gray colored Polyvinyl Chloride (PVC)
4. STANDARDS: Meets Article 725 of the NEC for Type PLTC and UL Subject 13, finished cable passes CSA FT 4 and UL 1685 flame tests
5. TEMPERATURE: 105°C
6. VOLTAGE: 300 V

APPLICATIONS

For use as instrumentation cable inside or outside in control applications. Suitable for installation in trays, troughs, channels, conduit, wireways and for aerial use when supported by a messenger. Suitable for Class 2 and 3 electrical circuits per NEC Article 725.

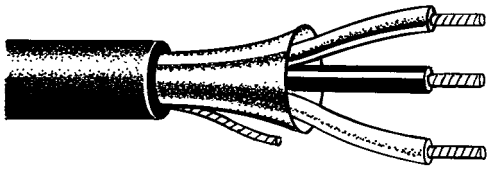
Anixter No.	Conductor Size AWG	No. of Conductors	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
323-011-2201-B	22	2	0.20	19
323-011-2001-B	20	2	0.21	23
323-011-1801-B	18	2	0.23	28
323-011-1601-B	16	2	0.26	37
323-011-1401-B	14	2	0.32	60
323-011-1201-B	12	2	0.42	95
323-012-2203-B	22	3	0.21	24
323-012-2003-B	20	3	0.23	28
323-012-1803-B	18	3	0.25	37
323-012-1603-B	16	3	0.27	50
323-012-1403-B	14	3	0.34	80

Color Code for two conductor: black and red.
Color Code for three conductor: black, red and white.

Instrumentation Cable - PLTC 300 V

Shielded Multiconductor

BELDEN
PVC insulation
PVC jacket
105°C, 300 V



SPECIFICATIONS

1. CONDUCTORS: Stranded, tinned copper
2. INSULATION: 105°C Polyvinyl Chloride (PVC)
3. ASSEMBLY: Cabled with an overall aluminum/polyester shield and stranded tinned copper drain wire
4. OVERALL JACKET: Sunlight-resistant chrome or gray colored Polyvinyl Chloride (PVC)
5. STANDARDS: Meets Article 725 of the NEC for Type PLTC and UL Subject 13, finished cable passes CSA FT4 and UL 1685 flame tests
6. TEMPERATURE: 105°C
7. VOLTAGE: 300 V

APPLICATIONS

For use as instrumentation cable inside or outside in control applications. Suitable for installation in trays, troughs, channels, conduit, wireways and for aerial use when supported by a messenger. Suitable for Class 2 and 3 electrical circuits per NEC Article 725.

Anixter No.	Conductor Size AWG	No. of Conductors	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
323-023-2201-B	22	2	0.20	25
323-023-2001-B	20	2	0.22	25
323-023-1801-B	18	2	0.24	33
323-023-1601-B	16	2	0.26	38
323-023-1401-B	14	2	0.33	70
323-023-1201-B	12	2	0.43	112
323-024-2203-B	22	3	0.21	27
323-024-2003-B	20	3	0.23	32
323-024-1803-B	18	3	0.25	41
323-024-1603-B	16	3	0.28	56
323-024-1403-B	14	3	0.35	90

The voltage rating of the cable will not be printed on the cable jacket, as indicated in the marking requirements of UL Subject 13.
Color Code for two conductor: black and red.
Color Code for three conductor: black, red and white.

Instrumentation Cable - PLTC 300 V

Overall Shielded Single and Multipair

PVC insulation
PVC jacket
105°C, 300 V

SPECIFICATIONS

1. CONDUCTORS: Stranded, bare copper
2. INSULATION: 105°C Polyvinyl Chloride (PVC)
3. PAIRS: Pairs are twisted with a suitable lay to reduce magnetic interference and color coded black and white, each pair is printed numerically to ensure easy identification
4. ASSEMBLY: The individual pairs are cabled together to form round completed assembly, overall aluminum/polyester foil shield with stranded tinned copper drain wire
5. OVERALL JACKET: Flame-retardant, sunlight-resistant, black PVC, a rip cord is included for jacket removal
6. STANDARDS: Meets Article 725 of the NEC for Type PLTC and UL Subject 13, finished cable meets IEEE 1202 flame test
7. TEMPERATURE: 105°C
8. VOLTAGE: 300 V

APPLICATIONS

For use as instrumentation cable inside or outside in control applications. Suitable for installation in trays, troughs, channels, conduit, wireways and for aerial use when supported by a messenger. Suitable for Class 2 and 3 electrical circuits per NEC Article 725.

Anixter No.	Conductor Size AWG	No. of Pairs	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
323-221-2001	20	1	0.23	24
323-221-2002	20	2	0.38	58
323-221-2003	20	3	0.35	66
323-221-2004	20	4	0.42	87
323-221-2006	20	6	0.46	114
323-221-2008	20	8	0.50	139
323-221-2010	20	10	0.57	165
323-221-2012	20	12	0.59	190
323-221-2016	20	16	0.67	250
323-221-2020	20	20	0.71	308
323-221-2024	20	24	0.80	351
323-221-2036	20	36	0.83	480
323-221-2050	20	50	1.10	660
323-221-1801	18	1	0.26	45
323-221-1802	18	2	0.44	83
323-221-1803	18	3	0.45	100
323-221-1804	18	4	0.48	125
323-221-1806	18	6	0.53	149
323-221-1808	18	8	0.57	200
323-221-1810	18	10	0.62	239
323-221-1812	18	12	0.66	295
323-221-1816	18	16	0.76	370
323-221-1820	18	20	0.62	450
323-221-1824	18	24	0.89	530
323-221-1836	18	36	1.02	780
323-221-1850	18	50	1.29	1,230
323-221-1601	16	1	0.26	42
323-221-1602	16	2	0.46	103
323-221-1603	16	3	0.48	130
323-221-1604	16	4	0.51	160

Instrumentation Cable - PLTC 300 V

Anixter No.	Conductor Size AWG	No. of Pairs	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
323-221-1606	16	6	0.59	203
323-221-1608	16	8	0.67	280
323-221-1610	16	10	0.72	322
323-221-1612	16	12	0.77	400
323-221-1616	16	16	0.86	510
323-221-1620	16	20	0.95	640
323-221-1624	16	24	1.05	750
323-221-1636	16	36	1.23	1,110
323-221-1650	16	50	1.60	1,352

The voltage rating of the cable will not be printed on the cable jacket, as indicated in the marking requirements of UL Subject 13.
Other pair counts available upon request.
Diameters and weights may vary among manufacturers.

Instrumentation Cable - PLTC 300 V

Individually Shielded Multipair

BELDEN
PVC insulation
PVC jacket
105°C, 300 V

SPECIFICATIONS

1. CONDUCTORS: Stranded, tinned copper
2. INSULATION: 105°C Polyvinyl Chloride (PVC)
3. COLOR CODE: Pairs color coded black, red and numbered
4. ASSEMBLY: Twisted pairs each with an overall aluminum/polyester shield and stranded tinned copper drain wire
5. OVERALL JACKET: Sunlight-resistant Chrome Polyvinyl chloride (PVC) jacket
6. STANDARDS: Meets Article 725 of the NEC for Type PLTC and UL 13, finished cable passes CSA FT4 and UL 1685 vertical tray flame tests
7. TEMPERATURE: 105°C
8. VOLTAGE: 300 V

APPLICATIONS

For use as instrumentation cable inside or outside in control applications. Suitable for installation in trays, troughs, channels, conduits, wireways and for aerial use when supported by a messenger. Suitable for Class 2 and 3 electrical circuits per NEC Article 725.

Anixter No.	Conductor Size AWG	No. of Pairs	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
323-035-2202-B	22	2	0.32	48
323-035-2203-B	22	3	0.33	60
323-035-2204-B	22	4	0.36	73
323-035-2206-B	22	6	0.44	114
323-035-2209-B	22	9	0.50	150
323-035-2211-B	22	11	0.55	174
323-035-2219-B	22	19	0.69	288
323-035-2251-B	22	51	1.05	745
323-036-1802-B	18	2	0.38	70
323-036-1803-B	18	3	0.42	100
323-036-1804-B	18	4	0.49	124
323-036-1806-B	18	6	0.55	177
323-036-1809-B	18	9	0.67	262
323-036-1811-B	18	11	0.69	307
323-036-1815-B	18	15	0.77	393

The voltage rating of the cable will not be printed on the cable jacket, as indicated in the marking requirements of UL Subject 13.
Other pair counts available upon request.

Instrumentation Cable - PLTC 300 V

Overall Shielded Multipair

BELDEN
PVC insulation
PVC jacket
105°C, 300 V

SPECIFICATIONS

1. CONDUCTORS: Stranded, tinned copper
2. INSULATION: 105°C Polyvinyl Chloride (PVC)
3. COLOR CODE: Pairs color coded black, red and numbered
4. ASSEMBLY: Pairs are cabled with an overall aluminum/polyester shield and stranded tinned copper drain wire
5. OVERALL JACKET: Sunlight-resistant Polyvinyl Chloride (PVC)
6. STANDARDS: Meets Article 725 of the NEC for Type PLTC and UL 13, finished cable passes CSA FT4 and UL 1685 vertical tray flame tests
7. TEMPERATURE: 105°C
8. VOLTAGE: 300 V

APPLICATIONS

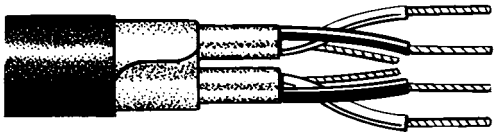
For use as instrumentation cable inside or outside in control applications. Suitable for installation in trays, troughs, channels, conduit, wireways and for aerial use when supported by a messenger. Suitable for Class 2 and 3 electrical circuits per NEC Article 725.

Anixter No.	Conductor Size AWG	No. of Pairs	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
323-023-2202-B	22	2	0.31	43
323-023-2203-B	22	3	0.33	56
323-023-2204-B	22	4	0.35	64
323-023-2206-B	22	6	0.43	93
323-023-2209-B	22	9	0.49	123
323-023-2211-B	22	11	0.54	145
323-023-2215-B	22	15	0.59	179
323-023-2219-B	22	19	0.63	223
323-023-2227-B	22	27	0.74	344
323-035-1802-B	18	2	0.36	66
323-035-1803-B	18	3	0.40	90
323-035-1804-B	18	4	0.45	110
323-035-1806-B	18	6	0.48	145
323-035-1809-B	18	9	0.56	202
323-035-1811-B	18	11	0.68	254
323-035-1815-B	18	15	0.75	322

The voltage rating of the cable will not be printed on the cable jacket, as indicated in the marking requirements of UL Subject 13.
Other pair counts available upon request.

Instrumentation Cable - PLTC 300 V

Individual and Overall Shielded Multipair



PVC insulation
PVC jacket
105°C, 300 V

SPECIFICATIONS

1. CONDUCTORS: Bare copper, Class B, concentric stranded
2. INSULATION: 105°C Polyvinyl Chloride (PVC)
3. PAIRS: Each pair is twisted with a suitable lay to reduce magnetic interference and color coded black and white, each pair is also printed numerically to ensure easy identification, an aluminum/polyester foil shield with stranded tinned copper drain wire is applied
4. ASSEMBLY: The individual pairs are cabled together to form a substantially circular cross-section of the completed assembly, an aluminum/polyester foil shield with stranded tinned copper drain wire is applied overall
5. OVERALL JACKET: Flame-retardant, sunlight-resistant, black Polyvinyl Chloride (PVC) jacket
6. STANDARDS: Meets Article 725 of the NEC for Type PLTC and UL 13, finished cable meets IEEE 1202 and UL 1685 vertical tray flame tests
7. TEMPERATURE: 105°C
8. VOLTAGE: 300 V

APPLICATIONS

For use as instrumentation cable inside or outside in control applications. Individually and overall shielded for greater isolation and noise reduction. Suitable for installation in trays, troughs, conduit, wireways and for aerial use when supported by a messenger. Suitable for Class 2 and 3 electrical circuits per NEC Article 725.

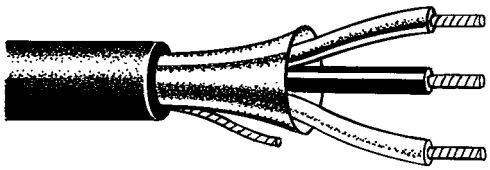
Anixter No.	Conductor Size AWG	No. of Pairs	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
323-231-2002	20	2	0.42	61
323-231-2004	20	4	0.44	105
323-231-2006	20	6	0.53	145
323-231-2008	20	8	0.56	170
323-231-2012	20	12	0.69	248
323-231-2016	20	16	0.77	315
323-231-2024	20	24	0.95	475
323-231-2036	20	36	1.06	660
323-231-2050	20	50	1.28	880
323-231-1802	18	2	0.46	91
323-231-1803	18	3	0.47	122
323-231-1804	18	4	0.51	148
323-231-1806	18	6	0.60	210
323-231-1808	18	8	0.69	270
323-231-1812	18	12	0.84	380
323-231-1816	18	16	0.94	490
323-231-1824	18	24	1.13	700
323-231-1836	18	36	1.26	944
323-231-1602	16	2	0.48	131
323-231-1603	16	3	0.49	135
323-231-1604	16	4	0.55	195
323-231-1606	16	6	0.59	276
323-231-1608	16	8	0.76	350
323-231-1612	16	12	0.91	520
323-231-1616	16	16	1.05	660
323-231-1624	16	24	1.22	970
323-231-1636	16	36	1.41	1,318

The voltage rating of the cable will not be printed on the cable jacket, as indicated in the marking requirements of UL Subject 13.
Other pair counts available upon request.
Diameters and weights may vary among manufacturers.

Instrumentation Cable - PLTC 300 V

Overall Shielded Single and Multitriad

PVC insulation
PVC jacket
105°C, 300 V



SPECIFICATIONS

1. CONDUCTORS: Bare copper, Class B, concentric stranded
2. INSULATION: 105°C Polyvinyl Chloride (PVC)
3. TRIADS: Each triad is twisted with a suitable lay to reduce magnetic interference and color coded black, white and red, each triad is also printed numerically to ensure easy identification
4. ASSEMBLY: The individual triads are cabled together to form a substantially circular cross-section of the completed assembly, overall aluminum/polyester foil shield with stranded tinned copper drain wire
5. OVERALL JACKET: Flame-retardant, sunlight-resistant, black Polyvinyl Chloride (PVC)
6. STANDARDS: Meets Article 725 of the NEC for Type PLTC and UL 13, finished cable meets IEEE 1202 and UL 1685 vertical tray flame tests
7. TEMPERATURE: 105°C
8. VOLTAGE: 300 V

APPLICATIONS

For use as instrumentation cable inside or outside in control applications. Suitable for installation in trays, troughs, channels, conduit, wireways and for aerial use when supported by a messenger. Suitable for Class 2 and 3 electrical circuits per NEC Article 725.

Anixter No.	Conductor Size AWG	No. of Triads	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
323-321-2001	20	1	0.30	30
323-321-2004	20	4	0.44	119
323-321-2012	20	12	0.69	282
323-321-2016	20	16	0.76	356
323-321-2024	20	24	0.93	560
323-321-2036	20	36	1.19	745
323-321-1801	18	1	0.32	45
323-321-1804	18	4	0.53	170
323-321-1812	18	12	0.86	430
323-321-1816	18	16	0.99	580
323-321-1824	18	24	1.20	700
323-321-1836	18	36	1.45	1,368
323-321-1601	16	1	0.35	53
323-321-1604	16	4	0.57	210
323-321-1612	16	12	0.97	600
323-321-1616	16	16	1.14	750
323-321-1636	16	36	1.52	1,590

The voltage rating of the cable will not be printed on the cable jacket, as indicated in the marking requirements of UL Subject 13.
Other triad counts available upon request.
Diameters and weights may vary among manufacturers.

Instrumentation Cable - PLTC 300 V

Individual and Overall Shielded Multitriad

PVC insulation
PVC jacket
105°C, 300 V

SPECIFICATIONS

1. CONDUCTORS: Bare copper, Class B, concentric stranded
2. INSULATION: 105°C Polyvinyl Chloride (PVC)
3. TRIADS: Each triad is twisted with a suitable lay to reduce magnetic interference and color coded black, each triad is also printed numerically to ensure easy identification, an aluminum/polyester foil shield with stranded tinned copper drain wire is applied
4. ASSEMBLY: The individual triads are cabled together to form a substantially circular cross-section of the completed assembly, an aluminum/polyester foil shield with stranded tinned copper drain wire is applied overall
5. OVERALL JACKET: Flame-retardant, sunlight-resistant, black Polyvinyl Chloride (PVC) jacket
6. STANDARDS: Meets Article 725 of the NEC for Type PLTC and UL 13, finished cable meets IEEE 1202 and UL 1685 vertical tray flame tests
7. TEMPERATURE: 105°C
8. VOLTAGE: 300 V

APPLICATIONS

For use as instrumentation cable inside or outside in control applications. Suitable for installation in trays, troughs, channels, conduit, wireways and for aerial use when supported by a messenger. Suitable for Class 2 and 3 electrical circuits per NEC Article 725.

Anixter No.	Conductor Size AWG	No. of Triads	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
323-331-2004	20	4	0.50	128
323-331-2008	20	8	0.57	220
323-331-2012	20	12	0.78	323
323-331-2016	20	16	0.87	411
323-331-2024	20	24	0.97	675
323-331-2036	20	36	1.27	900
323-331-1804	18	4	0.54	182
323-331-1808	18	8	0.67	410
323-331-1812	18	12	1.04	590
323-331-1816	18	16	1.16	780
323-331-1824	18	24	1.26	850
323-331-1836	18	36	1.58	1,850
323-331-1604	16	4	0.61	240
323-331-1612	16	12	1.04	690

The voltage rating of the cable will not be printed on the cable jacket, as indicated in the marking requirements of UL Subject 13.
Other triad counts available upon request.
Diameters and weights may vary among manufacturers.

Instrumentation Cable - TC 600 V

PVC-Nylon/PVC Shielded Multipair

PVC-nylon insulation
PVC jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTORS: Bare copper, Class B stranded per ASTM B-8
2. INSULATION: Polyvinyl Chloride (PVC) and nylon, pairs are color coded black and white and numbered, triads are black, white, red and numbered
3. SHIELDING: Tinned copper, where applicable, individual drain wires are used, also of seven-strand, tinned copper construction
4. OVERALL JACKET: Sunlight-resistant Polyvinyl Chloride (PVC)
5. STANDARDS: Meets the requirements of UL 1277 and passes the UL 1685 vertical tray flame test
6. TEMPERATURE: 90°C
7. VOLTAGE: 600 V

APPLICATIONS

For use indoors or outdoors and for installation in trays, troughs, channels, ducts and direct burial. Designed for telemetering, signals, relays and communication.

Anixter No.	Conductor Size AWG	No. of Pairs	No. of Triads	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
2AS-1801POS	18	1		0.045	0.280	41
2AS-1801TOS	18		1	0.045	0.300	49
2AS-1802POS	18	2		0.045	0.440	72
2AS-1803POS	18	3		0.045	0.465	90
2AS-1804POS	18	4		0.045	0.505	110
2AS-1806POS	18	6		0.060	0.598	167
2AS-1808POS	18	8		0.060	0.652	204
2AS-1812POS	18	12		0.060	0.770	277
2AS-1816POS	18	16		0.080	0.905	387
2AS-1824POS	18	24		0.080	1.055	532
2AS-1836POS	18	36		0.080	1.190	739
2AS-1802SPOS	18	2		0.045	0.445	84
2AS-1803SPOS	18	3		0.045	0.480	106
2AS-1804SPOS	18	4		0.045	0.555	145
2AS-1806SPOS	18	6		0.060	0.639	203
2AS-1808SPOS	18	8		0.060	0.700	250
2AS-1812SPOS	18	12		0.060	0.845	350
2AS-1816SPOS	18	16		0.080	0.960	475
2AS-1824SPOS	18	24		0.080	1.130	670
2AS-1836SPOS	18	36		0.080	1.345	957
2AS-1601POS	16	1		0.045	0.300	52
2AS-1601TOS	16		1	0.045	0.315	63
2AS-1602POS	16	2		0.045	0.470	93
2AS-1603POS	16	3		0.045	0.505	117
2AS-1604POS	16	4		0.060	0.575	160
2AS-1606POS	16	6		0.060	0.660	282
2AS-1608POS	16	8		0.060	0.745	330
2AS-1612POS	16	12		0.080	0.825	370
2AS-1616POS	16	16		0.020	0.970	513
2AS-1624POS	16	24		0.080	1.320	740
2AS-1636POS	16	36		0.080	1.285	1,290
2AS-1602SPOS	16	2		0.045	0.495	105
2AS-1603SPOS	16	3		0.045	0.520	137
2AS-1604SPOS	16	4		0.060	0.600	188

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Instrumentation Cable - TC 600 V

(continued) PVC-Nylon/PVC Shielded Multipair

Anixter No.	Conductor Size AWG	No. of Pairs	No. of Triads	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
2AS-1606SPOS	16	6		0.060	0.685	270
2AS-1608SPOS	16	8		0.060	0.745	337
2AS-1612SPOS	16	12		0.080	0.940	498
2AS-1616SPOS	16	16		0.080	1.055	635
2AS-1624SPOS	16	24		0.080	1.260	903
2AS-1636SPOS	16	36		0.080	1.480	1,290
2AS-1401POS	14	1		0.045	0.360	65
2AS-1401TOS	14		1	0.045	0.360	94

POS-Pair(s) Overall Shield.
SPOS-Shielded Pairs with Overall Shield.
TOS-Triad(s) Overall Shield.
Diameters and weights may vary among manufacturers.

Instrumentation Cable - TC 600 V

XLP/TS-CPE Shielded Multipair

XLP insulation
TS-CPE jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTORS: Annealed, tinned copper in accordance with ASTM B-3 and B-33, concentric stranded, Class B per ASTM B-8
2. INSULATION: Cross-Linked Polyethylene (XLP), per ICEA S-82-552 (NEMA WC55), UL Rated VW-1 conductors
3. PAIRS/TRIADS: Each pair/triad is twisted and color coded: pairs black/white, triads black/white/red with alphanumeric designation (1-ONE)
4. ASSEMBLY: The individually shielded pairs are cabled together with non-hygroscopic and flame-retardant fillers as necessary to form a circular cross section of the assembly, a binding tape, when required, shall be applied over cable core
5. SHIELDING: The entire cable assembly is shielded with polyester backed/aluminum tape and tinned copper drain wire
6. OVERALL JACKET: Flame-retardant Thermoset Chlorinated Polyethylene (TS-CPE) or Chlorosulfonated Polyethylene (CSPE)
7. STANDARDS: Meets the requirements of UL 1277, finished cable passes UL 1685 70,000 Btu and ICEA T-29-520 210,000 Btu flame tests, UL Listed as sunlight resistant and rated for direct burial
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

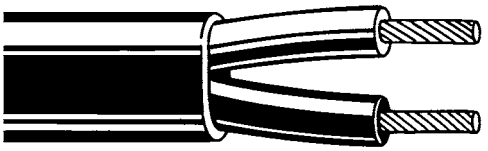
For use indoors or outdoors and for installation in trays, troughs, channels, ducts and direct burial. Designed for telemetering, signals, relays and communication.

Anixter No.	Conductor Size AWG	No. of Pairs	No. of Triads	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
2RH-1601POS	16	1		0.030	0.045	0.340	66
2RH-1601TOS	16		1	0.030	0.045	0.365	85
2RH-1602POS	16	2		0.030	0.045	0.590	116
2RH-1603POS	16	3		0.030	0.060	0.640	185
2RH-1604POS	16	4		0.030	0.060	0.690	229
2RH-1606POS	16	6		0.030	0.060	0.735	320
2RH-1608POS	16	8		0.030	0.080	0.920	443
2RH-1612POS	16	12		0.030	0.080	1.085	611
2RH-1624POS	16	24		0.030	0.080	1.475	1,130
2RH-1636POS	16	36		0.030	0.080	1.600	1,728
2RH-1602SPOS	16	2		0.030	0.060	0.595	130
2RH-1603SPOS	16	3		0.030	0.060	0.640	185
2RH-1604SPOS	16	4		0.030	0.060	0.690	230
2RH-1606SPOS	16	6		0.030	0.060	0.735	320
2RH-1608SPOS	16	8		0.030	0.080	0.920	443
2RH-1612SPOS	16	12		0.030	0.080	1.085	611
2RH-1624SPOS	16	24		0.030	0.080	1.475	1,130
2RH-1636SPOS	16	36		0.030	0.110	1.600	1,728
2RH-1401POS	14	1		0.030	0.045	0.375	75
2RH-1401TOS	14		1	0.030	0.045	0.375	105

POS-Pair(s) Overall Shield.
SPOS-Shielded Pair with Overall Shield.
TOS-Triad(s) Overall Shield.
Diameters and weights may vary among manufacturers.

Thermocouple Cable

High-temperature Type E



Positive leg: Chromel

Negative leg: Constantan

SPECIFICATIONS

1. ASSEMBLY: All constructions are duplex (parallel)
2. COLOR CODE: Standard ISA/ANSI color coding is used on all thermocouple wire when type of insulation permits. In color coding, the right is reserved to include a tracer to identify the ISA/ANSI type, ISA/ANSI Type E Color Code: positive leg (Chromel) is purple, negative leg (Constantan) is red and the jacket is brown
3. STANDARD: All products listed below are calibrated to the standard limits of error as stated in ISA/ANSI MC96.1
4. TEMPERATURE: Temperature ratings listed below are continuous, single-reading (peak) temperature ratings are available upon request

APPLICATIONS

Type E wires can be used in inert, oxidizing or reducing atmospheres.

FEP INSULATION/JACKET TEMPERATURE RATED: 200°C

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-660-2011E	20	Solid	2	FEP	FEP	0.072 x 0.124	Yes
328-660-2011E-B	20	Solid	2	FEP	FEP	0.076 x 0.128	Yes
328-660-1611E	16	Solid	2	FEP	FEP	0.087 x 0.154	Yes

FUSED TFE TAPE INSULATION/JACKET TEMPERATURE RATED: 260°C

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-220-2411E	24	Solid	2	Fused TFE tape	Fused TFE tape	0.060 x 0.096	Yes
328-220-2011E	20	Solid	2	Fused TFE tape	Fused TFE tape	0.072 x 0.120	Yes

POLYIMIDE INSULATION/JACKET TEMPERATURE RATED: 260°C

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-550-2411E	24	Solid	2	Polyimide	Polyimide	0.040 x 0.070	Yes
328-550-2011E	20	Solid	2	Polyimide	Polyimide	0.052 x 0.094	Yes

GLASS BRAID INSULATION/JACKET TEMPERATURE RATED: 510°C

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-110-3011E	30	Solid	2	Glass braid	Glass braid	0.030 x 0.048	Yes
328-110-2411E	24	Solid	2	Glass braid	Glass braid	0.040 x 0.068	Yes
328-110-2421E	24	Stranded	2	Glass braid	Glass braid	0.048 x 0.084	Yes
328-110-2011E	20	Solid	2	Glass braid	Glass braid	0.056 x 0.100	Yes
328-110-2021E	20	Stranded	2	Glass braid	Glass braid	0.060 x 0.108	Yes
328-110-1611E	16	Solid	2	Glass braid	Glass braid	0.085 x 0.150	Yes
328-110-1411E	14	Solid	2	Glass braid	Glass braid	0.100 x 0.180	Yes

HIGH-TEMPERATURE GLASS INSULATION/JACKET TEMPERATURE RATED: 704°C

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-330-2411E	24	Solid	2	Hi-temp glass	Hi-temp glass	0.064 x 0.102	Yes
328-330-2011E	20	Solid	2	Hi-temp glass	Hi-temp glass	0.084 x 0.142	Yes

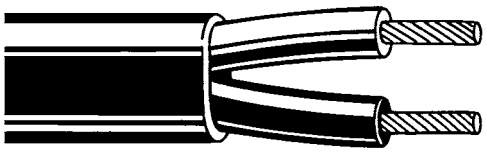
VITREOUS SILICA INSULATION/JACKET TEMPERATURE RATED: 982°C

ANSI Certificates of Compliance and calibration reports available upon request. Stainless steel, tinned copper and Inconel overbraids may be added to the constructions listed above. Diameters may vary among manufacturers.

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-440-2411E	24	Solid	2	Vitreous silica	Vitreous silica	0.086 x 0.138	No
328-440-2011E	20	Solid	2	Vitreous silica	Vitreous silica	0.098 x 0.162	No

Thermocouple Cable

High-temperature Type J



Positive leg: Iron

Negative leg: Constantan

SPECIFICATIONS

1. ASSEMBLY: All constructions are duplex (parallel)
2. COLOR CODE: Standard ISA/ANSI color coding is used on all thermocouple wire when type of insulation permits. In color coding, the right is reserved to include a tracer to identify the ISA/ANSI type, ISA/ANSI Type J color code: positive leg (Iron) is white, negative leg (Constantan) is red and the jacket is brown
3. STANDARD: All products listed below are calibrated to the standard limits of error as stated in ISA/ANSI MC96.1
4. TEMPERATURE: Temperature ratings listed below are continuous, single-reading (peak) temperature ratings are available upon request

APPLICATIONS

For use in reducing, vacuum, and inert environments.

FEP INSULATION/JACKET TEMPERATURE RATED: 204°C

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-660-2011J	20	Solid	2	FEP	FEP	0.072 x 0.124	Yes
328-660-1611J	16	Solid	2	FEP	FEP	0.087 x 0.154	Yes

FUSED TFE TAPE INSULATION/JACKET TEMPERATURE RATED: 260°C

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-220-2411J	24	Solid	2	Fused TFE tape	Fused TFE tape	0.060 x 0.096	Yes
328-220-2011J	20	Solid	2	Fused TFE tape	Fused TFE tape	0.072 x 0.120	Yes

KAPTON INSULATION/JACKET TEMPERATURE RATED: 316°C

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-550-2411J	24	Solid	2	Polyimide	Polyimide	0.040 x 0.070	Yes
328-550-2011J	20	Solid	2	Polyimide	Polyimide	0.052 x 0.094	Yes

GLASS BRAID INSULATION/JACKET TEMPERATURE RATED: 482°C

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-110-3011J	30	Solid	2	Glass braid	Glass braid	0.030 x 0.048	Yes
328-110-2411J	24	Solid	2	Glass braid	Glass braid	0.040 x 0.068	Yes
328-110-2421J	24	Stranded	2	Glass braid	Glass braid	0.048 x 0.084	Yes
328-110-2011J	20	Solid	2	Glass braid	Glass braid	0.056 x 0.100	Yes
328-110-2021J	20	Stranded	2	Glass braid	Glass braid	0.060 x 0.108	Yes
328-110-1611J	16	Solid	2	Glass braid	Glass braid	0.085 x 0.150	Yes
328-110-1411J	14	Solid	2	Glass braid	Glass braid	0.100 x 0.180	Yes

HIGH-TEMPERATURE GLASS INSULATION/JACKET TEMPERATURE RATED: 704°C

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-330-2411J	24	Solid	2	Hi-temp glass	Hi-temp glass	0.064 x 0.102	Yes
328-330-2011J	20	Solid	2	Hi-temp glass	Hi-temp glass	0.084 x 0.142	Yes

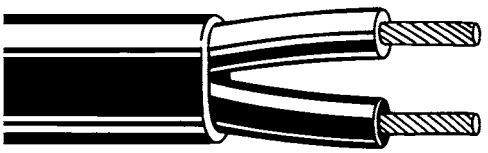
VITREOUS SILICA INSULATION/JACKET TEMPERATURE RATED: 871°C

ANSI Certificates of Compliance and calibration reports available upon request. Stainless steel, tinned copper and Inconel overbraids may be added to the constructions listed above. Diameters may vary among manufacturers.

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-440-2411J	24	Solid	2	Vitreous silica	Vitreous silica	0.086 x 0.138	No
328-440-2011J	20	Solid	2	Vitreous silica	Vitreous silica	0.098 x 0.162	No

Thermocouple Cable

High-temperature Type K



Type K
Positive leg: Chromel
Negative leg: Alumel

SPECIFICATIONS

1. ASSEMBLY: All constructions are duplex (parallel)
2. COLOR CODE: Standard ISA/ANSI color coding is used on all thermocouple wire when type of insulation permits. In color coding, the right is reserved to include a tracer to identify the ANSI type, ISA/ANSI Type K color code: positive leg (Chromel) is yellow, negative leg (Alumel) is red, jacket is brown
3. STANDARD: All products listed below are calibrated to the standard limits of error as stated in ISA/ANSI MC96.1
4. TEMPERATURE: Temperature ratings listed below are continuous, single-reading temperature ratings are available upon request

APPLICATIONS

For use in inert or oxidizing atmospheres.

FEP INSULATION/JACKET TEMPERATURE RATED: 200°C

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-660-2011K	20	Solid	2	FEP	FEP	0.072 x 0.124	Yes
328-660-2011K-B	20	Solid	2	FEP	FEP	0.076 x 0.128	Yes
328-660-1611K	16	Solid	2	FEP	FEP	0.087 x 0.154	Yes

FUSED TFE TAPE INSULATION/JACKET TEMPERATURE RATED: 260°C

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-220-2411K	24	Solid	2	Fused TFE tape	Fused TFE tape	0.060 x 0.096	Yes
328-220-2011K	20	Solid	2	Fused TFE tape	Fused TFE tape	0.072 x 0.120	Yes

POLYIMIDE INSULATION/JACKET TEMPERATURE RATED: 260°C

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-550-2411K	24	Solid	2	Polyimide	Polyimide	0.040 x 0.070	Yes
328-550-2011K	20	Solid	2	Polyimide	Polyimide	0.052 x 0.094	Yes

GLASS BRAID INSULATION/JACKET TEMPERATURE RATED: 510°C

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-110-3011K	30	Solid	2	Glass braid	Glass braid	0.030 x 0.048	Yes
328-110-2411K	24	Solid	2	Glass braid	Glass braid	0.040 x 0.068	Yes
328-110-2421K	24	Stranded	2	Glass braid	Glass braid	0.048 x 0.084	Yes
328-110-2011K	20	Solid	2	Glass braid	Glass braid	0.056 x 0.100	Yes
328-110-2021K	20	Stranded	2	Glass braid	Glass braid	0.060 x 0.108	Yes
328-110-1611K	16	Solid	2	Glass braid	Glass braid	0.085 x 0.150	Yes
328-110-1411K	14	Solid	2	Glass braid	Glass braid	0.100 x 0.180	Yes

HIGH-TEMPERATURE GLASS INSULATION/JACKET TEMPERATURE RATED: 704°C

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-330-2411K	24	Solid	2	Hi-temp glass	Hi-temp glass	0.064 x 0.102	Yes
328-330-2011K	20	Solid	2	Hi-temp glass	Hi-temp glass	0.084 x 0.142	Yes

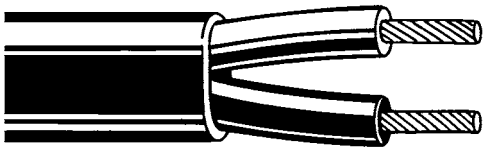
VITREOUS SILICA INSULATION/JACKET TEMPERATURE RATED: 982°C

ANSI Certificates of Compliance and calibration reports available upon request. Stainless steel, tinned copper and Inconel overbraids may be added to the constructions listed above. Diameters may vary among manufacturers.

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-440-2411K	24	Solid	2	Vitreous silica	Vitreous silica	0.086 x 0.138	No
328-440-2011K	20	Solid	2	Vitreous silica	Vitreous silica	0.098 x 0.162	No

Thermocouple Cable

High-temperature Type T



Positive leg: Copper

Negative leg: Constantan

SPECIFICATIONS

1. ASSEMBLY: All constructions are duplex (parallel)
2. COLOR CODE: Standard ISA/ANSI color coding is used on all thermocouple wire when type of insulation permits. In color coding, the right is reserved to include a tracer to identify the ISA/ANSI type, ISA/ANSI Type T color code: positive leg (Copper) is blue, negative leg (Constantan) is red and the jacket is brown
3. STANDARD: All products listed below are calibrated to the standard limits of error as stated in ISA/ANSI MC96.1
4. TEMPERATURE: Temperature ratings listed below are continuous, single-reading temperature ratings are available upon request

APPLICATIONS

For use in mild oxidizing, reducing, inert, and vacuum environments.

FEP INSULATION/JACKET TEMPERATURE RATED: 200°C

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-660-2011T	20	Solid	2	FEP	FEP	0.072 x 0.124	Yes
328-660-2011T-B	20	Solid	2	FEP	FEP	0.076 x 0.128	Yes
328-660-1611T	16	Solid	2	FEP	FEP	0.111 x 0.190	Yes

FUSED TFE TAPE INSULATION/JACKET TEMPERATURE RATED: 260°C

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-220-2411T	24	Solid	2	Fused TFE tape	Fused TFE tape	0.060 x 0.096	Yes
328-220-2011T	20	Solid	2	Fused TFE tape	Fused TFE tape	0.072 x 0.120	Yes

POLYIMIDE INSULATION/JACKET TEMPERATURE RATED: 260°C

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-550-2411T	24	Solid	2	Polyimide	Polyimide	0.040 x 0.070	Yes
328-550-2011T	20	Solid	2	Polyimide	Polyimide	0.052 x 0.094	Yes

HIGH-TEMPERATURE GLASS INSULATION/JACKET TEMPERATURE RATED: 704°C

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-110-3011T	30	Solid	2	Glass braid	Glass braid	0.030 x 0.048	Yes
328-110-2411T	24	Solid	2	Glass braid	Glass braid	0.040 x 0.068	Yes
328-110-2421T	24	Stranded	2	Glass braid	Glass braid	0.048 x 0.084	Yes
328-110-2011T	20	Solid	2	Glass braid	Glass braid	0.056 x 0.100	Yes
328-110-2021T	20	Stranded	2	Glass braid	Glass braid	0.060 x 0.108	Yes
328-110-1611T	16	Solid	2	Glass braid	Glass braid	0.085 x 0.150	Yes
328-110-1411T	14	Solid	2	Glass braid	Glass braid	0.100 x 0.180	Yes

HIGH-TEMPERATURE GLASS INSULATION/JACKET TEMPERATURE RATED: 704°C

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-330-2411T	24	Solid	2	Hi-temp glass	Hi-temp glass	0.064 x 0.102	Yes
328-330-2011T	20	Solid	2	Hi-temp glass	Hi-temp glass	0.084 x 0.142	Yes

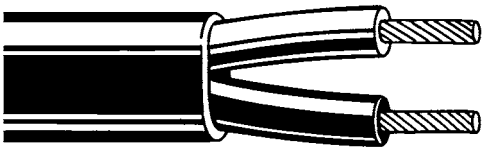
VITREOUS SILICA INSULATION/JACKET TEMPERATURE RATED: 982°C

ANSI Certificates of Compliance and calibration reports available upon request. Stainless steel, tinned copper and Inconel overbraids may be added to the constructions listed above. Diameters may vary among manufacturers.

Anixter No.	Conductor Size AWG	Type of Conductor	No. of Conductors	Type of Insulation	Type of Jacket	Nominal O.D. (in.)	ANSI Color Coded
328-440-2411T	24	Solid	2	Vitreous silica	Vitreous silica	0.086 x 0.138	No
328-440-2011T	20	Solid	2	Vitreous silica	Vitreous silica	0.098 x 0.162	No

Thermocouple Cable

Nonshielded



PVC insulation
PVC jacket
Stranded or solid conductors

SPECIFICATIONS

1. CONDUCTORS: Solid or stranded thermocouple extension wire conforming to limits of error listed in ISA/ANSI MC96.1
2. INSULATION: Polyvinyl Chloride (PVC)
3. ASSEMBLY: Two conductor parallel (duplex) construction
4. COLOR CODE: Per ISA/ANSI MC96.1
5. OVERALL JACKET: Polyvinyl Chloride (PVC), color coded per ISA/ANSI MC96.1
6. TEMPERATURE: 105°C
7. VOLTAGE: 300 V

APPLICATIONS

Used to economically extend the thermocouple signal in aluminum and steel plants, pulp and paper, glass, automotive, petrochemical, heat treating and food processing industries.

Anixter No.	Thermocouple Ext. Type	Conductor Size AWG	Type of Conductor	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
327-200-2002-JX	JX	20	Solid	0.092 x 0.154	14
327-201-2002-JX	JX	20	Stranded	0.096 x 0.185	15
327-200-1602-JX	JX	16	Solid	0.111 x 0.192	24
327-200-1402-JX	JX	14	Solid	0.124 x 0.218	34
327-200-2002-KX	KX	20	Solid	0.092 x 0.154	14
327-201-2002-KX	KX	20	Stranded	0.096 x 0.185	15
327-200-1602-KX	KX	16	Solid	0.111 x 0.192	24
327-200-1402-KX	KX	14	Solid	0.124 x 0.218	34
327-200-2002-TX	TX	20	Solid	0.092 x 0.154	14
327-201-2002-TX	TX	20	Stranded	0.096 x 0.185	15
327-200-1602-TX	TX	16	Solid	0.111 x 0.192	24
327-200-1402-TX	TX	14	Solid	0.124 x 0.218	34
327-200-2002-EX	EX	20	Solid	0.092 x 0.154	14
327-201-2002-EX	EX	20	Stranded	0.096 x 0.185	15
327-200-1602-EX	EX	16	Solid	0.111 x 0.192	24
327-200-1402-EX	EX	14	Solid	0.124 x 0.218	34

Optional overbraids available: stainless steel wire braid or tinned copper wire braid.
Diameters and weights may vary among manufacturers.
UL Listed PLTC available upon request.

Thermocouple Cable

Overall Shielded (PLTC)

PVC insulation

PVC jacket

SPECIFICATIONS

1. CONDUCTORS: Solid thermocouple extension wire conforming to limits of error listed in ISA/ANSI MC96.1
2. INSULATION: 105°C flame-retardant Polyvinyl Chloride (PVC), average thickness is 15 mils
3. COLOR CODE: Per ISA/ANSI MC96.1 latest revision
4. ASSEMBLY: Twisted pairs, with one conductor in each group number identified, the cable core has an overall aluminum/polyester shield with a tinned copper drain wire
5. OVERALL JACKET: Flame-retardant Polyvinyl Chloride (PVC), color coded per ISA/ANSI MC96.1
6. STANDARDS: Meets the requirements of UL 13 and passes the IEEE 1202 flame test
7. TEMPERATURE: 105°C
8. VOLTAGE: 300 V

APPLICATIONS

Used to economically extend the thermocouple signal in aluminum and steel plants, pulp and paper, glass, automotive, petrochemical, heat treating and food processing industries.

Anixter No.	No. of Pairs	Conductor Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
327-221-2001-XX	1	20	0.200	40
327-221-2002-XX	2	20	0.330	50
327-221-2004-XX	4	20	0.354	70
327-221-2006-XX	6	20	0.367	101
327-221-2008-XX	8	20	0.477	123
327-221-2010-XX	10	20	0.530	150
327-221-2012-XX	12	20	0.554	166
327-221-2016-XX	16	20	0.639	222
327-221-2020-XX	20	20	0.653	261
327-221-2024-XX	24	20	0.726	308
327-221-2036-XX	36	20	0.843	428
327-221-1601-XX	1	16	0.260	42

The voltage rating of the cable will not be printed on the cable jacket, as indicated in the marking requirements of UL Subject 13.
Substitute XX with either JX, KX, TX, or EX (e.g. 327-221-1601-KX).
Other gauge sizes and pair counts available upon request.
Diameters and weights may vary among manufacturers.

Thermocouple Cable

Individual and Overall Shield (PLTC)

PVC insulation
PVC jacket

SPECIFICATIONS

1. CONDUCTORS: Solid thermocouple extension wire conforming to limits of error listed in ISA/ANSI MC96.1
2. INSULATION: 105°C flame-retardant Polyvinyl Chloride (PVC), average thickness is 15 mils
3. COLOR CODE: Per ISA/ANSI MC96.1
4. ASSEMBLY: Each pair is twisted with an aluminum/polyester shield and drain wire over each pair, the cable core has an overall aluminum/polyester shield with a tinned copper drain wire, all pair shields are isolated from each other
5. OVERALL JACKET: Flame-retardant Polyvinyl Chloride (PVC), color coded per ISA/ANSI MC96.1
6. STANDARDS: Meets the requirements of UL 13 and passes the IEEE 383 flame test
7. TEMPERATURE: 105°C
8. VOLTAGE: 300 V

APPLICATIONS

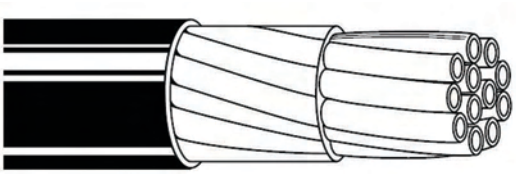
Used to economically extend the thermocouple signal in aluminum and steel plants, pulp and paper, glass, automotive, petrochemical, heat treating and food processing industries.

Anixter No.	No. of Pairs	Conductor Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
327-231-2002-XX	2	20	0.400	90
327-231-2004-XX	4	20	0.475	100
327-231-2006-XX	6	20	0.525	126
327-231-2008-XX	8	20	0.568	153
327-231-2010-XX	10	20	0.650	183
327-231-2012-XX	12	20	0.703	226
327-231-2016-XX	16	20	0.778	284
327-231-2020-XX	20	20	0.859	356
327-231-2024-XX	24	20	0.972	416
327-231-2036-XX	36	20	1.108	578

The voltage rating of the cable will not be printed on the cable jacket, as indicated in the marking requirements of UL Subject 13.
Substitute XX with either JX, KX, TX or EX (e.g. 327-231-2004-KX).
Diameters and weights may vary among manufacturers.

Traffic Signal and Transit Cable

IMSA 19-1 Solid Conductor



Polyethylene insulation
PVC jacket
75°C, 600 V

SPECIFICATIONS

1. CONDUCTORS: Bare solid annealed copper, conforming to the requirements of ASTM B-3, latest edition
2. INSULATION: The insulation compound before application to the conductors is heat-stabilized polyethylene and it meets all requirements of the latest IMSA Specification No. 19-1
3. ASSEMBLY: The insulated conductors are laid up in compact cable form, and bound with a spiral wrap of moisture-resistant tape applied to lap at least 10 percent of its width
4. OVERALL JACKET: Polyvinyl Chloride (PVC), meeting the requirements of the latest IMSA Specification No. 19-1
5. STANDARDS: The cable is manufactured to meet or exceed the latest International Municipal Signal Association (IMSA) Specification No. 19-1
6. TEMPERATURE: 75°C
7. VOLTAGE: 600 V

APPLICATIONS

For use in signal systems in underground conduit/duct, or as aerial cable supported by a messenger, or for installation in buildings.

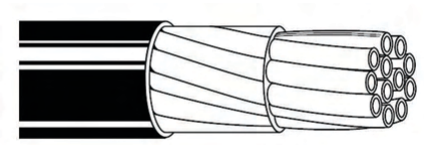
Anixter No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
2D-1402	14	2	0.025	0.045	0.340	77
2D-1403	14	3	0.025	0.045	0.360	904
2D-1404	14	4	0.025	0.045	0.390	109
2D-1405	14	5	0.025	0.045	0.420	129
2D-1406	14	6	0.025	0.045	0.460	156
2D-1407	14	7	0.025	0.045	0.460	168
2D-1408	14	8	0.025	0.045	0.490	189
2D-1409	14	9	0.025	0.060	0.610	212
2D-1410	14	10	0.025	0.060	0.610	250
2D-1411	14	11	0.025	0.060	0.610	268
2D-1412	14	12	0.025	0.060	0.630	284
2D-1414	14	14	0.025	0.060	0.660	323
2D-1415	14	15	0.025	0.060	0.665	340
2D-1419	14	19	0.025	0.060	0.730	424
2D-1420	14	20	0.025	0.060	0.735	435
2D-1424	14	24	0.025	0.080	0.880	523
2D-1433	14	33	0.025	0.080	0.970	716
2D-1202	12	2	0.030	0.045	0.400	101
2D-1203	12	3	0.030	0.045	0.420	122
2D-1204	12	4	0.030	0.045	0.460	161
2D-1205	12	5	0.030	0.045	0.500	188
2D-1206	12	6	0.030	0.060	0.570	240
2D-1207	12	7	0.030	0.060	0.570	258
2D-1208	12	8	0.030	0.060	0.600	295
2D-1209	12	9	0.030	0.060	0.720	325
2D-1210	12	10	0.030	0.060	0.720	371
2D-1211	12	11	0.030	0.060	0.720	398
2D-1212	12	12	0.030	0.060	0.740	423
2D-1214	12	14	0.030	0.060	0.780	483
2D-1215	12	15	0.030	0.060	0.795	495
2D-1219	12	19	0.030	0.080	0.915	650
2D-1220	12	20	0.030	0.080	0.925	675
2D-1224	12	24	0.030	0.080	1.050	820
2D-1233	12	33	0.030	0.080	1.160	1,073

Other conductor counts are available upon request.

Traffic Signal and Transit Cable

IMSA 19-1 Stranded Conductor

Polyethylene insulation
PVC jacket
75°C, 600 V



SPECIFICATIONS

1. CONDUCTORS: Bare stranded annealed copper, conforming to the requirements of ASTM B-3, latest edition
2. INSULATION: The insulation compound before application to the conductors is heat-stabilized polyethylene and it meets all requirements of the latest IMSA Specification No. 19-1
3. ASSEMBLY: The insulated conductors are laid up in compact cable form, and bound with a spiral wrap of moisture-resistant tape applied to lap at least 10 percent of its width
4. OVERALL JACKET: Polyvinyl Chloride (PVC), meeting the requirements of the latest IMSA Specification No. 19-1
5. STANDARDS: The cable is manufactured to meet or exceed the latest International Municipal Signal Association (IMSA) Specification No. 19-1
6. TEMPERATURE: 75°C
7. VOLTAGE: 600 V

APPLICATIONS

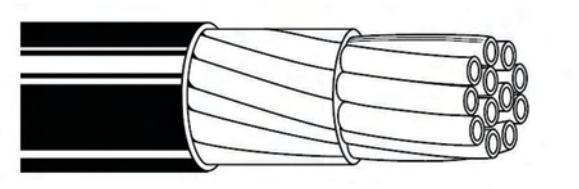
For use in signal systems in underground conduit/duct, or as aerial cable supported by a messenger, or for installation in buildings.

Anixter No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
2E-1402	14	2	0.025	0.045	0.350	77
2E-1403	14	3	0.025	0.045	0.370	90
2E-1404	14	4	0.025	0.045	0.400	109
2E-1405	14	5	0.025	0.045	0.430	129
2E-1406	14	6	0.025	0.045	0.465	156
2E-1407	14	7	0.025	0.045	0.470	168
2E-1408	14	8	0.025	0.045	0.500	189
2E-1409	14	9	0.025	0.060	0.610	212
2E-1410	14	10	0.025	0.060	0.610	250
2E-1411	14	11	0.025	0.060	0.610	268
2E-1412	14	12	0.025	0.060	0.630	284
2E-1414	14	14	0.025	0.060	0.670	323
2E-1415	14	15	0.025	0.060	0.680	340
2E-1419	14	19	0.025	0.060	0.740	424
2E-1424	14	24	0.025	0.080	0.890	523
2E-1202	12	2	0.030	0.045	0.410	101
2E-1203	12	3	0.030	0.045	0.430	122
2E-1204	12	4	0.030	0.045	0.470	161
2E-1205	12	5	0.030	0.045	0.510	188
2E-1206	12	6	0.030	0.060	0.580	240
2E-1207	12	7	0.030	0.060	0.590	258
2E-1208	12	8	0.030	0.060	0.610	295
2E-1209	12	9	0.030	0.060	0.730	325
2E-1210	12	10	0.030	0.060	0.730	371
2E-1211	12	11	0.030	0.060	0.730	398
2E-1212	12	12	0.030	0.060	0.750	423
2E-1214	12	14	0.030	0.060	0.790	483
2E-1215	12	15	0.030	0.060	0.805	495
2E-1219	12	19	0.030	0.080	0.925	650
2E-1224	12	24	0.030	0.080	1.060	820

Other conductor counts are available upon request.

Traffic Signal and Transit Cable

IMSA 20-1 Solid Conductor



Polyethylene insulation
Polyethylene jacket
75°C, 600 V

SPECIFICATIONS

1. CONDUCTORS: Bare solid annealed copper, conforming to the requirements of ASTM B-3, latest edition
2. INSULATION: The insulation compound before application to the conductors is heat-stabilized polyethylene and it meets all requirements of the latest IMSA Specification No. 20-1
3. ASSEMBLY: The insulated conductors are laid up in compact cable form, and bound with a spiral wrap of moisture-resistant tape
4. OVERALL JACKET: High molecular weight polyethylene
5. STANDARDS: The completed cable meets or exceeds the latest International Municipal Signal Association (IMSA) Specification No. 20-1
6. TEMPERATURE: 75°C
7. VOLTAGE: 600 V

APPLICATIONS

For use in signal systems and approved for installation in underground ducts or an aerial cable supported by a messenger.

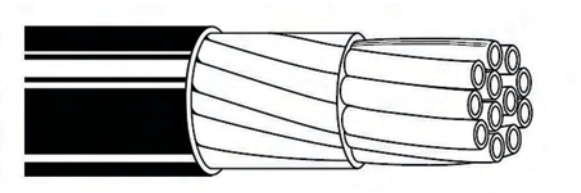
Anixter No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
2F-1402	14	2	0.025	0.045	0.340	52
2F-1403	14	3	0.025	0.045	0.360	66
2F-1404	14	4	0.025	0.045	0.390	85
2F-1405	14	5	0.025	0.045	0.420	103
2F-1406	14	6	0.025	0.045	0.460	121
2F-1407	14	7	0.025	0.045	0.460	136
2F-1408	14	8	0.025	0.045	0.490	154
2F-1409	14	9	0.025	0.060	0.610	172
2F-1410	14	10	0.025	0.060	0.610	197
2F-1411	14	11	0.025	0.060	0.610	215
2F-1412	14	12	0.025	0.060	0.630	232
2F-1414	14	14	0.025	0.060	0.660	268
2F-1419	14	19	0.025	0.060	0.730	353
2F-1424	14	24	0.025	0.080	0.880	438
2F-1202	12	2	0.030	0.045	0.400	74
2F-1203	12	3	0.030	0.045	0.420	99
2F-1204	12	4	0.030	0.045	0.460	124
2F-1205	12	5	0.030	0.045	0.500	152
2F-1206	12	6	0.030	0.060	0.570	182
2F-1207	12	7	0.030	0.060	0.570	212
2F-1208	12	8	0.030	0.060	0.600	248
2F-1209	12	9	0.030	0.060	0.720	284
2F-1210	12	10	0.030	0.060	0.720	297
2F-1211	12	11	0.030	0.060	0.720	322
2F-1212	12	12	0.030	0.060	0.740	346
2F-1214	12	14	0.030	0.060	0.780	395
2F-1219	12	19	0.030	0.080	0.915	593
2F-1224	12	24	0.030	0.080	1.050	714

Other conductor counts are available upon request.

Traffic Signal and Transit Cable

IMSA 20-1 Stranded Conductor

Polyethylene insulation
Polyethylene jacket
75°C, 600 V



SPECIFICATIONS

1. CONDUCTORS: Bare, stranded, annealed copper, conforming to the requirements of ASTM B-3, latest edition
2. INSULATION: The insulation compound before application to the conductors is heat-stabilized polyethylene, and it meets all requirements of the latest IMSA Specification No. 20-1
3. ASSEMBLY: The insulated conductors are laid up in compact cable form, and bound with a spiral wrap
4. OVERALL JACKET: High molecular weight polyethylene
5. STANDARDS: The completed cable meets or exceeds the latest International Municipal Signal Association (IMSA) Specification No. 20-1
6. TEMPERATURE: 75°C
7. VOLTAGE: 600 V

APPLICATIONS

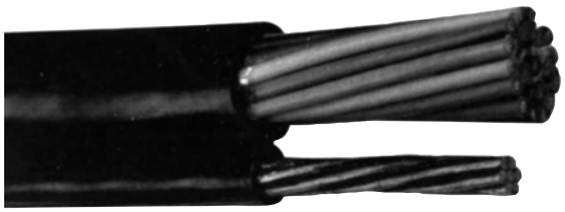
For use in signal systems and approved for installation in underground ducts or as aerial cable supported by a messenger.

Anixter No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
2G-1402	14	2	0.025	0.045	0.350	56
2G-1403	14	3	0.025	0.045	0.370	72
2G-1404	14	4	0.025	0.045	0.400	90
2G-1405	14	5	0.025	0.045	0.430	110
2G-1406	14	6	0.025	0.045	0.465	126
2G-1407	14	7	0.025	0.045	0.470	141
2G-1408	14	8	0.025	0.045	0.500	167
2G-1409	14	9	0.025	0.060	0.610	192
2G-1410	14	10	0.025	0.060	0.610	205
2G-1411	14	11	0.025	0.060	0.610	225
2G-1412	14	12	0.025	0.060	0.630	244
2G-1414	14	14	0.025	0.060	0.670	280
2G-1415	14	15	0.025	0.060	0.680	299
2G-1419	14	19	0.025	0.060	0.740	368
2G-1424	14	24	0.025	0.080	0.890	458
2G-1202	12	2	0.030	0.045	0.410	74
2G-1203	12	3	0.030	0.045	0.430	103
2G-1204	12	4	0.030	0.045	0.470	130
2G-1205	12	5	0.030	0.045	0.510	159
2G-1206	12	6	0.030	0.060	0.580	191
2G-1207	12	7	0.030	0.060	0.590	222
2G-1208	12	8	0.030	0.060	0.610	258
2G-1209	12	9	0.030	0.060	0.730	294
2G-1210	12	10	0.030	0.060	0.730	309
2G-1211	12	11	0.030	0.060	0.730	338
2G-1212	12	12	0.030	0.060	0.750	367
2G-1214	12	14	0.030	0.060	0.790	441
2G-1215	12	15	0.030	0.060	0.805	478
2G-1219	12	19	0.030	0.080	0.925	605
2G-1224	12	24	0.030	0.080	1.060	747

Other conductor counts are available upon request.

Traffic Signal and Transit Cable

IMSA 20-3 Self-supporting Aerial



Polyethylene insulation
Polyethylene jacket
75°C, 600 V

SPECIFICATIONS

1. CONDUCTORS: Bare, solid, annealed copper, conforming to the requirements of ASTM B-3, latest edition, aerial figure 8
2. INSULATION: The insulation compound before application to the conductors is heat-stabilized polyethylene, and it meets all requirements of the latest IMSA Specification No. 20-3
3. ASSEMBLY: The insulated conductors are laid up in compact cable form, and bound with a spiral wrap of moisture-resistant tape
4. MESSENGER: 0.25 in., 7 wire, high-strength galvanized steel
5. OVERALL JACKET: High molecular weight polyethylene
6. STANDARDS: The completed cable meets or exceeds the latest International Municipal Signal Association (IMSA) Specification No. 20-3
7. OVERALL DIAMETERS: Diameters shown below do not include the supporting messenger
8. TEMPERATURE: 75°C
9. VOLTAGE: 600 V

APPLICATIONS

For use in signal systems as a self-supporting aerial cable.

Anixter No.	Conductor Size AWG	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
2H-1402	14	2	0.025	0.045	0.340	202
2H-1403	14	3	0.025	0.045	0.360	221
2H-1404	14	4	0.025	0.045	0.390	239
2H-1405	14	5	0.025	0.045	0.420	256
2H-1406	14	6	0.025	0.045	0.460	271
2H-1407	14	7	0.025	0.045	0.460	289
2H-1408	14	8	0.025	0.045	0.490	309
2H-1409	14	9	0.025	0.060	0.610	328
2H-1410	14	10	0.025	0.060	0.610	355
2H-1411	14	11	0.025	0.060	0.610	372
2H-1412	14	12	0.025	0.060	0.630	388
2H-1414	14	14	0.025	0.060	0.660	422
2H-1419	14	19	0.025	0.060	0.730	505
2H-1424	14	24	0.025	0.080	0.880	577
2H-1202	12	2	0.030	0.045	0.400	229
2H-1203	12	3	0.030	0.045	0.420	253
2H-1204	12	4	0.030	0.045	0.460	280
2H-1205	12	5	0.030	0.045	0.500	307
2H-1206	12	6	0.030	0.060	0.570	331
2H-1207	12	7	0.030	0.060	0.570	356
2H-1208	12	8	0.030	0.060	0.600	389
2H-1209	12	9	0.030	0.060	0.720	415
2H-1210	12	10	0.030	0.060	0.720	441
2H-1211	12	11	0.030	0.060	0.720	471
2H-1212	12	12	0.030	0.060	0.740	502
2H-1214	12	14	0.030	0.060	0.780	562
2H-1219	12	19	0.030	0.080	0.915	697
2H-1224	12	24	0.030	0.080	1.050	837

Other conductor counts are available upon request.

Traffic Signal and Transit Cable

IMSA 50-2 Loop Detector Lead-in

Polyethylene insulation
Aluminum/polyester shield
Polyethylene jacket
600 V

SPECIFICATIONS

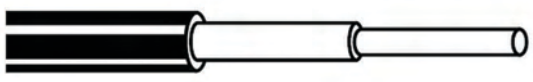
1. CONDUCTORS: Stranded, tinned copper, per ASTM B-33
2. INSULATION: High molecular weight polyethylene, one conductor clear and one black
3. SHIELDING: Aluminum/polyester tape helically applied with stranded, tinned copper drain wire
4. OVERALL JACKET: Polyethylene
5. STANDARDS: The completed cable meets or exceeds the latest International Municipal Signal Association (IMSA) Specification No. 50-2
6. TEMPERATURE: 60°C
7. VOLTAGE: 600 V

APPLICATIONS

For use in signal systems, underground conduit and in direct burial applications. Commonly used in loop systems to detect vehicles.

Anixter No.	Conductor Size AWG	No. of Conductors	No. of Strands	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
2J-1202	12	2	19	0.376	75
2J-1402	14	2	19	0.338	54
2J-1602	16	2	19	0.306	39

IMSA 51-5 and 51-7 Loop Detector



PVC insulation (51-5)
Nylon jacket (51-5 only)
XLP insulation (51-7)
PVC tube
60°C, 600 V

SPECIFICATIONS

1. CONDUCTORS: Stranded, one copper conductor per ASTM B-3
2. INSULATION: 15 mils of black PVC per UL 1581, Class 12 (51-5) or 30 mils of black XLP per ASTM D-2655 (51-7)
3. OVERALL JACKET: Clear nylon per ASTM D-4066 (51-5 only)
4. FEATURE: Encased in a loose PVC tube
5. STANDARDS: The completed cable meets or exceeds the latest International Municipal Signal Association (IMSA) Specification No. 51-5 or 51-7
6. TEMPERATURE: 60°C
7. VOLTAGE: 600 V

APPLICATIONS

Embedded in road pavements to detect vehicles for the purpose of changing signals or determining amount of traffic flow.

IMSA 51-5

Anixter No.	Conductor Size AWG	No. of Strands	Voltage	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
3SLC-1401-THHN	14	19	600	0.250	29.8

IMSA 51-7

Anixter No.	Conductor Size AWG	No. of Strands	Voltage	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
3SLC-1401-XHHW	14	19	600	0.250	29.8

Traffic Signal and Transit Cable

Rapid Transit

Thermoset polyolefin insulation
Single stranded conductor
UL VW-1, IEEE 383

SPECIFICATIONS

1. CONDUCTOR: Tinned, stranded copper
2. INSULATION: Polyolefin (radiation Cross-Linked)
3. STANDARDS: Passes VW-1 vertical flame test UL Standard 44, ICEA S-95-658 (NEMA WC70)
4. TEMPERATURE: 110°C for car wiring, 125°C for locomotive cable
5. VOLTAGE: 2,000 V

APPLICATIONS

Internal wiring for rapid transit cars and heavy and light rail cars. Also used in diesel electric locomotives, wayside equipment and offroad vehicles.

Anixter No.	Conductor Size AWG	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor 110°C	Amps per Conductor 125°C
2XT-1801	18	19	0.045	0.052	0.150	17	30	32
2XT-1601	16	19	0.045	0.060	0.160	19	35	38
2XT-1401	14	19	0.045	0.070	0.175	25	41	44
2XT-1201	12	19	0.045	0.090	0.195	34	52	56
2XT-1001	10	27	0.045	0.123	0.230	52	73	79
2XT-0601	6	61	0.055	0.180	0.330	113	120	130
2XT-0501	5	91	0.055	0.220	0.365	153	160	173
2XT-0401	4	105	0.055	0.240	0.345	174	168	181
2XT-0301	3	125	0.055	0.260	0.410	204	199	215
2XT-0201	2	150	0.055	0.325	0.450	235	214	231
2XT-0101	1	225	0.065	0.390	0.535	363	268	289
2XT-1011	1/0	275	0.065	0.420	0.585	435	304	328
2XT-2021	2/0	325	0.065	0.460	0.630	489	338	364
2XT-3031	3/0	450	0.065	0.565	0.715	673	414	446
2XT-4041	4/0	550	0.065	0.590	0.770	815	472	509
2XT-2621	262	650	0.075	0.660	0.835	975	524	565
2XT-3131	313	775	0.075	0.740	0.900	1,164	590	636
2XT-3731	373	925	0.075	0.790	0.980	1,349	657	708
2XT-4441	444	1,100	0.075	0.870	1.045	1,630	734	791
2XT-5351	535	1,325	0.090	0.970	1.175	2,018	828	893
2XT-6461	646	1,600	0.090	1.060	1.265	2,311	931	1,004
2XT-7771	777	1,925	0.090	1.120	1.345	2,777	1,047	1,129
2XT-9291	929	2,300	0.090	1.230	1.455	3,443	1,168	1,259
2XT-11111	111	2,750	0.110	1.370	1.625	3,980	1,254	1,352

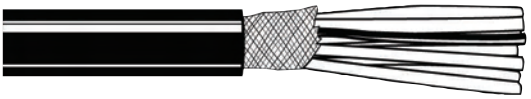
Traffic Signal and Transit Cable

IMSA Color Code

Conductor Number	Base Color	Tracer Color
1	Black	
2	White	
3	Red	
4	Green	
5	Orange	
6	Blue	
7	White	Black
8	Red	Black
9	Green	Black
10	Orange	Black
11	Blue	Black
12	Black	White
13	Red	White
14	Green	White
15	Blue	White
16	Black	Red
17	White	Red
18	Orange	Red
19	Blue	Red
20	Red	Green
21	Orange	Green
22	Black	
23	White	
24	Red	

Flexible Control Cables

UL and CSA



PVC insulation
PVC jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTORS: Extra fine stranded bare copper conductors
2. INSULATION: Polyvinyl Chloride (PVC), has a green ground with yellow stripe
3. JACKET: Polyvinyl Chloride (PVC), Polyurethane (PUR) jacket optional as UL Style 20234 rated 80°C
4. TEMPERATURE: Flexing: -5°C to 90°C, static: -40°C to 90°C
5. RATED VOLTAGE: 600 V
6. FLEX LIFE: Typically in excess of 1 million cycles
7. BENDING RADIUS: 10x cable diameter
8. STANDARDS: UL AWM Style 2587, CSA AWM I A/B, II A/B

APPLICATIONS

Continuous flex cable for robotics, pick and place equipment, automated handling equipment, machine tools, conveyor systems or any other application where there is continuous flexing. Cable is resistant to mineral oils, synthetic oils and water-based coolants. Available in 20 AWG to 16 AWG in most conductor counts. Larger sizes also available.

Anixter No.	Conductor Size AWG	No. of Conductors	No. of Strands	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
2RF-2002	20	2	66/38	0.284	38
2RF-2003	20	3	66/38	0.260	43
2RF-2004	20	4	66/38	0.280	49
2RF-2005	20	5	66/38	0.295	54
2RF-2007	20	7	66/38	0.343	112
2RF-2012	20	12	66/38	0.402	185
2RF-2018	20	18	66/38	0.480	275
2RF-1802	18	2	105/38	0.264	40
2RF-1803	18	3	105/38	0.276	46
2RF-1804	18	4	105/38	0.295	60
2RF-1805	18	5	105/38	0.311	74
2RF-1807	18	7	105/38	0.311	102
2RF-1809	18	9	105/38	0.370	128
2RF-1812	18	12	105/38	0.453	158
2RF-1818	18	18	105/38	0.488	234
2RF-1825	18	25	105/38	0.650	336
2RF-1602	16	2	189/38	0.315	59
2RF-1603	16	3	189/38	0.311	79
2RF-1604	16	4	189/38	0.354	99
2RF-1605	16	5	189/38	0.390	124
2RF-1607	16	7	189/38	0.472	138
2RF-1612	16	12	189/38	0.559	227
2RF-1618	16	18	189/38	0.673	323
2RF-1625	16	25	189/38	0.839	479

Weights, O.D., stranding and jacket color varies by manufacturer.
Orange jacket available upon request.
Shielded version also available.

Flexible Control Cables

Oil-resistant Flexible Control Cable

PVC insulation
PVC jacket
600 V UL/CSA

SPECIFICATIONS

1. CONDUCTORS: Finely stranded bare copper conductors
2. INSULATION: Polyvinyl Chloride (PVC), numbered for identification, has a green ground with a yellow stripe
3. JACKET: Grey PVC
4. TEMPERATURE: Flexing: -5°C to 90°C, static: -40°C to 90°C
5. RATED VOLTAGE: 600 V
6. BENDING RADIUS: 15x cable diameter
7. STANDARDS: UL AWM, CSA AWM II A/B

APPLICATIONS

Designed for use in all electrical equipment in dry, damp and wet conditions. Recommended applications are machine tools, assembly lines, control systems, data processing equipment, machine centers, grinding machine and bottling equipment.

Anixter No.	Conductor Size AWG	No. of Conductors	No. of Strands	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
2FL-2002	20	2	10/30	0.253	39
2FL-2003	20	3	10/30	0.265	41
2FL-2004	20	4	10/30	0.285	51
2FL-2005	20	5	10/30	0.308	60
2FL-2007	20	7	10/30	0.331	81
2FL-2009	20	9	10/30	0.379	135
2FL-2012	20	12	10/30	0.421	168
2FL-2018	20	18	10/30	0.487	198
2FL-1802	18	2	19/30	0.277	42
2FL-1803	18	3	19/30	0.291	44
2FL-1804	18	4	19/30	0.314	54
2FL-1805	18	5	19/30	0.340	64
2FL-1807	18	7	19/30	0.367	84
2FL-1809	18	9	19/30	0.423	118
2FL-1812	18	12	19/30	0.471	142
2FL-1825	18	25	19/30	0.656	277
2FL-1602	16	2	30/30	0.303	58
2FL-1603	16	3	30/30	0.319	61
2FL-1604	16	4	30/30	0.345	75
2FL-1605	16	5	30/30	0.375	91
2FL-1607	16	7	30/30	0.406	120
2FL-1609	16	9	30/30	0.470	174
2FL-1612	16	12	30/30	0.557	210
2FL-1618	16	18	30/30	0.644	298
2FL-1402	14	2	50/30	0.337	87
2FL-1403	14	3	50/30	0.356	93
2FL-1404	14	4	50/30	0.386	122
2FL-1405	14	5	50/30	0.421	145
2FL-1407	14	7	50/30	0.457	192
2FL-1409	14	9	50/30	0.563	318
2FL-1412	14	12	50/30	0.628	402
2FL-1418	14	18	50/30	0.729	575
2FL-1425	14	25	50/30	0.872	860

Weights, O.D. and stranding varies by manufacturer.
Shielded version also available.

Flexible Control Cables

UL/CSA/VDE/SEV

PVC insulation
PVC jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTORS: VDE 0295, Class 5
2. INSULATION: PVC. Has a green ground with a yellow stripe
3. JACKET: Grey PVC
4. TEMPERATURE: UL/CSA -5°C to 90°C, VDE/DEV -5°C to 70°C
5. RATED VOLTAGE: UL/CSA 600 V, VDE/SEV 300/500 V
6. BENDING RADIUS: 10x cable diameter
7. STANDARDS: UL AWM, CSA AWM II A/B FT1

APPLICATIONS

Flexible control cable with international approvals allowing cable to be used on machinery, equipment etc. designed for use in the U.S. as well as around the world. For use in electronic, communications, process control and instrumentation. Extremely resistant to oil. Excellent for industrial applications.

Anixter No.	Conductor Size AWG	No. of Conductors	No. of Strands	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
2FM-2003	20	3	24/32	0.264	42
2FM-2004	20	4	24/32	0.283	46
2FM-2005	20	5	24/32	0.319	48
2FM-2007	20	7	24/32	0.39	97
2FM-2012	20	12	24/32	0.445	133
2FM-2018	20	18	24/32	0.520	180
2FM-2025	20	25	24/32	0.591	256
2FM-1803	18	3	32/32	0.283	60
2FM-1804	18	4	32/32	0.354	67
2FM-1805	18	5	32/32	0.354	89
2FM-1807	18	7	32/32	0.437	114
2FM-1812	18	12	32/32	0.512	192
2FM-1825	18	25	32/32	0.748	383
2FM-1603	16	3	30/30	0.276	74
2FM-1604	16	4	30/30	0.354	95
2FM-1605	16	5	30/30	0.386	113
2FM-1607	16	7	30/30	0.480	151
2FM-1612	16	12	30/30	0.571	243
2FM-1618	16	18	30/30	0.693	348
2FM-1625	16	25	30/30	0.815	491
2FM-1634	16	34	30/30	0.969	637
2FM-1403	14	3	50/30	0.382	114
2FM-1404	14	4	50/30	0.433	141
2FM-1405	14	5	50/30	0.476	173
2FM-1407	14	7	50/30	0.559	229
2FM-1412	14	12	50/30	0.701	390
2FM-1418	14	18	50/30	0.839	571
2FM-1425	14	25	50/30	0.988	790
2FM-1434	14	34	50/30	1.185	1,029
2FM-1450	14	50	50/30	1.354	1,538
2FM-1460	14	60	50/30	1.417	1,832

Weights, O.D. and stranding varies by manufacturer.
Shielded version also available.

Panel Shop Solutions

Industrial Control
1. Contactors/starters
2. Disconnects
3. Miniature circuit breakers
4. Molded case circuit breaker
5. Motor circuit protection
6. Power supplies
7. Relays
8. Terminal blocks
9. Transformers
10. VFDs

Electrical and Electronic
11. **Wire and Cable**
    - Hook-up wire
    - VFD cable
    - Power cable
    - Instrumentation wire
    - Specialty cable
    - Industrial communication wire

Industrial Ethernet
6. Power supplies
12. Industrial gateways
13. Industrial switches
14. Media conversion
15. Patch cords/cord sets

Support and Supply Products
16. Consumables:
    - Labeling
    - Cord grips
    - Wire ties
    - Ferrules
    - Forks and ring terminals
    - Heat shrink
17. DIN rail
18. Enclosures
19. Spiral wrap
20. Wire ties
21. Wireway

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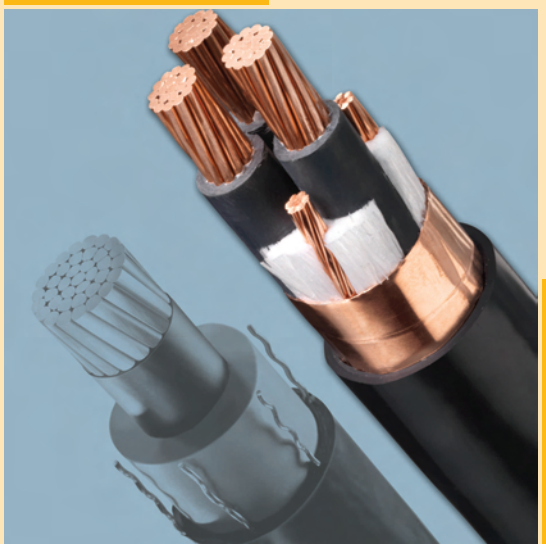
9



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General Cable

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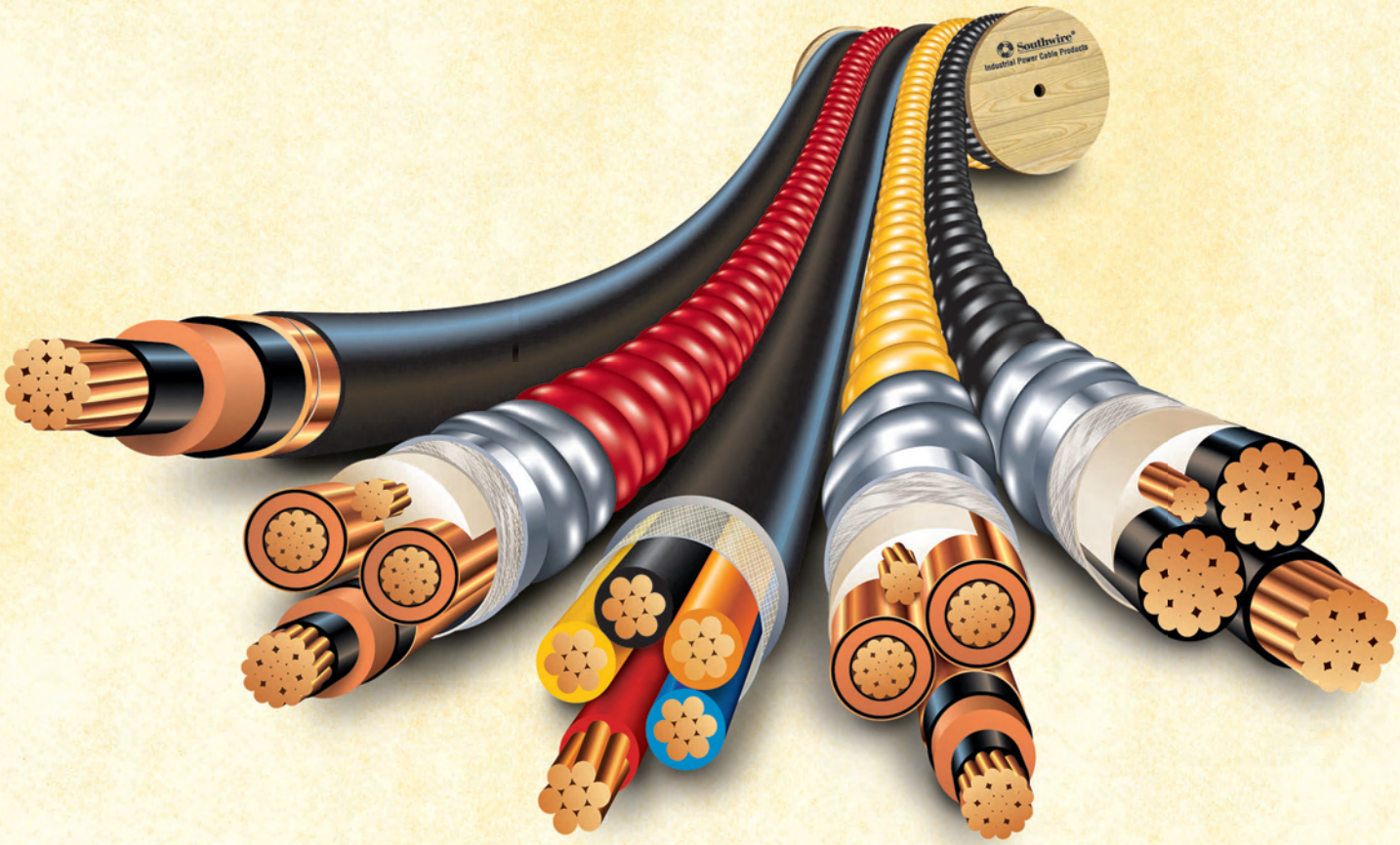

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600 V Multiconductor

XLP/TS-CPE

XLP insulation
TS-CPE jacket
UL Listed Type TC
90°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, tinned copper per ASTM B-3 and B-8
2. INSULATION: Cross-Linked Polyethylene (XLP), per ICEA S-95-658 (NEMA WC70), meets UL requirements for Type XHHW-2
3. COLOR CODE: Conductors are coded per ICEA Method 4 (printed numbers)
4. ASSEMBLY: Insulated conductors together with one bare UL ground wire, cabled together with suitable fillers and wrapped with a clear aluminum/polyester tape
5. OVERALL JACKET: Sunlight-resistant thermoset Chlorinated Polyethylene (TS-CPE)
6. STANDARDS: Meets UL 1277 requirements for Type TC cables having VW-1 rated XHHW-2 conductors. Cables are listed for direct burial and meet the IEEE 1202, IEEE 383, and UL 1685, 70,000 Btu/hr flame tests as well as the ICEA T-29-520, 210,000 Btu/hr flame test
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth per NEC Table 310.16 with an ambient temperature of 30°C and a conductor temperature of 90°C. All 4-conductor values have been derated per 2008 NEC Table 310.15(B)(2)(a)
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

Used for control and power applications in chemical plants, steel mills, industrial plants, utility substations and generating stations, residential and commercial buildings. May be used in Class 1, Div. 2 Hazardous Locations per NEC Art. 501. These cables also conform to Art. 392 "Cable Trays" and Art. 336 "Power and Control Tray Cable." Suitable for aerial, duct or direct burial.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3RH-1003	10	7	10	3	0.030	0.045	0.49	205	30
3RH-0803	8	7	10	3	0.045	0.045	0.66	223	55
3RH-0804	8	7	10	4	0.045	0.060	0.726	421	44
3RH-0603	6	7	8	3	0.045	0.060	0.745	483	75
3RH-0604	6	7	8	4	0.045	0.060	0.82	600	60
3RH-0403	4	7	8	3	0.045	0.080	0.89	700	95
3RH-0404	4	7	8	4	0.045	0.080	0.975	882	76
3RH-0203	2	7	6	3	0.045	0.080	1.02	1,025	130
3RH-0204	2	7	6	4	0.045	0.080	1.02	1,290	104
3RH-1013	1/0	19	6	3	0.055	0.080	1.24	1,500	170
3RH-2023	2/0	19	6	3	0.055	0.080	1.34	1,809	195
3RH-2024	2/0	19	6	4	0.055	0.080	1.48	2,310	156
3RH-4043	4/0	19	4	3	0.055	0.080	1.578	2,720	260
3RH-2503	250	37	4	3	0.065	0.110	1.750	3,590	290
3RH-3503	350	37	3	3	0.065	0.110	2.01	4,435	350
3RH-5003	500	37	2	3	0.065	0.110	2.30	6,075	430
3RH-5004	500	37	2	4	0.065	0.110	2.55	7,910	344

Diameters and weights may vary among manufacturers.

600 V Multiconductor

EPR/CPE

EPR insulation
CPE jacket
UL Listed Type TC

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, tinned copper per ASTM B-3, B-33
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-95-658 (NEMA WC70), meets UL 44 requirements for Type XHHW-2
3. COLOR CODE: Conductors are color coded per ICEA Method 4 (printed numbers)
4. ASSEMBLY: Conductors are cabled with a single UL ground wire and fillers where necessary to make round
5. OVERALL JACKET: Sunlight-resistant thermoplastic Chlorinated Polyethylene (CPE)
6. STANDARDS: Meets UL 1277 requirements for Type TC cables having VW-1 rated XHHW-2 conductors. Cables are listed for direct burial and meet the IEEE 1202, IEEE 383, and UL 1685, 70,000 Btu/hr flame tests as well as the ICEA T-29-520, 210,000 Btu/hr flame test
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth (directly buried) with an ambient temperature of 30°C per 2008 NEC Table 310.16
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

Used for control and power applications in chemical plants, steel mills, industrial plants, utility substations and generating stations, residential as well as commercial buildings. May be used in Class 1, Div. 2 Hazardous Locations per NEC Art. 501. These cables also conform to Art. 392 "Cable Trays" and Art. 336 "Power and Control Tray Cable." Suitable for aerial, duct or direct burial.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3MR-0803	8	7	10	3	0.045	0.060	0.660	299	55
3MR-0603	6	7	8	3	0.045	0.060	0.750	421	75
3MR-0403	4	7	8	3	0.045	0.080	0.890	635	95
3MR-0203	2	7	6	3	0.045	0.080	1.020	925	130
3MR-0103	1	19	6	3	0.055	0.080	1.150	1,158	150
3MR-1013	1/0	19	6	3	0.055	0.080	1.240	1,403	170
3MR-2023	2/0	19	4	3	0.055	0.080	1.340	1,709	195
3MR-3033	3/0	19	4	3	0.055	0.080	1.450	2,094	225
3MR-4043	4/0	19	4	3	0.055	0.080	1.580	2,575	260
3MR-2503	250	37	4	3	0.065	0.110	1.780	3,126	290
3MR-3503	350	37	3	3	0.065	0.110	2.010	4,219	350
3MR-5003	500	37	2	3	0.065	0.110	2.310	5,843	430

Diameters and weights may vary among manufacturers.

600 V Multiconductor

PVC-Nylon/PVC Tray Cable

PVC-nylon insulation
PVC jacket
UL Listed Type TC

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed bare copper per ASTM B-3 and B-8
2. INSULATION: Polyvinyl Chloride (PVC), nylon covered per UL 83 for Type THHN/THWN
3. COLOR CODE: Conductors are color coded per ICEA Method 4 (printed numbers)
4. ASSEMBLY: Insulated conductors are cabled together with fillers as necessary to make round
5. OVERALL JACKET: Sunlight-resistant Polyvinyl Chloride (PVC) per UL 1277
6. STANDARDS: Meets UL 1277 requirements for Type TC cables having THWN or THHN conductors. Cables are listed for direct burial and meet the IEEE 1202 and UL 1685, 70,000 Btu/hr flame tests
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth per NEC Table 310.16 with a conductor temperature of 90°C and an ambient temperature of 30°C. All 4-conductor values have been derated per 2008 NEC Table 310.15(B)(2)(a)
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

Used for control and power applications in chemical plants, steel mills, industrial plants, utility substations and generating stations, residential and commercial buildings. May be used in Class 1, Div. 2 Hazardous Locations per NEC Art. 501. These cables also conform to Art. 392 "Cable Trays" and Art. 336 "Power and Control Tray Cable." Suitable for aerial, duct or direct burial.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3G-0803	8	7	3	0.060	0.600	283	55
3G-0804	8	7	4	0.060	0.658	352	44
3G-0603	6	7	3	0.060	0.684	400	75
3G-0604	6	7	4	0.060	0.752	506	60
3G-0403	4	7	3	0.080	0.876	653	95
3G-0404	4	7	4	0.080	0.963	828	76
3G-0203	2	7	3	0.080	1.005	948	130
3G-0204	2	7	4	0.080	1.107	1,206	104
3G-1013	1/0	19	3	0.080	1.231	1,436	170
3G-1014	1/0	19	4	0.080	1.360	1,850	136
3G-2023	2/0	19	3	0.080	1.328	1,750	195
3G-2024	2/0	19	4	0.080	1.469	2,345	156
3G-4043	4/0	19	3	0.110	1.556	2,610	260
3G-4044	4/0	19	4	0.110	1.784	3,480	208
3G-2503	250	37	3	0.110	1.762	3,190	290
3G-2504	250	37	4	0.110	1.948	4,119	232
3G-3503	350	37	3	0.110	1.983	4,150	350
3G-3504	350	37	4	0.110	2.196	5,530	280
3G-5003	500	37	3	0.110	2.259	5,980	430
3G-5004	500	37	4	0.110	2.505	7,668	344

Diameters and weights may vary among manufacturers.

600 V Multiconductor

PVC-Nylon/PVC Tray Cable With Ground

PVC-nylon insulation
PVC jacket
UL Listed, Type TC

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed bare copper per ASTM B3 and B8
2. INSULATION: Polyvinyl Chloride (PVC), nylon covered per UL 83 for Type THHN/THWN
3. COLOR CODE: Conductors are color coded per ICEA Method 4 (printed numbers)
4. ASSEMBLY: Insulated conductors are cabled with a single ground wire and fillers as necessary to make round
5. OVERALL JACKET: Sunlight-resistant Polyvinyl Chloride (PVC) per UL 1277
6. STANDARDS: Meets UL 1277 requirements for Type TC cables having THWN or THHN conductors. Cables are listed for direct burial and meet the IEEE 1202 and UL 1685, 70,000 Btu/hr flame tests
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth per NEC Table 310.16 with a conductor temperature of 90°C and an ambient temperature of 30°C. All 4-conductor values have been derated per 2008 NEC Table 310.15(B)(2)(a)
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

Used for control and power applications in chemical plants, steel mills, industrial plants, utility substations and generating stations, residential and commercial buildings. May be used in Class 1, Div. 2 Hazardous Locations per NEC Art. 501. These cables also conform to Art. 392 "Cable Trays" and Art. 336 "Power and Control Tray Cable." Suitable for aerial, duct or direct burial.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	No. of Conductors	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3G-0803WG	8	7	10	3	0.060	0.600	283	55
3G-0804WG	8	7	10	4	0.060	0.655	373	55
3G-0603WG	6	7	8	3	0.060	0.684	386	75
3G-0604WG	6	7	8	4	0.060	0.752	488	60
3G-0403WG	4	7	8	3	0.080	0.876	653	95
3G-0404WG	4	7	8	4	0.080	0.970	828	76
3G-0203WG	2	7	6	3	0.080	1.005	948	104
3G-0204WG	2	7	6	4	0.080	1.117	1,211	104
3G-1013WG	1/0	19	6	3	0.080	1.207	1,451	170
3G-1014WG	1/0	19	6	4	0.080	1.344	1,832	136
3G-2023WG	2/0	19	6	3	0.080	1.297	1,738	195
3G-2024WG	2/0	19	6	4	0.080	1.452	2,223	156
3G-4043WG	4/0	19	4	3	0.110	1.530	2,652	260
3G-4044WG	4/0	19	4	4	0.110	1.768	3,457	208
3G-2503WG	250	37	4	3	0.110	1.740	3,128	290
3G-2504WG	250	37	4	4	0.110	1.937	4,046	232
3G-3503WG	350	37	3	3	0.110	1.961	4,215	350
3G-3504WG	350	37	3	4	0.110	2.180	5,469	280
3G-5003WG	500	37	2	3	0.110	2.234	5,892	430
3G-5004WG	500	37	2	4	0.110	2.494	7,556	344

Diameters and weights may vary among manufacturers

600 V Multiconductor

XLP/PVC Tray Cable

XLP insulation
PVC jacket
UL Listed Type TC

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed, bare copper per ASTM B3 and B8
2. INSULATION: Cross-Linked Polyethylene (XLP) per UL 44 requirements for Type XHHW-2
3. COLOR CODE: 12 and 10 AWG are color coded black, red and blue, 8 AWG and larger are colored black and numbered per ICEA Method 4 (printed numbers)
4. ASSEMBLY: Three insulated conductors and one bare UL Class B stranded copper ground conductor are cabled together with suitable non-hygroscopic fillers and binder to make round
5. OVERALL JACKET: Sunlight-resistant Polyvinyl Chloride (PVC) per UL 1277
6. STANDARDS: Meets UL 1277 requirements for Type TC cables having XHHW-2 conductors. Cables are listed for direct burial and meet the IEEE 1202 and UL 1685, 70,000 Btu/hr flame tests as well as the ICEA T-29-520, 210,000 Btu/hr flame test
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth per NEC Table 310.16, based on an ambient temperature of 30°C and a conductor temperature of 90°C
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

Used for control and power applications in chemical plants, steel mills, industrial plants, utility substations and generating stations, residential and commercial buildings. May be used in Class 1, Div. 2 Hazardous Locations per NEC Art. 501. These cables also conform to Art. 392 "Cable Trays" and Art. 336 "Power and Control Tray Cable." Suitable for aerial, duct or direct burial.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3H-1203	12	7	12	0.030	0.045	0.490	110	30
3H-1003	10	7	10	0.030	0.060	0.500	232	40
3H-0803	8	7	10	0.045	0.060	0.660	320	55
3H-0603	6	7	8	0.045	0.060	0.765	460	75
3H-0403	4	7	8	0.045	0.080	0.885	665	95
3H-0203	2	7	6	0.045	0.080	1.020	980	130
3H-0103	1	19	6	0.055	0.080	1.130	1,195	150
3H-1013	1/0	19	6	0.055	0.080	1.220	1,440	170
3H-2023	2/0	19	6	0.055	0.080	1.320	1,745	195
3H-3033	3/0	19	4	0.055	0.080	1.420	2,180	225
3H-4043	4/0	19	4	0.055	0.080	1.550	2,650	260
3H-2503	250	37	4	0.065	0.110	1.750	3,190	290
3H-3503	350	37	3	0.065	0.110	1.970	4,300	350
3H-5003	500	37	2	0.065	0.110	2.250	5,910	430

Unless otherwise permitted in the NEC, the overcurrent protection shall not exceed 20 A for 12 AWG and 30 A for 10 AWG.
Diameters and weights may vary among manufacturers.

600 V Multiconductor

XLP/LSZH Tray Cable

XLP insulation
LSZH jacket
UL Listed Type TC

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed, copper per ASTM B8
2. INSULATION: Cross-Linked Polyethylene (XLP) per ICEA S-73-532 (NEMA WC57) meets UL 44 requirements for Type XHHW-2 conductors
3. COLOR CODE: Conductors are color coded per ICEA Method 4 (printed numbers)
4. ASSEMBLY: Conductors are cabled with a single UL ground wire and fillers where necessary to make round
5. OVERALL JACKET: Low smoke zero halogen (LSZH) per UL 1277
6. STANDARDS: Meets UL 1277 requirements for Type TC cables having XHHW-2 conductors. Cables are listed for direct burial and meet the IEEE 1202 and UL 1685, 70,000 Btu/hr flame tests. Constructions with 3 or more conductors are listed for exposed runs (TC-ER)
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth with an ambient temperature of 30°C per NEC Table 310.16
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

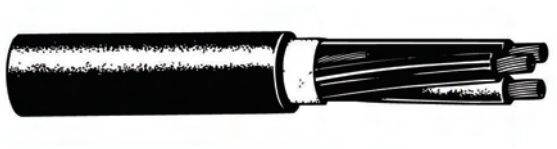
Used for control and power applications in chemical plants, steel mills, industrial plants, utility substations and generating stations, residential and commercial buildings where halogen content poses an environmental or safety concern. Suitable for aerial, duct or direct burial.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3LS-1003WG	10	7	10	3	0.030	0.060	0.500	237	30
3LS-0803WG	8	7	10	3	0.045	0.060	0.660	314	55
3LS-0603WG	6	7	8	3	0.045	0.060	0.765	456	75
3LS-0403WG	4	7	8	3	0.045	0.080	0.885	642	95
3LS-0203WG	2	10	6	3	0.045	0.080	1.020	979	130
3LS-0103WG	1	19	6	3	0.055	0.080	1.130	1,021	150
3LS-1013WG	1/0	19	6	3	0.055	0.080	1.220	1,439	170
3LS-2023WG	2/0	19	4	3	0.055	0.080	1.320	1,720	195
3LS-4043WG	4/0	19	4	3	0.055	0.080	1.550	2,614	260
3LS-2503WG	250	37	4	3	0.065	0.110	1.750	3,184	290
3LS-3503WG	350	37	3	3	0.065	0.110	1.970	4,187	350
3LS-5003WG	500	37	2	3	0.065	0.110	2.250	5,843	430

Diameters and weights may vary among manufacturers.

600 V Multiconductor

Bus Drop Cable



PVC insulation
PVC jacket

SPECIFICATIONS

1. CONDUCTOR: Stranded, bare, soft copper
2. INSULATION: Polyvinyl Chloride (PVC), per UL 83, color-coded black, white, red
3. ASSEMBLY: Three insulated conductors and three uninsulated ground wires are cabled together with one ground wire in each interstice, jute filled, wrapped with a suitable separator
4. OVERALL JACKET: Gray Polyvinyl Chloride (PVC)
5. AMPACITY: Based on not more than three conductors in raceway or cable or earth per NEC Table 310.16 at a conductor temperature of 60°C and an ambient temperature of 30°C
6. TEMPERATURE: 60°C
7. VOLTAGE: 600 V

APPLICATIONS

For use as drop cable from overhead bus duct to floor machines. Installs quickly without use of conduit for fixed or temporary power applications. Resistant to oil, grease, acids, cutting fluids and mechanical abuse.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Ground Wires No. x AWG	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3X-1403-09	14	7	3	3 x 18	0.030	0.045	0.400	120	20
3X-1203-09	12	7	3	3 x 16	0.030	0.045	0.440	165	25
3X-1003-09	10	7	3	3 x 14	0.030	0.045	0.500	230	30
3X-0803-09	8	7	3	3 x 14	0.045	0.060	0.670	265	40
3X-0603-09	6	7	3	3 x 14	0.060	0.060	0.810	520	55
3X-0403-09	4	7	3	3 x 12	0.060	0.080	0.950	810	70
3X-0203-09	2	7	3	3 x 12	0.060	0.080	1.100	1,050	95

Unless otherwise permitted in the NEC, the overcurrent protection shall not exceed 15 A for 14 AWG, 20 A for 12 AWG and 30 A for 10 AWG.
Diameters and weights may vary among manufacturers.

600 V Single Conductor

EPR/TS-CPE

EPR insulation
TS-CPE jacket
90°C wet/dry
UL Listed, VW-1

SPECIFICATIONS

1. CONDUCTOR: Tin-coated compressed Class B stranding per ASTM B8 and ASTM B33
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-95-658 (NEMA WC70)
3. OVERALL JACKET: Thermoset Chlorinated Polyethylene (TS-CPE)
4. STANDARDS: Cable is listed as Type USE-2 per UL 854 and RHH/RHW-2 per UL 44. All sizes have VW-1 flame rating per UL 2556. In sizes 1/0 and larger cable is rated "for CT use" and passes the IEEE 383 and IEEE1202/CSA FT-4 flame tests. Cable meets the limited smoke (-LS) requirements of UL 1685
5. AMPACITY: Based on not more than three conductors in raceway or cable or earth per 2008 NEC Table 310.16 with an ambient temperature of 30°C
6. TEMPERATURE: 90°C
7. VOLTAGE: 600 V

APPLICATIONS

General purpose wiring for control, switchboard, lighting and power circuits in residential and commercial buildings, industrial plants and for utility substations, meters and generating plants. Ideally suited for applications where increased durability is required.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3BE-1401	14	7	0.030	0.015	0.17	25	25
3BE-1201	12	7	0.030	0.015	0.19	35	30
3BE-1001	10	7	0.030	0.015	0.21	50	40
3BE-0801	8	7	0.045	0.030	0.28	81	55
3BE-0601	6	7	0.045	0.030	0.35	130	75
3BE-0401	4	7	0.045	0.030	0.40	185	95
3BE-0201	2	7	0.045	0.030	0.46	275	130
3BE-0101	1	19	0.055	0.045	0.54	360	150
3BE-1011	1/0	19	0.055	0.045	0.59	440	170
3BE-2021	2/0	19	0.055	0.045	0.63	535	195
3BE-3031	3/0	19	0.055	0.045	0.68	655	225
3BE-4041	4/0	19	0.055	0.045	0.74	810	260
3BE-2501	250	37	0.065	0.065	0.85	990	290
3BE-3501	350	37	0.065	0.065	0.96	1,335	350
3BE-5001	500	37	0.065	0.065	1.10	1,850	430
3BE-7501	750	61	0.080	0.065	1.32	2,720	535
3BE-10001	1000	61	0.080	0.065	1.47	3,560	615

All part numbers require color code designation.
See Color Code Chart in the technical information section.
For a similar cable with more flexible (Class H) stranding and a single layer TS-CPE insulation/jacket use prefix 3BF when ordering.
Diameters and weights may vary among manufacturers.

600 V Single Conductor

XLP/USE-2 CT Rated

XLP
90°C wet/dry
UL Listed for CT use

SPECIFICATIONS

1. CONDUCTOR: Class B stranding, annealed, bare copper per ASTM B-8
2. INSULATION: Cross-Linked Polyethylene (XLP) per ICEA S-95-658 (NEMA WC70)
3. STANDARDS: Cable is listed as Type USE-2 per UL 854 and RHH/RHW-2 per UL 44. Rated "for CT use" and passes the IEEE 383 and IEEE 1202/CSA FT-4 flame tests
4. AMPACITY: Based on not more than three conductors in raceway or cable or earth per NEC 310.16 with an ambient temperature of 30°C
5. TEMPERATURE: 90°C
6. VOLTAGE: 600 V

APPLICATIONS

General purpose wiring for control, switchboard, lighting and power circuits in residential and commercial buildings, industrial plants as well as for utility substations and generating plants.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3B-1011-CT-02	1/0	19	0.080	0.532	386	170
3B-2021-CT-02	2/0	19	0.080	0.578	478	195
3B-3031-CT-02	3/0	19	0.080	0.629	594	225
3B-4041-CT-02	4/0	19	0.080	0.687	739	260
3B-2501-CT-02	250	37	0.095	0.769	882	290
3B-3501-CT-02	350	37	0.095	0.875	1,212	350
3B-5001-CT-02	500	37	0.095	1.007	1,702	430
3B-7501-CT-02	750	61	0.110	1.250	2,603	535
3B-10001-CT-02	1000	61	0.110	1.410	2,880	615

2,400 V Single Conductor - Nonshielded

EPR/CPE or CSPE

EPR insulation
CPE or CSPE jacket
Nonshielded
UL Listed Type MV-90

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed, bare copper per ASTM B-3 and B-8, strand shield is an extruded semiconducting compound per ICEA S-96-659 (NEMA WC71)
2. INSULATION: Ethylene Propylene Rubber (EPR) which meets or exceeds ICEA S-96-659 and UL 1072. For wet or dry locations per UL 1072 and NEC Article 328
3. OVERALL JACKET: CPE or CSPE
4. STANDARDS: Listed Type MV-90 per UL 1072 for wet and dry locations. Meets requirements of ICEA S-96-659 (NEMA WC71). Sizes 1/0 and larger marked Sunlight Resistant and pass IEEE 383 70,000 Btu/hr flame test and are marked "for CT use"
5. AMPACITY: Based on three single conductor cables in isolated conduit in air per NEC Table 310.73 with a conductor temperature of 90°C and an ambient temperature of 40°C
6. TEMPERATURE: 90°C
7. VOLTAGE: 2,400 V

APPLICATIONS

For use in power circuits up to 2,400 V where shields cannot be properly terminated and where space is limited. Cable is used for power applications in chemical plants, refineries, steel mills, industrial plants, utility substations and generating stations. Ideally suited for applications where increased durability is required.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3DC-0601	6	7	0.125	0.080	0.65	270	75
3DC-0401	4	7	0.125	0.080	0.70	340	97
3DC-0201	2	7	0.125	0.080	0.76	450	130
3DC-1011	1/0	19	0.125	0.080	0.84	610	180
3DC-2021	2/0	19	0.125	0.080	0.88	700	205
3DC-3031	3/0	19	0.125	0.095	0.96	875	240
3DC-4041	4/0	37	0.125	0.095	1.02	1,020	280
3DC-2501	250	37	0.140	0.110	1.13	1,225	315
3DC-3501	350	37	0.140	0.110	1.23	1,625	385
3DC-5001	500	37	0.140	0.110	1.37	2,150	475
3DC-7501	750	61	0.155	0.125	1.62	3,110	600
3DC-10001	1000	61	0.155	0.125	1.77	3,800	690

Diameters and weights may vary among manufacturers.

5 kV Single Conductor - Shielded

EPR/CPE/Unishield

EPR insulation
CPE jacket
Shielded
133% insulation level

SPECIFICATIONS

1. CONDUCTOR: Class B compact stranded, annealed bare copper per ASTM B-3 and B-496, strand shield is an extruded semiconducting compound
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-93-639 (NEMA WC74)
3. SHIELD SYSTEM: Combination of six copper drain wires and extruded semiconducting Chlorinated Polyethylene (CPE) jacket
4. STANDARDS: Listed Type MV-105 per UL 1072. Meets requirements of ICEA S-93-639 / NEMA WC74. Passes IEEE 1202 (70,000 Btu/hr)/CSA FT4. Sizes 1/0 and larger marked Sunlight Resistant and pass UL 1685 70,000 Btu/hr flame test and are UL rated "for CT use"
5. AMPACITY: Based on three single conductor cables in isolated conduit in air per NEC Table 310.73 with a conductor temperature of 90°C and an ambient temperature of 40°C
6. TEMPERATURE: 105°C
7. VOLTAGE: 5 kV

APPLICATIONS

For use in power circuits up to 5 kV when installed in open air, conduit, duct, or buried direct in earth, for wet and dry locations. Used for power applications in chemical plants, refineries, steel mills, industrial plants, utility substations and generating stations.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal Insulation O.D. (in.)	Shield Drain Wire AWG	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3USA-0201	2	7	0.115	0.53	20	0.075	0.71	422	130
3USA-1011	1/0	19	0.115	0.60	20	0.075	0.79	573	180
3USA-2021	2/0	19	0.115	0.64	20	0.075	0.84	687	205
3USA-4041	4/0	19	0.115	0.74	19	0.080	0.94	974	280
3USA-2501	250	37	0.115	0.79	18	0.080	1.02	1,141	315
3USA-3501	350	37	0.115	0.88	18	0.080	1.12	1,500	385
3USA-5001	500	37	0.115	1.01	17	0.085	1.25	2,036	475
3USA-7501	750	61	0.115	1.18	17	0.085	1.43	2,905	600
3USA-10001	1000	61	0.115	1.38	16	0.100	1.62	3,800	690

5 kV Single Conductor - Shielded

Lead-free EPR/PVC Copper Tape Shield

EPR insulation
PVC jacket
Shielded
133% insulation level
Lead-free
No lube required

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed, bare copper per ASTM B3 and B8, (compact stranding per ASTM B-496 is available), strand shield is an extruded conducting thermosetting compound
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-93-639 (NEMA WC74)
3. INSULATION SHIELD: Over the insulation is an extruded semi-conducting, thermosetting insulation shield. Metallic shield is a helically applied 5 mil uncoated copper tape
4. OVERALL JACKET: Sunlight-resistant black Polyvinyl Chloride (PVC), meeting the requirements of ICEA and UL 1072. Lubricant built into jacket to facilitate installation
5. STANDARDS: Listed as Type MV-105 per UL 1072, meets the requirements of ICEA S-93-639, sizes 1/0 and larger marked "for CT use" and pass UL 1685 70,000 Btu/hr flame test
6. AMPACITY: Based on three single conductor cables in isolated conduit in air per NEC Table 310.73 with a conductor temperature of 90°C and an ambient temperature of 40°C
7. TEMPERATURE: 105°C
8. VOLTAGE: 5 kV 133% and 8 kV 100%

APPLICATIONS

For use in power circuits up to 8 kV when installed in open air, conduit, duct or buried directly in the earth, for wet and dry locations. Used for power applications in chemical plants, refineries, steel mills, industrial plants, utility substations and generating stations.

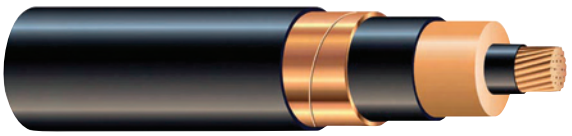
Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal Insulation O.D. (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3DA-0201-SW	2	7	0.115	0.76	0.060	0.78	450	130
3DA-1011-SW	1/0	19	0.115	0.65	0.080	0.91	670	180
3DA-2021-SW	2/0	19	0.115	0.69	0.080	0.96	780	205
3DA-4041-SW	4/0	19	0.115	0.80	0.080	1.05	1,085	280
3DA-2501-SW	250	37	0.115	0.86	0.080	1.21	1,225	315
3DA-3501-SW	350	37	0.115	0.96	0.080	1.21	1,500	385
3DA-5001-SW	500	37	0.115	1.09	0.080	1.36	2,130	475
3DA-7501-SW	750	61	0.115	1.28	0.080	1.55	3,025	600
3DA-10001-SW	1000	61	0.115	1.43	0.110	1.75	3,980	690

Cables with compact stranding have slightly smaller overall diameters.
Diameters and weights may vary among manufacturers.

5 kV Single Conductor - Shielded

EPR/PVC Copper Tape Shield

EPR insulation
PVC jacket
Shielded
133% insulation level



SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed, bare copper per ASTM B-3 and B-8, (compact stranding per ASTM B-496 is available). Strand shield is an extruded semi-conducting thermoset
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-93-639 (NEMA WC74)
3. INSULATION SHIELD: Extruded semi-conducting thermoset insulation shield. Metallic shield is a helically applied 5 mil uncoated copper tape
4. OVERALL JACKET: Sunlight-resistant, black Polyvinyl Chloride (PVC)
5. STANDARDS: Listed as Type MV-105 per UL 1072 and meets the requirements of ICEA S-93-639. Sizes 1/0 and larger marked "for CT use" and pass UL 1685 70,000 Btu/hr flame test
6. AMPACITY: Based on three single conductor cables in isolated conduit in air per NEC Table 310.73 with a conductor temperature of 90°C and an ambient temperature of 40°C
7. TEMPERATURE: 105°C
8. VOLTAGE: 5 kV 133% and 8 kV 100%

APPLICATIONS

For use in power circuits up to 8 kV when installed in open air, conduit, duct or buried directly in the earth, for wet and dry locations. Used for power applications in chemical plants, refineries, steel mills, industrial plants, utility substations and generating stations.

5 KV SINGLE CONDUCTOR - SHIELDED

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal Insulation O.D. (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3DA-0201	2	7	0.115	0.57	0.060	0.78	470	130
3DA-1011	1/0	19	0.115	0.65	0.080	0.91	670	180
3DA-2021	2/0	19	0.115	0.69	0.080	0.96	780	205
3DA-4041	4/0	19	0.115	0.80	0.080	1.05	1,085	280
3DA-2501	250	37	0.115	0.86	0.080	1.11	1,225	315
3DA-3501	350	37	0.115	0.96	0.080	1.21	1,500	385
3DA-5001	500	37	0.115	1.09	0.080	1.36	2,130	475
3DA-7501	750	61	0.115	1.28	0.080	1.55	3,025	600
3DA-10001	1000	61	0.115	1.43	0.110	1.75	3,980	690

Cables with compact stranding have slightly smaller overall diameters.
Diameters and weights may vary among manufacturers.

5 kV Multiconductor - Shielded

Three Conductor EPR/PVC Shielded

EPR insulation
PVC jacket
Shielded
UL Listed Type MV-105

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed bare copper
2. CONDUCTOR SHIELD: Conductor is covered with an extruded semiconducting thermoset compound bonded to the insulation
3. INSULATION: Ethylene Propylene Rubber (EPR) with thermoset semiconducting layer and 5 mil copper tape shield
4. ASSEMBLY: The three conductors are cabled with a Class B stranded, uncoated copper grounding conductor and suitable fillers in compliance with UL 1072. A binder tape is applied overall
5. OVERALL JACKET: Sunlight-resistant black Polyvinyl Chloride (PVC) meeting ICEA and UL requirements
6. STANDARDS: Listed Type MV-105 per UL 1072 and meets the requirements of ICEA S-93-639 and AEIC CS8. Passes UL 1685 70,000 Btu/hr flame test. Sizes 1/0 and larger marked "for CT use"
7. AMPACITY: Based on three single conductor cables in isolated conduit in air per NEC Table 310.75 with a conductor temperature of 90°C and an ambient temperature of 40°C
8. TEMPERATURE: 105°C
9. VOLTAGE: 5 kV 133% and 8 kV 100%

APPLICATIONS

For use in power circuits up to 8 kV when installed in open air, conduit, duct or buried directly in the earth, for wet and dry locations. Used for power applications in chemical plants, refineries, steel mills, industrial plants, utility substations and generating stations.

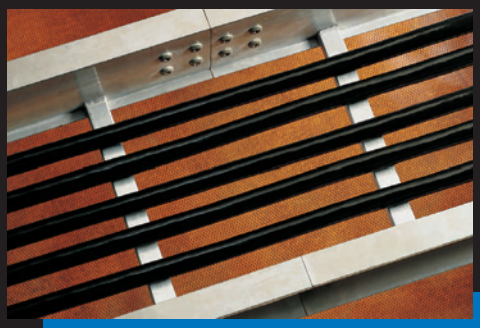
5 KV 115 EP W/GRD CTS 133% CT-USE

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3JS-0603	6	7	6	3	0.115	0.080	1.29	935	95
3JS-0403	4	7	6	3	0.115	0.080	1.39	1,158	125
3JS-0203	2	7	6	3	0.115	0.080	1.51	1,510	160
3JS-1013	1/0	19	4	3	0.115	0.080	1.66	2,030	210
3JS-2023	2/0	19	4	3	0.115	0.080	1.82	2,445	235
3JS-4043	4/0	19	3	3	0.115	0.110	2.05	3,415	320
3JS-3503	350	37	2	3	0.115	0.110	2.36	5,061	400
3JS-5003	500	37	1	3	0.115	0.110	2.63	6,800	485
3JS-7503	750	61	1/0	3	0.115	0.140	3.14	9,490	525

Diameters and weights may vary among manufacturers.

Brand Rex
BRAND

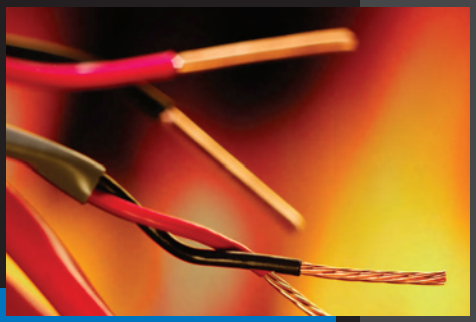
CAROL®
BRAND



Instrumentation & Control Cables

Medium-Voltage Cables

Rubber Cord



Fire Alarm Cables

General Cable is a global manufacturer of application-specific power, control and instrumentation cable products.

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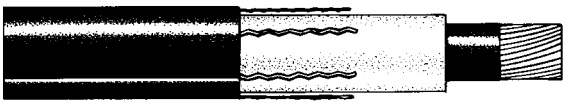
General Cable

ANIXTER®

15 kV - 133% Insulation Level

EPR/CPE Unishield

EPR insulation
CPE jacket
Shielded (Unishield)
133% insulation level



SPECIFICATIONS

1. CONDUCTOR: Class B, compact stranded, annealed bare copper per ASTM B-3 and B-496, strand shield is an extruded semiconducting compound
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-93-639 (NEMA WC74)
3. SHIELD SYSTEM: Combination of six copper drain wires and extruded semiconducting Chlorinated Polyethylene (CPE) jacket
4. STANDARDS: UL Listed Type MV-105 per UL 1072. Also meets ICEA S-93-639/NEMA WC74 and ICEA S-97-682. Passes IEEE 1202 70,000 Btu/hr flame test. Sizes 1/0 and larger marked "Sunlight-Resistant for CT use" and pass UL 1685 70,000 Btu/hr flame test
5. AMPACITY: Based on three single conductor cables in isolated conduit in air per NEC Table 310.73 with a conductor temperature of 90°C and an ambient temperature of 40°C
6. TEMPERATURE: 105°C
7. VOLTAGE: 15 kV

APPLICATIONS

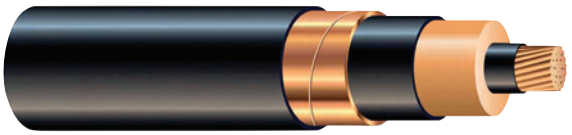
For use in power circuits up to 15 kV when installed in open air, conduit, duct, or buried direct in earth, for wet and dry locations. Used for power applications in chemical plants, refineries, steel mills, industrial plants, utility substations and generating stations.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal Insulation O.D. (in.)	Shield Drain Wire AWG	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3USC-0201	2	7	0.220	0.74	19	0.080	0.94	586	150
3USC-1011	1/0	19	0.220	0.81	18	0.080	1.02	767	195
3USC-2021	2/0	19	0.220	0.86	18	0.080	1.06	880	225
3USC-4041	4/0	19	0.220	0.96	18	0.080	1.14	1,211	295
3USC-2501	250	37	0.220	1.00	17	0.085	1.25	1,384	330
3USC-3501	350	37	0.220	1.10	17	0.085	1.35	1,762	395
3USC-5001	500	37	0.220	1.22	17	0.085	1.47	2,298	480
3USC-7501	750	61	0.220	1.39	16	0.100	1.68	3,256	585
3USC-10001	1000	61	0.220	1.55	16	0.115	1.84	4,141	675

15 kV - 133% Insulation Level

EPR/PVC Copper Tape Shield

EPR insulation
PVC jacket
Shielded
133% insulation level



SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed, bare copper per ASTM B-3, (compact stranding per ASTM B-496 is available). Strand shield is an extruded semiconducting, thermosetting compound
2. INSULATION: Ethylene Propylene Rubber (EPR), physical and electrical properties are in accordance with ICEA S-93-639 (NEMA WC74)
3. INSULATION SHIELD: Extruded semiconducting thermoset insulation shield. Metallic shield is a helically applied 5 mil uncoated copper tape
4. OVERALL JACKET: Sunlight-resistant black Polyvinyl Chloride (PVC)
5. STANDARDS: Listed Type MV-105 per UL 1072 and meets the requirements of ICEA S-93-639. Sizes 1/0 and larger marked "for CT use" and pass UL 1685 70,000 Btu/hr flame test
6. AMPACITY: Based on three single conductor cables in isolated conduit in air per 2008 NEC Table 310.73 with a conductor temperature of 90°C and an ambient temperature of 40°C
7. TEMPERATURE: 105°C
8. VOLTAGE: 15 kV

APPLICATIONS

For use in power circuits up to 15 kV when installed in open air, conduit, duct, or direct buried, for wet and dry locations. Used for power applications in chemical plants, refineries, steel mills, industrial plants, utility substations and generating stations.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal Insulation O.D. (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3FE-0201	2	7	0.220	0.78	0.080	1.04	685	150
3FE-0101	1	19	0.220	0.82	0.080	1.08	760	170
3FE-1011	1/0	19	0.220	0.86	0.080	1.13	870	195
3FE-2021	2/0	19	0.220	0.91	0.080	1.16	995	225
3FE-3031	3/0	19	0.220	0.96	0.080	1.24	1,130	260
3FE-4041	4/0	19	0.220	1.02	0.080	1.29	1,275	295
3FE-2501	250	37	0.220	1.07	0.080	1.34	1,465	330
3FE-3501	350	37	0.220	1.18	0.080	1.44	1,840	395
3FE-5001	500	37	0.220	1.30	0.080	1.57	2,395	480
3FE-7501	750	61	0.220	1.49	0.110	1.82	3,415	585
3FE-10001	1000	61	0.220	1.64	0.110	2.03	4,435	675

Cables with compact stranding have slightly smaller overall diameters. Diameters and weights may vary among manufacturers.

15 kV - 133% Insulation Level

Lead-free EPR/PVC Copper Tape Shield

EPR insulation
PVC jacket
Shielded
133% insulation level
Lead-free
No lube required

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed, bare copper per ASTM B-3, (compact stranding per ASTM B-496 is available). Strand shield is an extruded semiconducting, thermosetting compound
2. INSULATION: Ethylene Propylene Rubber (EPR), physical and electrical properties are in accordance with ICEA S-93-639 (NEMA WC74)
3. INSULATION SHIELD: Extruded semiconducting thermoset insulation shield. Metallic shield is a helically applied 5 mil uncoated copper tape
4. OVERALL JACKET: Sunlight-resistant black Polyvinyl Chloride (PVC)
5. STANDARDS: Listed Type MV-105 per UL 1072 and meets the requirements of ICEA S-93-639. Sizes 1/0 and larger marked "for CT use" and pass UL 1685 70,000 Btu/hr flame test
6. AMPACITY: Based on three single conductor cables in isolated conduit in air per 2008 NEC Table 310.73 with a conductor temperature of 90°C and an ambient temperature of 40°C
7. TEMPERATURE: 105°C
8. VOLTAGE: 15 kV

APPLICATIONS

For use in power circuits up to 15 kV when installed in open air, conduit, duct, or direct buried, for wet and dry locations. Used for power applications in chemical plants, refineries, steel mills, industrial plants, utility substations and generating stations.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal Insulation O.D. (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3FE-0201-SW	2	19	0.220	0.78	0.080	1.04	685	150
3FE-1011-SW	1/0	19	0.220	0.86	0.080	1.13	870	195
3FE-2021-SW	2/0	19	0.220	0.91	0.080	1.16	995	225
3FE-4041-SW	4/0	19	0.220	1.02	0.080	1.22	1,275	295
3FE-2501-SW	250	37	0.220	1.10	0.080	1.30	1,400	330
3FE-3501-SW	350	37	0.220	1.18	0.080	1.44	1,840	395
3FE-5001-SW	500	37	0.220	1.30	0.080	1.57	2,395	480
3FE-7501-SW	750	61	0.220	1.49	0.110	1.82	3,415	585
3FE-10001-SW	1000	61	0.220	1.64	0.110	2.03	4,435	675

Cables with compact stranding have slightly smaller overall diameters.
Diameters and weights may vary among manufacturers.

35 kV - 100% Insulation Level

Lead-free EPR/PVC Copper Tape Shield

EPR insulation
PVC jacket
Shielded
100% insulation level
Lead-free
No lube required

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed copper per ASTM B-3 and B-8. Strand shield is an extruded semiconducting thermoset
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-93-639 (NEMA WC74)
3. INSULATION SHIELD: Extruded semiconducting, thermoset insulation shield. Metallic shield is a helically applied 5 mil uncoated copper shielding tape
4. OVERALL JACKET: Sunlight-resistant, black Polyvinyl Chloride (PVC). Lubricant built into jacket to facilitate installation
5. STANDARDS: Listed as Type MV-105 per UL 1072 and meets the requirements of ICEA S-93-639 (NEMA WC74). Sizes 1/0 and larger pass UL 1685 70,000 Btu/hr flame test
6. AMPACITY: Based on three single conductor cables in isolated conduit in air per NEC Table 310.73 with a conductor temperature of 90°C and an ambient temperature of 40°C
7. TEMPERATURE: 105°C
8. VOLTAGE: 35 kV

APPLICATIONS

For use in power circuits up to 35 kV when installed in open air, conduit, duct or direct burial for wet or dry locations. Used for power applications in chemical plants, refineries, steel mills, industrial plants, utility substations and generating stations.

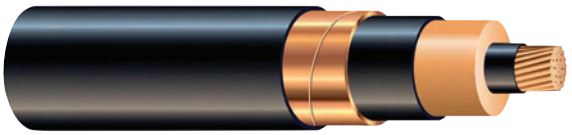
Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal Insulation O.D. (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3DX-1011-SW	1/0	19	0.345	1.12	0.080	1.39	1,160	195
3DX-2021-SW	2/0	19	0.345	1.16	0.080	1.43	1,190	225
3DX-3031-SW	3/0	19	0.345	1.21	0.080	1.48	1,445	260
3DX-4041-SW	4/0	19	0.345	1.27	0.080	1.54	1,635	295
3DX-2501-SW	250	37	0.345	1.33	0.080	1.60	1,805	330
3DX-3501-SW	350	37	0.345	1.43	0.080	1.70	2,205	395
3DX-5001-SW	500	37	0.345	1.56	0.110	1.91	2,920	480
3DX-7501-SW	750	61	0.345	1.75	0.110	2.10	3,895	585
3DX-10001-SW	1000	61	0.345	1.90	0.110	2.25	4,840	675

0.420 in. insulation thickness (133% insulation level) available upon request.
Diameters and weights may vary among manufacturers.

35 kV - 100% Insulation Level

EPR/PVC Copper Tape Shield

EPR insulation
PVC jacket
Shielded
100% insulation level



SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed copper per ASTM B-3 and B-8, strand shield is an extruded semiconducting thermoset
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-93-639 (NEMA WC74)
3. INSULATION SHIELD: Extruded semiconducting thermoset insulation shield. Metallic shield is a helically applied 5 mil uncoated copper shielding tape
4. OVERALL JACKET: Sunlight-resistant, black Polyvinyl Chloride (PVC)
5. STANDARDS: Listed as Type MV-105 per UL 1072 and meets the requirements of ICEA S-93-639. Sizes 1/0 and larger pass UL 1685 70,000 Btu/hr flame test
6. AMPACITY: Based on three single conductor cables in isolated conduit in air per NEC Table 310.73 with a conductor temperature of 90°C and an ambient temperature of 40°C
7. TEMPERATURE: 105°C
8. VOLTAGE: 35 kV

APPLICATIONS

For use in power circuits up to 35 kV when installed in open air, conduit, duct or direct burial for wet or dry locations. Used for power applications in chemical plants, refineries, steel mills, industrial plants, utility substations and generating stations.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal Insulation O.D. (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3DX-1011	1/0	19	0.345	1.12	0.080	1.39	1,160	195
3DX-2021	2/0	19	0.345	1.16	0.080	1.43	1,190	225
3DX-3031	3/0	19	0.345	1.21	0.080	1.48	1,445	260
3DX-4041	4/0	19	0.345	1.27	0.080	1.54	1,635	295
3DX-2501	250	37	0.345	1.33	0.080	1.60	1,805	330
3DX-3501	350	37	0.345	1.43	0.080	1.70	2,205	395
3DX-5001	500	37	0.345	1.56	0.110	1.91	2,920	480
3DX-7501	750	61	0.345	1.75	0.110	2.10	3,895	585
3DX-10001	1000	61	0.345	1.90	0.110	2.25	4,840	675

0.420 in. insulation thickness (133% insulation level) available upon request.
Diameters and weights may vary among manufacturers.

Airport Lighting Cable

Single Conductor Type L-824-B or L-824-C

FAA approved

Nonshielded

SPECIFICATIONS

1. Completed cables conform to Federal Aviation Agency (FAA) Specification L-824, latest edition
2. Type B 5,000 V: Annealed, soft-drawn copper conductor, Class B stranded; suitable separator tape 90°C EPR insulation; PVC jacket (other jackets optional) overall; surface printed L-824-B plus conductor size, voltage and manufacturer's name
3. Type C 5,000 V: Annealed, soft-drawn copper conductor, Class B stranded; suitable separator tape 90°C XLP insulation; surface printed L-824-C plus conductor size, voltage and manufacturer's name

APPLICATIONS

For use in underground installations for airport lighting and control.

Anixter No.	Conductor Size AWG	No. of Strands	Designation	Voltage	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
3Z-0805B	8	7	L-824-B	5,000	0.090	0.030	0.41	115
3Z-0805C	8	7	L-824-C	5,000	0.110	-----	0.38	95
3Z-0605C	6	7	L-824-C	5,000	0.110	-----	0.42	125

Diameters and weights may vary among manufacturers.

15 kV Ignition Cable

Single Conductor Type GTO

PE insulation
PVC jacket
Nonshielded

SPECIFICATIONS

1. CONDUCTOR: Flexible tinned copper
2. INSULATION: Polyethylene (PE), black in color, meets UL Standard 814 Gas-Tube-Sign and Ignition Cable

APPLICATIONS

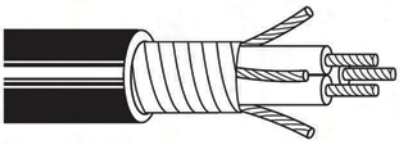
Used between high-voltage terminals on sign transformers and signs. Also used for oil burner ignition cable. This cable may be used indoors or outdoors. UL Listed for use per NEC Article 600.32 - Neon Secondary-Circuit Wiring, over 1,000 volts.

Anixter No.	Conductor Size AWG	No. of Strands	Voltage	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
3GTO-15	14	19	5,000-15,000	0.264	50

Diameters and weights may vary among manufacturers.

Variable-frequency Drive Cable

VFD



XLP insulation
PVC jacket
Type TC
90°C
UL Listed

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, tinned copper per ASTM B-3, B-33
2. INSULATION: Cross-Linked Polyethylene (XLP) per ICEA S-95-685 (NEMA WC70) meets UL requirements
3. COLOR CODE: Conductors are coded per ICEA Method 4 (printed numbers)
4. ASSEMBLY: Three insulated conductors are cabled with three uninsulated grounds and an overall copper tape shield
5. OVERALL JACKET: Black sunlight-resistant Polyvinyl Chloride (PVC) per UL 1277
6. STANDARDS: Meets the UL requirements for Type TC cables having XHHW-2 conductors. Cables are listed for direct burial and meet the IEEE 1202, IEEE 383, and UL 1685, 70,000 Btu/hr flame tests as well as the ICEA T-29-520, 210,000 Btu/hr flame test
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth per 2008 NEC Table 310.16 with a conductor temperature of 90°C and an ambient temperature of 30°C. All 4-conductor values have been derated per 2008 NEC Table 310.15(B)(2)(a)
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V or 2 kV

APPLICATIONS

Variable-frequency drives (VFDs), also known as variable-speed or adjustable-speed drives are used to power AC motors in a variety of industrial motion control, commercial flow/pumping, and extrusion applications. Benefits of using a VFD over traditional DC drives include more precise motor control and improved power efficiency. While there are many benefits to using VFDs, their use requires special considerations for other drive system components; especially the drive's output cabling. These drive systems require cables that are specifically designed for VFD applications in order to improve drive system reliability while negating the impact of RFI/EMI.

VFD 600 V

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Ground Wires No. x AWG	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2ACD-1403	14	7	3	3 x 18	0.030	0.045	0.412	134	25
2ACD-1203	12	7	3	3 x 16	0.030	0.045	0.453	178	30
2ACD-1003	10	7	3	3 x 14	0.030	0.045	0.511	260	40
3ACD-0803	8	7	3	3 x 14	0.045	0.060	0.672	396	55
3ACD-0603	6	7	3	3 x 12	0.045	0.060	0.780	537	75
3ACD-0403	4	7	3	3 x 12	0.045	0.080	0.822	765	95
3ACD-0203	2	7	3	3 x 10	0.045	0.080	1.007	1,085	130
3ACD-1013	1/0	19	3	3 x 10	0.055	0.080	1.231	1,500	170

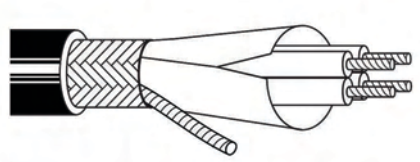
VFD 2 KV

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Ground Wires No. x AWG	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2ACD-1403-2KV	14	7	3	3 x 18	0.030	0.030	0.580	189	25
2ACD-1203-2KV	12	7	3	3 x 16	0.030	0.045	0.615	249	30
2ACD-1003-2KV	10	7	3	3 x 14	0.030	0.045	0.670	326	40
3ACD-0803-2KV	8	7	3	3 x 14	0.070	0.060	0.770	441	55
3ACD-0603-2KV	6	7	3	3 x 12	0.045	0.060	0.895	615	75
3ACD-0403-2KV	4	7	3	3 x 12	0.045	0.080	0.995	858	95
3ACD-0203-2KV	2	7	3	3 x 10	0.045	0.080	1.125	1,240.3	130
3ACD-1013-2KV	1/0	19	3	3 x 6	0.055	0.080	1.385	1,850	170
3ACD-2023-2KV	2/0	19	3	3 x 5	0.090	0.080	1.480	2,160	195
3ACD-4043-2KV	4/0	19	3	3 x 4	0.090	0.110	1.780	3,240	260
3ACD-3503-2KV	350	37	3	3 x 2	0.105	0.110	2.162	5,105	350
3ACD-5003-2KV	500	37	3	3 x 1	0.110	0.110	2.455	6,933	430

Variable-frequency Drive Cable

Belden VFD

XLPE insulation
PVC jacket
UL Listed Type TC
90°C , 1,000 V



SPECIFICATIONS

1. CONDUCTOR: Stranded, tinned copper per ASTM B-3, B-33
2. INSULATION: Cross-Linked Polyethylene (XLPE) per ICEA S-95-685 (NEMA WC70) meets UL requirements
3. COLOR CODE: Circuit conductors are coded per ICEA Method 4 (printed numbers)
4. ASSEMBLY: Copper tape shielded: 3-conductor stranded TC conductors plus three bare copper grounds. Foil/braid shielded: 3 stranded TC conductors plus one full-sized PVC insulated green ground. Full-sized TC drain
5. STANDARDS: Meets the UL requirements for Type TC cables having XHHW-2 conductors. Cables are listed for direct burial and meet the IEEE 1202, IEEE 383, and UL 1685, 70,000 Btu/hr flame tests as well as the ICEA T-29-520, 210,000 Btu/hr flame test. Foil/braid cables are also UL rated for 1,000 V Flexible Motor Supply Cable applications.
6. AMPACITY: Based on not more than three conductors in raceway or cable or earth per NEC Table 310.16 with a conductor temperature of 90°C and an ambient temperature of 30°C. All 4-conductor values have been derated per 2008 NEC Table 310.15(B)(2)(a)
7. TEMPERATURE: 90°C
8. VOLTAGE: 600 V / 1 kV

APPLICATIONS

Variable-frequency drives (VFDs), also known as variable-speed or adjustable-speed drives are used to power AC motors in a variety of industrial motion control, commercial flow/pumping, and extrusion applications. Benefits of using a VFD over traditional DC drives include more precise motor control and improved power efficiency. While there are many benefits to using VFDs, their use requires special considerations for other drive system components; especially the drive's output cabling. These drive systems require cables that are specifically designed for VFD applications in order to improve drive system reliability while negating the impact of RFI/EMI.

1 KV COPPER TAPE SHIELD

Anixter No.	Belden Part Number	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3ACD-0103-1KV-B	29528	1	133	3	0.057	0.080	1.200	1,439	150
3ACD-1013-1KV-B	29529	1/0	133	3	0.057	0.080	1.290	1,843	170
3ACD-2023-1KV-B	29530	2/0	133	3	0.057	0.080	1.400	2,148	195
3ACD-3033-1KV-B	29531	3/0	133	3	0.057	0.080	1.520	2,538	225
3ACD-4043-1KV-B	29532	4/0	133	3	0.057	0.110	1.680	3,264	260

1 KV OVERALL FOIL PLUS 85% TC BRAID SHIELD

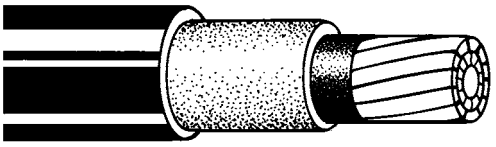
Anixter No.	Belden Part Number	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2ACD-1603FB-1KV-B	29500	16	26	3	0.045	0.060	0.530	160	18
2ACD-1403FB-1KV-B	29501	14	41	3	0.045	0.070	0.600	190	25
2ACD-1203FB-1KV-B	29502	12	65	3	0.045	0.070	0.650	250	30
2ACD-1003FB-1KV-B	29503	10	105	3	0.045	0.070	0.690	350	40
3ACD-0803FB-1KV-B	29504	8	133	3	0.060	0.070	0.930	604	55
3ACD-0603FB-1KV-B	29505	6	133	3	0.060	0.080	1.020	810	75
3ACD-0403FB-1KV-B	29506	4	133	3	0.060	0.080	1.160	1,129	95
3ACD-0203FB-1KV-B	29507	2	133	3	0.060	0.080	1.340	1,630	130

1 KV VFD WITH BRAKE PAIR

Anixter No.	Belden Part Number	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Signal Pair Individually Shielded	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2ACD-1603+16-1PR-B	29510	16	26	3	16	0.030	0.075	0.75	259	18
2ACD-1403+16-1PR-B	29511	14	41	3	16	0.030	0.075	0.82	275	25
2ACD-1203+16-1PR-B	29512	12	65	3	16	0.045	0.080	0.90	373	30
2ACD-1003+16-1PR-B	29513	10	105	3	16	0.045	0.105	0.99	493	40

Jumper Cable

5-15 kV Jumper Cable Nonshielded



EPR insulation/jacket

SPECIFICATIONS

1. CONDUCTOR: Extra flexible, rope-stranded copper with a semi-conducting tape applied over the conductor
2. INSULATION: Red Ethylene Propylene Rubber (EPR) per ICEA S-96-659 (NEMA WC71)
3. AMPACITY: Based on insulated single conductor isolated in air with a conductor temperature of 90°C and an ambient temperature of 40°C per 2008 NEC Table 310.69
4. TEMPERATURE: 90°C
5. VOLTAGE: 5/15 kV

APPLICATIONS

Temporary jumper cables are intended for use as flexible power leads to by-pass portions of aerial power lines. They are also used in equipment where a nonshielded flexible cable is required.

Anixter No.	Conductor Size AWG	No. of Strands	Nominal Conductor Diameter (in.)	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5R-0201	2	259	0.330	0.210	0.775	420	195
5R-0101	1	259	0.375	0.210	0.820	497	225
5R-1011	1/0	259	0.385	0.210	0.880	580	260
5R-2021	2/0	259	0.474	0.210	0.920	685	300
5R-4041	4/0	259	0.540	0.210	0.985	950	400
5R-3501	350	855	0.675	0.210	1.135	1,500	550
5R-5001	500	1235	0.840	0.210	1.290	2,055	685

Diameters and weights may vary among manufacturers.

Note: Jumper cables should not be used in place of shielded medium-voltage cables.
They should be used only in areas where contact with people and electrical grounds is limited.
Access to these cables must be limited to authorized personnel.

Telecom Cable

RHH/ST1 KS24194 L2

Non braided

600 V

105°C dry, 60°C wet

SPECIFICATIONS

1. CONDUCTOR: Class I modified bunched (8 and 6 AWG) or rope-bunched (4 AWG and larger) stranded tin-coated copper conforming to ASTM B-33 and UL requirements, sizes 8 AWG thru 750 kcmil
2. INSULATION: 105°C rated limited smoke, zero halogen TelcoHyde 5221 conforming to UL Standards 44, 758 Subjects 509 and CSA C22.2 No.210.2 M90, in addition, TelcoHyde 5221 complies with the requirements of Telcordia Specification GR-347-CORE, the insulation has a Limiting Oxygen Index of 35%
3. FEATURES: An opaque aluminum/polyester tape shall be applied over the conductor to facilitate stripping, limited smoke, non-halogenated insulated
4. STANDARDS: UL Listed RHH/LS and VW-1 CSA for the FT4/ST1 flame/smoke test, sizes 1/0 AWG and larger are UL "for CT Use" (Cable Tray) rated, lead-free and silicone free, meets European RoHS directive, complies with Telcordia GR-347-CORE
5. TEMPERATURE: 105°C dry, 60°C wet
6. VOLTAGE: 600 V, FT4, ST1

APPLICATIONS

Telecommunications power cable. The cables are designed for use in 600 V AC or DC circuits in telecommunications central offices, wireless sites, repeater stations, data centers and other UPS and power management systems. The cable can be installed in trays, racks, or conduit in horizontal and vertical applications.

Anixter No.	Conductor Size AWG/kcmil	Stranding No. Wires/ Wire Diam. (in.)	Conductor Dia (in.)	Insul. Min. Avg. Wall (mils.)	Nominal Insul. Diam. (in.)	Resistance at 20°C Ohms/1,000 ft.	Ampacity Per NEC Table 310.16 75°C	Ampacity Per NEC Table 310.16 90°C
3BALU-0801-XX	8	41/0.0201	0.156	60	0.295	0.6790	50	55
3BALU-0601-XX	6	65/0.0201	0.186	60	0.325	0.4360	65	75
3BALU-0401-XX	4	105/0.0201	0.263	60	0.405	0.2740	85	95
3BALU-0201-XX	2	168/0.0201	0.325	60	0.465	0.1720	115	130
3BALU-0101-XX	1	224/0.0201	0.390	80	0.570	0.1260	130	150
3BALU-1011-XX	1/0	266/0.0201	0.441	80	0.630	0.1090	150	170
3BALU-2021-XX	2/0	342/0.0201	0.500	80	0.690	0.0868	175	195
3BALU-4041-XX	4/0	532/0.0201	0.559	80	0.750	0.0546	230	260
3BALU-3501-XX	350	855/0.0201	0.705	95	0.925	0.0334	310	350
3BALU-5001-XX	500	1221/0.0201	0.870	95	1.100	0.0234	380	430
3BALU-7501-XX	750	1850/0.0201	1.050	110	1.300	0.0157	475	535

All part numbers require color code description.
See Color Code chart on page 9.29.

Telecom Cable

RHH/ST1 KS24194 L3

Cotton braid

600 V

105°C dry, 60°C wet

SPECIFICATIONS

1. CONDUCTOR: Class B stranded tin-coated copper conforming to ASTM B-8, B-33 and UL requirements, sizes 14 AWG thru 750 kcmil
2. INSULATION: 105°C rated limited smoke, zero halogen TelcoHyde 5221 conforming to UL Standards 44, 758 Subjects 509 and CSA C22.2 No.210.2 M90, in addition, TelcoHyde 5221 complies with the requirements of Telcordia Specification GR-347-CORE, the insulation has a Limiting Oxygen Index of 35%
3. FEATURES: An opaque aluminum/polyester tape shall be applied over the conductor to facilitate stripping, limited smoke, non-halogenated insulated
4. STANDARDS: UL Listed RHH/LS with cotton braid and VW-1 UL Listed "for CT use" (1/0 and larger) CSA for the FT4/ST1 flame/smoke test, lead-free and silicone free, meets European RoHS directive, complies with Telcordia GR-347-CORE
5. TEMPERATURE: 105°C dry, 60°C wet
6. VOLTAGE: 600 V, FT4, ST1

APPLICATIONS

Telecommunications power cable. The cables are designed for use in 600 V AC or DC circuits in telecommunications central offices, wireless sites, repeater stations, data centers and other UPS and power management systems. The cable can be installed in trays, racks, or conduit in horizontal and vertical applications.

Anixter No.	Conductor Size AWG/kcmil	Stranding No. Wires/Wire Diam. (in.)	Conductor Dia (in.)	Insul. Min. Avg. Wall (mils.)	Nominal Insul. Diam. (in.)	Nominal Braid Diam. (in.)	Resistance at 20°C Ohms/1,000 ft.	Ampacity Per NEC Table 310.16 75°C	Ampacity Per NEC Table 310.16 90°C
3BAL-1401-XX	14	7/0.0242	0.072	45	0.165	0.195	2.7300	20	25
3BAL-1201-XX	12	7/0.0305	0.090	45	0.185	0.215	1.7200	25	30
3BAL-1001-XX	10	7/0.0385	0.114	45	0.210	0.245	1.0800	35	40
3BAL-0801-XX	8	7/0.0486	0.144	60	0.270	0.310	0.6780	50	55
3BAL-0601-XX	6	7/0.0612	0.181	60	0.310	0.350	0.4270	65	75
3BAL-0401-XX	4	7/0.0772	0.228	60	0.355	0.395	0.2690	85	95
3BAL-0201-XX	2	7/0.0974	0.287	60	0.420	0.470	0.1690	115	130
3BAL-1011-XX	1/0	19/0.0745	0.367	80	0.545	0.595	0.1060	150	170
3BAL-2021-XX	2/0	19/0.0837	0.412	80	0.590	0.640	0.0840	175	195
3BAL-4041-XX	4/0	19/0.1055	0.520	80	0.695	0.745	0.0520	230	260
3BAL-3501-XX	350	37/0.0973	0.670	95	0.875	0.925	0.0320	310	350
3BAL-5001-XX	500	37/0.1162	0.800	95	1.005	1.055	0.0220	380	430
3BAL-7501-XX	750	61/0.1109	0.983	110	1.220	1.270	0.0148	475	535

All part numbers require color code designation.

See Color Code chart on page 9.29.

Telecom Cable

RHH/ST1 KS24194 L4

Cotton braid

600 V

105°C dry, 60°C wet

SPECIFICATIONS

1. CONDUCTOR: Class I modified bunched (8 and 6 AWG) or rope-bunched (4 AWG and larger) stranded tin-coated copper conforming to ASTM B-33 and UL requirements, sizes 8 AWG thru 750 kcmil
2. INSULATION: 105°C rated limited smoke, zero halogen TelcoHyde 5221 conforming to UL Standards 44, 758 Subjects 509 and CSA C22.2 No.210.2 M90, in addition, TelcoHyde 5221 complies with the requirements of Telcordia Specification GR-347-CORE, the insulation has a Limiting Oxygen Index of 35%
3. FEATURES: An opaque aluminum/polyester tape shall be applied over the conductor to facilitate stripping, limited smoke, non-halogenated insulated
4. STANDARDS: UL Listed RHH/LS with cotton braid and VW-1 UL Listed "for CT use" (1/0 and larger) CSA for the FT4/ST1 flame/smoke test, lead-free and silicone free, meets European RoHS directive, complies with Telcordia GR-347-CORE
5. TEMPERATURE: 105°C dry, 60°C wet
6. VOLTAGE: 600 V, FT4, ST1

APPLICATIONS

Telecommunications power cable. The cables are designed for use in 600 V AC or DC circuits in telecommunications central offices, wireless sites, repeater stations, data centers and other UPS and power management systems. The cable can be installed in trays, racks, or conduit in horizontal and vertical applications.

Anixter No.	Conductor Size AWG/kcmil	Stranding No. Wires/Wire Diam. (in.)	Conductor Dia (in.)	Insul. Min. Avg. Wall (mils.)	Nominal Insul. Diam. (in.)	Nominal Braid Diam. (in.)	Resistance at 20°C Ohms/ 1,000 ft.	Ampacity Per NEC Table 310.16 75°C	Ampacity Per NEC Table 310.16 90°C
3BALI-0801-XX	8	41/0.0201	0.156	60	0.295	0.335	0.6790	50	55
3BALI-0601-XX	6	65/0.0201	0.186	60	0.325	0.365	0.4360	65	75
3BALI-0401-XX	4	105/0.0201	0.263	60	0.405	0.445	0.2740	85	95
3BALI-0201-XX	2	168/0.0201	0.325	60	0.465	0.520	0.1720	115	130
3BALI-1011-XX	1/0	266/0.0201	0.441	60	0.630	0.685	0.1090	150	170
3BALI-2021-XX	2/0	342/0.0201	0.500	60	0.690	0.740	0.0868	175	195
3BALI-4041-XX	4/0	532/0.0201	0.559	60	0.775	0.810	0.0546	230	260
3BALI-3501-XX	350	855/0.0201	0.705	95	0.940	0.990	0.0334	310	350
3BALI-5001-XX	500	1221/0.0201	0.870	95	1.100	1.150	0.0234	380	430
3BALI-7501-XX	750	1850/0.0201	1.050	110	1.300	1.370	0.0157	475	535

All part numbers require color code designation.
See Color Code chart below.

Telecom Cable Color Code

Code	Color
02	Black
03	Red
04	Green
06	Blue
09	Gray (slate)
03TR	Red with black tracer
06TR	Blue with black tracer
09TR	Gray with black tracer

CASE STUDY | Contractor Gets Power Plant Running with Anixter's READY! To Install

READY! BY ANIXTER DEPLOYMENT SERVICES

READY!℠ Deployment Services by Anixter map our distribution and Supply Chain Solutions to the construction or deployment process of any technology project. We combine sourcing, inventory management, kitting, labeling, packaging and deployment services to simplify and address the material management challenges at the job site(s).

This project called for:

READY! BY ANIXTER KIT

READY!℠ To Install is a customized, full-service wire and cable management and delivery program.

Customer

Leading global provider of engineering and construction services

Challenge

Construction of a coal-fired, 660-megawatt power plant at a remote site

Solution

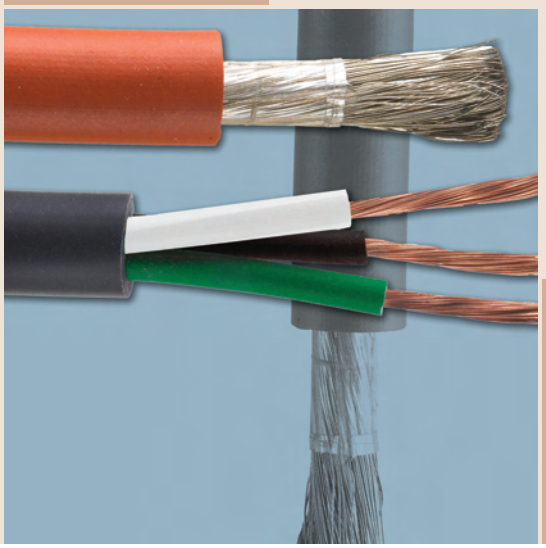
READY!℠ To Install

Results

- Helped to hold costs steady, regardless of commodity fluctuations
- Minimized risk of stolen material at the site by holding products in local distribution center
- Reduced cost of ownership
- Enabled customer to adjust material requirements and construction schedule

Anixter's product knowledge, dedicated inventory and just-in-time delivery capabilities provided the contractor with the flexibility to meet changes in construction planning and scheduling.

10



Portable Cord

CAROL BRAND

CCI Coleman Cable Inc.

General Cable

KALAS

CCI®

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With CCI you can choose either thermoplastic elastomer or thermoset constructions to handle a full range of commercial, OEM, utility, and industrial applications. Our Seoprene® SEOOW cords are technologically advanced to meet the requirements of the most demanding commercial and industrial applications. The Royal® SOOW cords are manufactured with synthetic rubber compounds that provide exceptional service life.

Whatever your application, you'll find a Coleman Cable portable cord that meets your needs. The list of applications is virtually endless…from the factory floor to mining and heavy-duty construction…from wind farms to the harsh demands of the process industries and drilling rigs…you'll find CCI's industrial products on the job, performing well, day-in and day-out.

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- **PORTABLE CORD**
- **CONTROL CABLE**
- **WELDING CABLE**
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- **DLO**
- **W/G/G-GC**
- **PPE**
- **STAGE & LIGHTING**

Coleman Cable Inc.
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SOOW 90°C

SOOW 90°C

Synthetic rubber insulation
Thermoset jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Bare, annealed copper per ASTM B-3, flexible, bunch stranded per UL 62, a separator may be applied over the conductor
2. INSULATION: Synthetic rubber per UL 62
3. COLOR CODE: Per ICEA Method 1, Table E-1 (up to 21/C) except 3/C which is black, white, green
4. ASSEMBLY: Insulated conductors are cabled with fillers as necessary to make round, a separator is applied over the assembly
5. OVERALL JACKET: Black, oil-resistant thermoset compound per UL 62
6. STANDARDS: Meets the UL 62 requirements for Type SOOW, also meets CSA requirements for Type SOOW, accepted by MSHA and printed with the manufacturer's P number
7. AMPACITY: Based on a 30°C ambient temperature per 2008 NEC Table 400.5(A), the values are derated (where applicable) according to 2008 NEC Article 400.5
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

For use as portable electrical power and portable control cable. It can be used for ground test or motor leads. Also, it provides heavy-duty service for industrial tools, portable lights, battery chargers and equipment exposed to oils, solvents, flame and grease.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
4A-1802	18	16	2	0.345	86	10
4A-1803	18	16	3	0.365	95	7
4A-1804	18	16	4	0.390	112	5.6
4A-1805	18	16	5	0.465	128	5.6
4A-1806	18	16	6	0.495	146	5.6
4A-1807	18	16	7	0.520	165	4.9
4A-1808	18	16	8	0.530	184	4.9
4A-1810	18	16	10	0.595	208	3.5
4A-1812	18	16	12	0.600	225	3.5
4A-1814	18	16	14	0.630	275	3.5
4A-1816	18	16	16	0.700	314	3.5
4A-1820	18	16	20	0.795	378	3.5
4A-1824	18	16	24	0.850	434	3.2
4A-1830	18	16	30	0.915	542	3.2
4A-1840	18	16	40	1.080	703	2.8
4A-1860	18	16	60	1.301	953	2.5
4A-1602	16	26	2	0.370	94	13
4A-1603	16	26	3	0.390	110	10
4A-1604	16	26	4	0.420	144	8
4A-1605	16	26	5	0.495	156	8
4A-1606	16	26	6	0.520	178	8
4A-1607	16	26	7	0.540	202	7
4A-1608	16	26	8	0.575	222	7
4A-1609	16	26	9	0.600	268	7
4A-1610	16	26	10	0.620	278	5
4A-1612	16	26	12	0.660	305	5
4A-1614	16	26	14	0.730	348	5
4A-1616	16	26	16	0.740	386	5
4A-1620	16	26	20	0.810	466	5
4A-1624	16	26	24	0.925	564	4.5
4A-1630	16	26	30	1.010	677	4.5

SOOW 90°C

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
4A-1640	16	26	40	1.130	881	4
4A-1660	16	26	60	1.365	1,260	3.5
4A-1402	14	41	2	0.510	158	18
4A-1403	14	41	3	0.535	184	15
4A-1404	14	41	4	0.575	224	12
4A-1405	14	41	5	0.645	260	12
4A-1406	14	41	6	0.710	302	12
4A-1407	14	41	7	0.710	329	10.5
4A-1408	14	41	8	0.760	373	10.5
4A-1409	14	41	9	0.830	414	10.5
4A-1410	14	41	10	0.820	434	7.5
4A-1412	14	41	12	0.855	481	7.5
4A-1414	14	41	14	1.000	556	7.5
4A-1416	14	41	16	1.030	657	7.5
4A-1420	14	41	20	1.120	785	7.5
4A-1424	14	41	24	1.130	920	6.7
4A-1430	14	41	30	1.335	1,138	6.7
4A-1437	14	41	37	1.445	1,400	6
4A-1440	14	41	40	1.500	1,429	6
4A-1460	14	41	60	1.925	2,156	5.25
4A-1202	12	65	2	0.570	204	25
4A-1203	12	65	3	0.595	244	20
4A-1204	12	65	4	0.650	282	16
4A-1205	12	65	5	0.715	322	16
4A-1206	12	65	6	0.740	380	16
4A-1207	12	65	7	0.790	435	14
4A-1208	12	65	8	0.825	475	14
4A-1209	12	65	9	0.900	550	14
4A-1210	12	65	10	1.000	581	10
4A-1212	12	65	12	1.010	645	10
4A-1214	12	65	14	1.020	743	10
4A-1216	12	65	16	1.135	840	10
4A-1220	12	65	20	1.170	1,005	10
4A-1224	12	65	24	1.435	1,225	9
4A-1230	12	65	30	1.455	1,450	9
4A-1240	12	65	40	1.645	1,990	8
4A-1260	12	65	60	2.090	2,780	7
4A-1002	10	105	2	0.620	250	30
4A-1003	10	105	3	0.660	310	25
4A-1004	10	105	4	0.715	371	20
4A-1005	10	105	5	0.770	425	20
4A-1006	10	105	6	0.875	485	20
4A-1007	10	105	7	0.900	593	17.5
4A-1008	10	105	8	0.935	650	17.5
4A-1010	10	105	10	1.020	760	12.5
4A-1012	10	105	12	1.070	850	12.5

Other conductor counts available upon request.
Diameters and weights may vary among manufacturers.
For yellow jacket add -05 as a suffix to the Part No. (e.g., 4A-1603-05).

SOOW 90°C - Non-UL

SOOW 90°C - Non-UL

Synthetic rubber insulation
Thermoset jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Bare, annealed copper per ASTM B-3, flexible, bunch stranded per UL 62, a separator may be applied over the conductor
2. INSULATION: Synthetic rubber per UL 62
3. COLOR CODE: Per ICEA Method 1, Table E-1 (up to 21/C) except 3/C which is black, white, green
4. ASSEMBLY: Insulated conductors are cabled with fillers as necessary to make round, a separator is applied over the assembly
5. OVERALL JACKET: Black, oil-resistant thermoset compound per UL 62
6. STANDARDS: Accepted by MSHA and printed with the manufacturer's P number. This product is not UL Listed or CSA Certified
7. AMPACITY: Based on a 30°C ambient temperature per 2008 NEC Table 400.5(A), the values are derated (where applicable) according to 2008 NEC Article 400.5
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

For use as portable electrical power and portable control cable. Can be used for ground test or motor leads. Also can provide heavy-duty service for industrial tools, portable lights, battery chargers and equipment exposed to oils, solvents, flame and grease.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
4A-1201	12	65	1	0.27	57	25
4A-1001	10	105	1	0.29	72	30
4A-0806	8	65	6	0.93	765	28
4A-0805	8	65	5	0.90	630	28
4A-0804	8	65	4	0.81	506	28
4A-0803	8	65	3	0.78	440	35
4A-0802	8	65	2	0.72	345	40
4A-0606	6	133	6	1.15	1,010	36
4A-0605	6	133	5	1.05	807	36
4A-0604	6	133	4	0.89	664	36
4A-0603	6	133	3	0.88	562	45
4A-0602	6	133	2	0.80	408	55
4A-0406	4	133	6	1.40	1,550	48
4A-0405	4	133	5	1.35	1,450	48
4A-0404	4	133	4	1.22	1,405	48
4A-0403	4	133	3	0.99	1,020	60
4A-0402	4	133	2	0.95	825	70
4A-0205	2	133	5	1.42	1,725	64
4A-0204	2	133	4	1.27	1,475	64
4A-0203	2	133	3	1.15	1,190	80

Other conductor counts available upon request.
Diameters and weights may vary among manufacturers.

Shielded SOOW 90°C

Shielded SOOW 90°C

Synthetic rubber insulation
Thermoset jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Tin-coated, annealed copper per ASTM B-33
2. INSULATION: EPR conforming to UL Standard 62
3. COLOR CODE: Per ICEA Method 1, Table E-1 except 3/C which is black, white, green
4. ASSEMBLY: Insulated conductors are cabled with a suitable lay and fillers as necessary, a separator is applied overall
5. SHIELD: Tin-coated, annealed copper braid with 85% coverage, a separator is applied overall
6. OVERALL JACKET: Black, oil-resistant thermoset compound conforming to UL Standard 62
7. STANDARDS: UL and CSA Listed
8. AMPACITY: Based on a 30°C ambient temperature per 2008 NEC Table 400.5(A), Column A, the values are derated (where applicable) according to 2008 NEC 400.5
9. TEMPERATURE: 90°C
10. VOLTAGE: 600 V

APPLICATIONS

For use as portable power and control cable. It can be used for test or motor leads. Also, it provides heavy-duty service for industrial tools, portable lights, battery chargers and equipment exposed to oils, solvents and grease.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
4DS-1802	18	16	2	0.030	0.060	0.380	91	7
4DS-1803	18	16	3	0.030	0.060	0.395	102	7
4DS-1804	18	16	4	0.030	0.060	0.420	122	5.6
4DS-1805	18	16	5	0.030	0.080	0.490	149	5.6
4DS-1806	18	16	6	0.030	0.080	0.520	168	5.6
4DS-1807	18	16	7	0.030	0.080	0.520	188	4.9
4DS-1808	18	16	8	0.030	0.080	0.560	210	4.9
4DS-1810	18	16	10	0.030	0.080	0.610	243	3.5
4DS-1812	18	16	12	0.030	0.080	0.630	273	3.5
4DS-1602	16	26	2	0.030	0.060	0.405	102	10
4DS-1603	16	26	3	0.030	0.060	0.420	122	10
4DS-1604	16	26	4	0.030	0.060	0.450	165	8
4DS-1605	16	26	5	0.030	0.080	0.525	179	8
4DS-1606	16	26	6	0.030	0.080	0.560	203	8
4DS-1608	16	26	8	0.030	0.080	0.600	250	7
4DS-1610	16	26	10	0.030	0.080	0.660	314	5
4DS-1612	16	26	12	0.030	0.095	0.720	349	5
4DS-1616	16	26	16	0.030	0.095	0.800	450	5
4DS-1630	16	26	30	0.030	0.095	0.945	658	4.5
4DS-1406	14	41	6	0.045	0.080	0.650	287	12
4DS-1405	14	41	5	0.045	0.080	0.605	285	12
4DS-1404	14	41	4	0.045	0.080	0.590	257	12
4DS-1403	14	41	3	0.045	0.080	0.550	201	15
4DS-1402	14	41	2	0.045	0.080	0.520	168	15
4DS-1206	12	65	6	0.045	0.095	0.790	417	16
4DS-1204	12	65	4	0.045	0.095	0.680	307	16
4DS-1203	12	65	3	0.045	0.095	0.630	264	20
4DS-1202	12	65	2	0.045	0.095	0.600	216	20
4DS-1003	10	104	3	0.045	0.095	0.660	295	25

Diameters and weights may vary among manufacturers.

SOOW 105°C

SOOW 105°C

Thermoset rubber insulation
Thermoset polymer jacket
Extra flexible, heavy duty
105°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Bare, annealed copper per ASTM B-3, stranded per ASTM B-174
2. INSULATION: Premium grade 105°C thermoset rubber
3. COLOR CODE: Per ICEA Method 1, Table E-1 except 3/C which is black, white, green
4. ASSEMBLY: Insulated conductors are cabled with fillers as necessary to make round, a separator is applied over the assembly
5. OVERALL JACKET: Yellow premium thermoset polymer compound
6. STANDARDS: Meets UL and CSA requirements for 105°C Type SOOW
7. AMPACITY: Based on a 30°C ambient temperature per 2008 NEC Table 400.5(A), the values are derated (where applicable) according to 2008 NEC 400.5
8. TEMPERATURE: -50°C to 105°C
9. VOLTAGE: 600 V

APPLICATIONS

To provide portable electrical power for heavy-duty service such as tools, portable lights, battery chargers, and equipment exposed to oils, solvents, grease, moisture and weather. Excellent for low and high temperature service.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
4AX-1802-05	18	41	2	0.030	0.365	71	7
4AX-1803-05	18	41	3	0.030	0.380	82	10
4AX-1804-05	18	41	4	0.030	0.410	94	5.6
4AX-1602-05	16	65	2	0.030	0.390	82	13
4AX-1603-05	16	65	3	0.030	0.410	97	10
4AX-1604-05	16	65	4	0.030	0.450	111	8
4AX-1402-05	14	41	2	0.045	0.530	141	18
4AX-1403-05	14	41	3	0.045	0.560	165	15
4AX-1404-05	14	41	4	0.045	0.600	186	12
4AX-1202-05	12	65	2	0.045	0.600	178	25
4AX-1203-05	12	65	3	0.045	0.635	222	20
4AX-1204-05	12	65	4	0.045	0.670	275	16
4AX-1003-05	10	104	3	0.045	0.690	289	25
4AX-1004-05	10	104	4	0.045	0.750	339	20

Special water-resistant cable available, UL and CSA; 600 V, 90°C, black (e.g. 4AW-1404A).
Diameters and weights may vary among manufacturers.

SJOOW

SJOOW

Synthetic rubber insulation
Thermoset jacket
90°C, 300 V

SPECIFICATIONS

1. CONDUCTOR: Bare, annealed copper per ASTM B-3, flexible, bunch stranded per UL 62, a separator can be applied over the conductor
2. INSULATION: Synthetic rubber per UL 62
3. COLOR CODE: Per ICEA Method 1, Table E-1 except 3/C which is black, white, green
4. ASSEMBLY: Insulated conductors are cabled with fillers as necessary to make round, a separator is applied over the assembly
5. OVERALL JACKET: Black, oil-resistant thermoset compound per UL 62
6. STANDARDS: Meets UL and CSA requirements for Type SJOOW
7. AMPACITY: Based on a 30°C ambient temperature per 2008 NEC Table 400.5(A), Column A, the values are derated (where applicable) according to 2008 NEC Article 400.5
8. TEMPERATURE: 90°C
9. VOLTAGE: 300 V

APPLICATIONS

For use with portable appliances, small motors and tools. Also, for light-load general use in equipment exposed to oils, solvents, flame, grease.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
4B-1802	18	16	2	0.030	0.030	0.280	41	7
4B-1803	18	16	3	0.030	0.030	0.300	54	7
4B-1804	18	16	4	0.030	0.030	0.325	67	5.6
4B-1602	16	26	2	0.030	0.030	0.305	51	10
4B-1603	16	26	3	0.030	0.030	0.325	69	10
4B-1604	16	26	4	0.030	0.030	0.350	84	8
4B-1402	14	41	2	0.030	0.030	0.335	66	15
4B-1403	14	41	3	0.030	0.030	0.360	88	15
4B-1404	14	41	4	0.030	0.030	0.390	111	12
4B-1202	12	65	2	0.030	0.030	0.405	100	20
4B-1203	12	65	3	0.030	0.030	0.425	129	20
4B-1204	12	65	4	0.030	0.030	0.465	164	16
4B-1002	10	104	2	0.045	0.045	0.540	169	25
4B-1003	10	104	3	0.045	0.045	0.565	218	25
4B-1004	10	104	4	0.045	0.045	0.625	281	20

Diameters and weights may vary among manufacturers.
Other colors available: Yellow add -05 suffix to Part No. (e.g., 4B-1403-05).
Orange add -08 suffix to Part No. (e.g., 4B-1404-08).
For constantly flexing application, add "F" to Part No. (e.g., 4B-1804F).

CAROL BRAND CORDPRODUCTS

Carol® Brand Portable Cord with TRU-Mark®

General Cable is pleased to offer the **TRU-Mark® Sequential Footage Marking System** on its Carol® Brand line of portable power cords.

The TRU-Mark System, which was selected in March 2010 as the **Wire & Cable Category** winner in the **2010 *EC&M* Product of the Year** competition, sequentially marks every two feet of Carol Brand cord products in descending order from the start of the reel to the core.

EC&M Product of the year 10 Competition

Our product is TRU-Marked to match reel lengths (250', 500', 1000') with large visible fonts for accuracy with 1% tolerance.

Benefits of TRU-Mark:

- No more math to figure out how much is left on the reel!
- Excellent for partial reel inventory management
- No more coming up short on partial reels
- Great for hand-cutting customers or short-length measures
- Cut with confidence without a counting machine

Carol Brand portable power cables are UL Listed, CSA Certified, MSHA Compliant, RoHS Compliant and approved for indoor and outdoor use.

When you have a need for portable cord, whether it's plastic, rubber or specialty constructions, think of Carol Brand cord first. Remember, you can always ***Demand Better and Expect More™*** with General Cable Carol Brand cord products. We manufacture a complete line of portable cord products.

TRU-Mark® available on all circuit sizes of SOOW and SJOOW, including Super Vu-Tron® Supreme and Super Vu-Tron® III 18 to 10 AWG, 2-, 3-, or 4-conductor cables

Rubber Cord
Plastic Cord
Industrial Cord
Specialty Cord

General Cable

For more information, contact your local General Cable representative.

4 Tesseneer Drive, Highland Heights, KY 41076

Phone: 1.800.243.8020
Fax: 1.859.572.9262
www.generalcable.com

Carol Cord ★ Made in USA

SJ

Synthetic rubber insulation
Thermoset jacket
60°C, 300 V

SPECIFICATIONS

1. CONDUCTOR: Bare, annealed copper per ASTM B-3. Flexible, bunch stranded per UL 62, a separator can be applied over the conductor
2. INSULATION: Synthetic rubber per UL 62
3. COLOR CODE: Per ICEA Method 1, Table E-1 except 3/C which is black, white, green
4. ASSEMBLY: Insulated conductors are cabled with fillers as necessary to make round, a separator is applied over the assembly
5. OVERALL JACKET: Black, thermosetting rubber
6. STANDARDS: Meets UL and CSA requirements for Type SJ
7. AMPACITY: Based on a 30°C ambient temperature per 2008 NEC Table 400.5(A), Column A, the values are derated (where applicable) according to 2008 NEC Article 400.5
8. TEMPERATURE: 60°C
9. VOLTAGE: 300 V

APPLICATIONS

For use as power cords on portable tools, major appliances and similar medium-duty applications.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
4D-1802	18	16	2	0.030	0.030	0.290	49	7
4D-1803	18	16	3	0.030	0.030	0.300	64	7
4D-1804	18	16	4	0.030	0.030	0.340	74	5.6
4D-1602	16	26	2	0.030	0.030	0.310	60	10
4D-1603	16	26	3	0.030	0.030	0.330	77	10
4D-1604	16	26	4	0.030	0.030	0.370	95	8
4D-1402	14	41	2	0.030	0.030	0.340	73	15
4D-1403	14	41	3	0.030	0.030	0.370	97	15
4D-1404	14	41	4	0.030	0.030	0.410	120	12
4D-1202	12	65	2	0.030	0.045	0.420	108	20
4D-1203	12	65	3	0.030	0.045	0.440	136	20
4D-1204	12	65	4	0.030	0.045	0.480	180	16
4D-1002	10	105	2	0.045	0.045	0.570	200	25
4D-1003	10	105	3	0.045	0.045	0.600	244	25
4D-1004	10	105	4	0.045	0.045	0.660	306	20

Diameters and weights may vary among manufacturers.

SJT, SVO, SVT, HPN

SJT, SVO, SVT, HPN

SPECIFICATIONS

1. CONDUCTOR: Annealed, stranded bare copper per ASTM B-174 or B-3 as applicable
2. INSULATION: Types SJT and SVT: PVC, SVO: EPDM, HPN: neoprene
3. COLOR CODE: 1-black; 2-white; 3-green, HPN: black
4. ASSEMBLY: The applicable number of insulated conductors are cabled together with fillers, as necessary, to form a round cable, HPN is flat parallel
5. OVERALL JACKET: Types SJT and SVT: black PVC, SVO and HPN: black neoprene
6. STANDARDS: UL Listed
7. AMPACITY: Based on a 30°C ambient temperature per 2008 NEC Table 400.5(A), (Column B for SJT, SVO and SVT)
8. TEMPERATURE: Types SJT and SVT: 60°C, SVO and HPN: 90°C
9. VOLTAGE: 300 V

APPLICATIONS

To provide portable electrical power for light-duty service such as portable tools, lights, vacuum cleaners, toasters and soldering irons.

TYPE SJT

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
4DT-1802	18	16	2	0.030	0.29	48	10
4DT-1803	18	16	3	0.030	0.32	68	10
4DT-1602	16	26	2	0.030	0.32	64	13
4DT-1603	16	26	3	0.030	0.34	83	13
4DT-1403	14	41	3	0.030	0.37	86	18

TYPE SVO

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
4CV-1802	18	41	2	0.016	0.245	41	10
4CV-1803	18	41	3	0.016	0.255	50	10

TYPE SVT

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
4CT-1802	18	41	2	0.030	0.235	37	10

TYPE HPN

Diameters and weights may vary among manufacturers.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
4J-1602	16	265	2	0.016	0.16 x 0.31	44	15

SJTO AND STO

SJTO and STO

Thermoplastic insulation
Thermoplastic jacket
60°C, 300 or 600 V

SPECIFICATIONS

1. CONDUCTOR: Annealed, bare copper per ASTM B-3, flexible, bunch stranded per UL 62
2. INSULATION: Polyvinyl Chloride (PVC) per UL 62
3. COLOR CODE: Per ICEA Method 1, Table E-1 except 3/C which is black, white, green
4. ASSEMBLY: Insulated conductors are cabled with fillers as necessary to make round, a separator is applied over the assembly
5. OVERALL JACKET: Polyvinyl Chloride (PVC) per UL 62
6. STANDARDS: Meets UL and CSA requirements for Type SJTO or STO
7. AMPACITY: Based on a 30°C ambient temperature per 2008 NEC Table 400.5(A), Column A
8. TEMPERATURE: 60°C
9. VOLTAGE: SJTO, 300 V; STO, 600 V

APPLICATIONS

For use as power cords on machine tools, portable power equipment and appliances.

TYPE SJTO - 300 V

Diameters and weights may vary among manufacturers. For flexible strand add "F" suffix to Part No., (e.g., 4AT-1602F). For yellow add -05 suffix to Part No., (e.g., 4BT-1203-05). For gray add -09 suffix to Part No., (e.g., 4AT-1404-09).

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
4BT-1802	18	16	2	0.030	0.29	42	10
4BT-1803	18	16	3	0.030	0.31	53	7
4BT-1804	18	16	4	0.030	0.34	73	5.6
4BT-1602	16	26	2	0.030	0.31	54	13
4BT-1603	16	26	3	0.030	0.33	73	10
4BT-1604	16	26	4	0.030	0.36	84	8
4BT-1402	14	41	2	0.030	0.35	71	18
4BT-1403	14	41	3	0.030	0.37	88	15
4BT-1404	14	41	4	0.030	0.41	112	12
4BT-1202	12	65	2	0.030	0.42	135	25

TYPE STO - 600 V

Diameters and weights may vary between manufacturers. For flexible strand add "F" suffix to Part No., (e.g., 4AT-1602F). For yellow add -05 suffix to Part No., (e.g., 4BT-1203-05). For gray add -09 suffix to Part No., (e.g., 4AT-1404-09).

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
4AT-1802	18	16	2	0.030	0.35	73	10
4AT-1803	18	16	3	0.030	0.37	77	7
4AT-1804	18	16	4	0.030	0.40	103	5.6
4AT-1602	16	26	2	0.030	0.38	75	13
4AT-1603	16	26	3	0.030	0.40	91	10
4AT-1604	16	26	4	0.030	0.43	109	8
4AT-1605	16	26	5	0.030	0.50	138	8
4AT-1606	16	26	6	0.030	0.54	105	8
4AT-1609	16	26	9	0.030	0.60	203	7
4AT-1612	16	26	12	0.030	0.71	266	5
4AT-1616	16	26	16	0.030	0.77	319	5
4AT-1620	16	26	20	0.030	0.84	372	5
4AT-1402	14	41	2	0.045	0.52	130	18
4AT-1403	14	41	3	0.045	0.54	160	15

Continued on next page >>

SJTO AND STO

(continued) SJTO and STO

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
4AT-1404	14	41	4	0.045	0.58	194	12
4AT-1202	12	65	2	0.045	0.59	175	25
4AT-1203	12	65	3	0.045	0.61	216	20
4AT-1204	12	65	4	0.045	0.66	263	16
4AT-1002	10	105	2	0.045	0.64	232	30
4AT-1003	10	105	3	0.045	0.67	278	25
4AT-1004	10	105	4	0.045	0.73	340	20
4AT-0603	6	133	3	0.060	0.99	600	45
4AT-0604	6	133	4	0.060	1.10	800	36

SEOOW/STOOW

SEOOW/STOOW

TPE insulation
TPE jacket
-40°C to 105°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Bare, annealed Class K stranded copper
2. INSULATION: Oil-resistant thermoplastic elastomer (TPE)
3. COLOR CODE: Per ICEA Method 1, Table E-1 except 3/C which is black, white, green
4. ASSEMBLY: Insulated conductors are cabled together with fillers for maximum flexibility and roundness
5. OVERALL JACKET: Chemical-, oil- and gas-resistant black TPE jacket
6. STANDARDS: Sizes 18 through 10 AWG meet UL and CSA requirements, all sizes meet Federal Specification J-C-580B and are MSHA approved, FT2 flame resistant
7. AMPACITY: Based on a 90°C conductor and a 30°C ambient temperature per NEC Table 400.5(A), the values are derated (where applicable) according to 2008 NEC 400.5
8. TEMPERATURE: -40°C to 105°C
9. VOLTAGE: 600 V

APPLICATIONS

To provide control and power where exceptional flexibility and abrasion resistance over a wide temperature range is required. For indoor and outdoor use on push button remote controls, industrial robotic systems and other portable tools and equipment.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
4BD-1802	18	16	2	0.060	0.345	53	10
4BD-1803	18	16	3	0.060	0.365	62	10
4BD-1804	18	16	4	0.060	0.390	78	7
4BD-1602	16	26	2	0.060	0.370	65	13
4BD-1603	16	26	3	0.060	0.390	78	13
4BD-1604	16	26	4	0.060	0.415	93	10
4BD-1402	14	41	2	0.080	0.500	115	18
4BD-1403	14	41	3	0.080	0.525	138	18
4BD-1404	14	41	4	0.080	0.570	181	15
4BD-1202	12	65	2	0.100	0.570	173	20
4BD-1203	12	65	3	0.100	0.595	184	25
4BD-1204	12	65	4	0.100	0.645	227	20
4BD-1002	10	104	2	0.100	0.620	192	30
4BD-1003	10	104	3	0.100	0.655	244	30
4BD-1004	10	104	4	0.100	0.705	300	25
4BD-0803	8	133	3	0.090	0.859	301	40
4BD-0805	8	133	5	0.100	1.050	660	28

8 AWG and larger are not UL Listed or CSA Certified.
Also available in 300 V SJEOOW.
Diameters and weights may vary among manufacturers.

Welding Cable

Welding Cable

Thermoset insulation
Thermoset jacket
90°C

Welding Machine Rating	Lengths Up to 45 ft.	Lengths Up to 100 ft.	Lengths Up to 250 ft.
	AWG	AWG	AWG
75 Amperes	4	4	4
100 Amperes	2	2	2
200 Amperes	1	1	2/0
300 Amperes	1/0	2/0	4/0
400 Amperes	2/0	3/0	----
600 Amperes	3/0	4/0	----

Note: Lengths are from power supply to electrode holder (one way). Ampacity values are not NEC values.

SPECIFICATIONS

1. CONDUCTOR: Class K (30 AWG*) rope-stranded copper per ASTM B-172, a separator is applied over the conductor
2. OVERALL JACKET: Thermoset meeting the requirements of ICEA S-75-381 (NEMA WC58)
3. TEMPERATURE: 105°C

APPLICATIONS

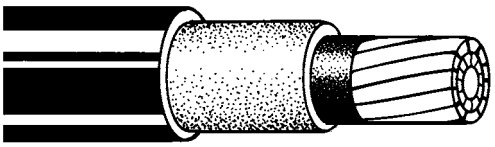
For use as flexible lead from welding machine to electrode holder. These cables are designed for use only with the secondary voltages typical of welding equipment. Can not be used as motor lead.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
5J-0601	6	259	0.070	0.380	135
5J-0401	4	413	0.070	0.420	215
5J-0301	3	532	0.070	0.470	230
5J-0201	2	651	0.070	0.495	280
5J-0101	1	840	0.070	0.520	360
5J-1011	1/0	1,050	0.090	0.615	425
5J-2021	2/0	1,323	0.090	0.650	510
5J-3031	3/0	1,666	0.110	0.720	615
5J-4041	4/0	2,107	0.110	0.835	760
5J-2501	250	2,450	0.125	0.925	855
5J-3501	350	3,458	0.125	1.050	1,290
5J-5001	500	5,054	0.125	1.210	1,800

*34 AWG stranding also available.
UL available on request.
Diameters and weights may vary among manufacturers.
Additional colors available from stock (e.g. red).
Stranding varies by manufacturer.

Jumper Cable 5-15 kV, Nonshielded

Jumper Cable 5-15 kV, Nonshielded



EPR insulation/jacket

SPECIFICATIONS

1. CONDUCTOR: Extra flexible, rope-stranded copper with a semi-conducting tape applied over the conductor
2. INSULATION: Red Ethylene Propylene Rubber (EPR) per ICEA S-96-659 (NEMA WC71)
3. AMPACITY: Based on insulated single conductor isolated in air with a conductor temperature of 90°C and an ambient temperature of 40°C per 2008 NEC Table 310.69
4. TEMPERATURE: 90°C
5. VOLTAGE: 5-15 kV

APPLICATIONS

Temporary jumper cables are intended for use as flexible power leads to by-pass portions of aerial power lines. They are also used in equipment where a nonshielded flexible cable is required.

Anixter No.	Conductor Size AWG	No. of Strands	Nominal Conductor Diameter (in.)	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5R-0201	2	259	0.330	0.210	0.775	420	195
5R-0101	1	259	0.375	0.210	0.820	497	225
5R-1011	1/0	259	0.385	0.210	0.880	580	260
5R-2021	2/0	259	0.474	0.210	0.920	685	300
5R-4041	4/0	259	0.540	0.210	0.985	950	400
5R-3501	350	855	0.675	0.210	1.135	1,500	550
5R-5001	500	1,235	0.840	0.210	1.290	2,055	685

Diameters and weights may vary among manufacturers.

Note: Jumper cables should not be used in place of shielded medium-voltage cables.
They should be used only in areas where contact with people and electrical grounds is limited.
Access to these cables must be limited to authorized personnel.

Crane and Festoon Cable

Cordaflex (SM)

EPR insulation
Braid-reinforced
Yellow neoprene jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Extra finely stranded tin-coated copper
2. INSULATION: Ethylene Propylene Rubber (EPR)
3. FEATURE: Heavy-duty Kevlar messengers in shaped EPDM filler pads
4. INNER JACKET: Neoprene with high-tenacity textile braid in vulcanized bond
5. OVERALL JACKET: Yellow neoprene
6. STANDARDS: Accepted by MSHA, UL and VDE
7. TEMPERATURE: 90°C
8. VOLTAGE: 600 V

APPLICATIONS

Cordaflex (SM) magnet crane cables provide a superior mechanical resistance to corkscrewing. Conventional two-conductor arrangement for ease of splicing and termination. For use in magnet crane reels, all DC two conductor tenders, festoons, reels, power tracks and DC grapple reels.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Max. Reeling Tension (lb.)
4EC-0802-05	8	280	2	0.835	420	75
4EC-0602-05	6	280	2	0.955	565	120
4EC-0402-05	4	451	2	1.095	800	190
4EC-0202-05	2	717	2	1.270	1,130	300

Crane and Festoon Cable

Cordaflex (SM)

EPR insulation
Braid-reinforced
Dual yellow neoprene jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Extra flexible tinned copper
2. INSULATION: Ozone-resistant Ethylene Propylene Rubber (EPR)
3. COLOR CODE: ICEA S-73-532 (NEMA WC57) Method 4
4. FEATURE: High-tenacity Kevlar central strength member with a layer of EPDM insulation
5. OVERALL JACKET: Double neoprene, yellow jacket with a reinforcing textile braid in between the jacket layers
6. STANDARDS: Accepted by MSHA, UL and VDE
7. TEMPERATURE: -45°C to 90°C
8. VOLTAGE: 600 V

APPLICATIONS

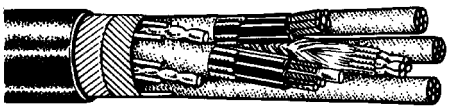
Suited for high-speed, high-tension applications where high-duty cycles are encountered. This design is ideally suited for vertical reeling applications, tender systems and sheave guide applications. Cordaflex's (SM) construction is very resistant to the high torsion and transverse forces encountered in force-guided operations.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Max. Reeling Tension (lb.)
4EC-1603-05	16	45	3	0.510	144	19
4EC-1612-05	16	45	12	0.945	530	70
4EC-1616-05	16	45	16	1.000	550	90
4EC-1620-05	16	45	20	1.025	580	120
4EC-1624-05	16	45	24	1.100	755	140
4EC-1644-05	16	45	44	1.455	1,295	260
4EC-1403-05	14	71	3	0.551	181	30
4EC-1407-05	14	71	7	0.825	410	65
4EC-1412-05	14	71	12	1.140	785	110
4EC-1416-05	14	71	16	1.045	690	150
4EC-1420-05	14	71	20	1.200	930	190
4EC-1424-05	14	71	24	1.280	1,015	220
4EC-1430-05	14	71	30	1.520	1,460	280
4EC-1436-05	14	71	36	1.495	1,500	340
4EC-1203-05	12	72	3	0.610	236	45
4EC-1204-05	12	72	4	0.730	315	60
4EC-1207-05	12	72	7	0.945	585	110
4EC-1212-05	12	72	12	1.30	935	180
4EC-1216-05	12	72	16	1.160	1,055	240
4EC-1220-05	12	72	20	1.300	1,060	300
4EC-1224-05	12	72	24	1.520	1,530	360
4EC-1230-05	12	72	30	1.750	2,070	450
4EC-1236-05	12	72	36	1.730	2,136	535
4EC-1244-05	12	72	44	1.910	2,485	655

Other sizes available. Call your local sales representative.

Crane and Festoon Cable

Spreaderflex



PVC insulation
Kevlar messenger
Polyurethane jacket
75°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Extra flexible stranded copper
2. INSULATION: Polyvinyl chloride (PVC)
3. COLOR CODE: Method 4 per ICEA S-73-532 (NEMA WC57)
4. ASSEMBLY: Overall textile taped reinforcement and cotton braid covered lead bead cords, Kevlar braided reinforcement messenger
5. OVERALL JACKET: Polyurethane
6. TEMPERATURE: -55°C to 75°C
7. VOLTAGE: 600 V

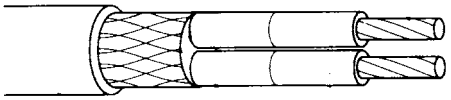
APPLICATIONS

Designed specifically for use in container crane spreader baskets. The self-coiling and uncoiling operation and vertical suspension cause combined torsional/tensional forces unlike those occurring in other applications. This cable allows for adverse factors such as high winds, and increasing hoist and travel speeds on new generation cranes.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
4ES-1220	12	73	20	1.260	1,310
4ES-1224	12	73	24	1.320	1,725
4ES-1230	12	73	30	1.460	1,995
4ES-1236	12	73	36	1.590	2,655
4ES-1242	12	73	42	1.770	3,375

Other sizes available. Call your local sales representative.

Type W Round CV Cured



EPR insulation
TS CPE jacket
90°C, 600/2,000 V

SPECIFICATIONS

1. CONDUCTOR: Rope-stranded copper
2. INSULATION: Ethylene Propylene Rubber (EPR)
3. ASSEMBLY: Two conductors cabled with fillers, over-wrapped with reinforced binder, separator where applicable
4. OVERALL JACKET: CV cured two pass, braid-reinforced TS CPE
5. STANDARDS: Meets the requirements of ICEA S-68-516, accepted by MSHA and marked with the manufacturer's P number
6. TEMPERATURE: 90°C
7. VOLTAGE: 600/2,000 V

APPLICATIONS

For use with magnet cranes and other mobile or portable electrical equipment. Can be used on equipment with reeling devices.

Anixter No.	Conductor Size AWG	No. of Strands	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
5D-0802C	8	133	0.110	0.794	400
5D-0602C	6	133	0.125	0.910	580
5D-0402C	4	133	0.140	1.032	770
5D-0202C	2	133	0.155	1.220	1,150

Lead cured available upon request.
Diameters and weights may vary among manufacturers.

Crane and Festoon Cable

Cordaflex (K)

EPR insulation
Braid-reinforced
Dual neoprene jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Extra flexible tinned copper
2. INSULATION: Ozone-resistant Ethylene Propylene Rubber (EPR)
3. COLOR CODE: ICEA S-73-532 (NEMA WC57) Method 4
4. OVERALL JACKET: Heavy-duty double-extruded black neoprene with a high-tenacity textile braid reinforcement
5. STANDARDS: Accepted by MSHA, UL and VDE
6. TEMPERATURE: -55°C to 90°C
7. VOLTAGE: 600 V

APPLICATIONS

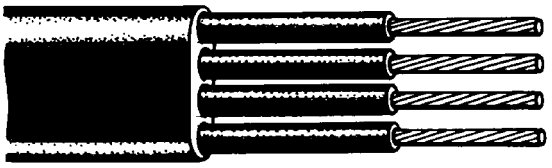
Ideal for cable-handling systems such as cable reels, festoon systems or power tracks for which extended flex life is a major consideration. Cordaflex (K)'s extremely flexible conductor assembly and jacket material ensure superior cable flexlife for applications characterized by tensions and repeated bending.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Max. Reeling Tension (lb.)
4EC-1604	16	45	4	0.530	158	25
4EC-1605	16	45	5	0.570	180	30
4EC-1607	16	45	7	0.710	295	40
4EC-1609	16	45	9	0.790	383	50
4EC-1612	16	45	12	0.790	390	70
4EC-1616	16	45	16	0.905	500	90
4EC-1620	16	45	20	0.985	628	120
4EC-1624	16	45	24	1.080	750	140
4EC-1630	16	45	30	1.160	835	180
4EC-1636	16	45	36	1.240	960	210
4EC-1404	14	71	4	0.590	190	40
4EC-1407	14	71	7	0.790	375	65
4EC-1409	14	71	9	0.905	530	85
4EC-1412	14	71	12	0.925	535	110
4EC-1416	14	71	16	1.025	660	150
4EC-1424	14	71	24	1.240	995	220
4EC-1430	14	71	30	1.300	1,115	280
4EC-1444	14	71	44	1.655	1,740	410
4EC-1204	12	72	4	0.710	280	60
4EC-1207	12	72	7	0.925	530	100
4EC-1209	12	72	9	1.025	705	135
4EC-1212	12	72	12	1.045	720	180
4EC-1216	12	72	16	1.180	940	240
4EC-1220	12	72	20	1.300	1,200	300
4EC-1224	12	72	24	1.475	1,450	360
4EC-1230	12	72	30	1.530	1,620	450
4EC-1236	12	72	36	1.710	1,975	535
4EC-1244	12	72	44	1.890	2,380	655

Other sizes available.

Crane and Festoon Cable

Planoflex



Flat construction
EPR insulation
Neoprene jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Extra flexible bare stranded copper
2. INSULATION: Ethylene Propylene Rubber (EPR)
3. COLOR CODE: ICEA S-73-532 (NEMA WC57) Method 4
4. OVERALL JACKET: Neoprene
5. STANDARDS: VDE and UL
6. TEMPERATURE: -55°C to 90°C
7. VOLTAGE: 600 V

APPLICATIONS

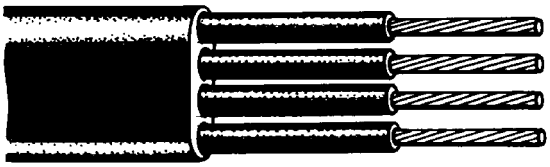
Planoflex is suitable for crane festoon systems, and other materials handling equipment, both indoor and outdoor, over a wide temperature range.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
4EF-1604-NEO	16	77	4	0.225 x 0.600	107
4EF-1608-NEO	16	77	8	0.225 x 1.120	208
4EF-1612-NEO	16	77	12	0.245 x 1.655	342
4EF-1624-NEO	16	77	24	0.470 x 2.030	705
4EF-1404-NEO	14	130	4	0.275 x 0.785	181
4EF-1408-NEO	14	130	8	0.275 x 1.455	350
4EF-1412-NEO	14	130	12	0.295 x 2.165	557
4EF-1424-NEO	14	130	24	0.610 x 2.675	1,162
4EF-1204-NEO	12	210	4	0.335 x 0.945	268
4EF-1207-NEO	12	210	7	0.335 x 1.535	457
4EF-1212-NEO	12	190	12	0.330 x 2.440	760
4EF-1004-NEO	10	175	4	0.355 x 1.045	335
4EF-1007-NEO	10	175	7	0.355 x 1.730	577
4EF-0804-NEO	8	300	4	0.415 x 1.300	510
4EF-0604-NEO	6	480	4	0.490 x 1.495	739
4EF-0404-NEO	4	750	4	0.550 x 1.810	1,061
4EF-0204-NEO	2	276	4	0.650 x 2.085	1,444

Shielded pairs or conductors available upon request.

Crane and Festoon Cable

Flat Festoon PVC



Flat construction
PVC insulation
PVC jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Extra flexible bare stranded copper
2. INSULATION: PVC
3. COLOR CODE: ICEA S-73-532 (NEMA WC57) Method 4
4. OVERALL JACKET: PVC
5. STANDARDS: UL
6. TEMPERATURE: -40°C to 105°C
7. VOLTAGE: 600 V

APPLICATIONS

Festoon systems in power and control applications.

FLAT FESTOON PVC
Unshielded

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
4EF-0204-PVC	2	665	4	0.575 x 1.975	1,278
4EF-0404-PVC	4	413	4	0.515 x 1.750	896
4EF-0604-PVC	6	259	4	0.450 x 1.500	635
4EF-0804-PVC	8	168	4	0.375 x 1.225	401
4EF-1004-PVC	10	105	4	0.290 x 0.890	239
4EF-1204-PVC	12	65	4	0.260 x 0.800	180
4EF-1208-PVC	12	65	8	0.260 x 1.440	343
4EF-1404-PVC	14	105	4	0.240 x 0.690	138
4EF-1408-PVC	14	105	8	0.240 x 1.290	254
4EF-1412-PVC	14	105	12	0.240 x 1.825	380
4EF-1608-PVC	16	65	8	0.225 x 1.170	194
4EF-1612-PVC	16	65	12	0.225 x 1.700	292

FLAT FESTOON PVC
Shielded yellow

Anixter No.	Conductor Size AWG	No. of Conductors	No. of Strands	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
4EF-1608S-PVC	16	8	65	0.030	0.260	220	14
4EF-1612S-PVC	16	12	65	0.030	0.260	456	14
4EF-1412S-PVC	14	12	105	0.030	0.270	520	19

ANIXTER

TECHbrief

Why Thermoset Jackets on Wire and Cable?

The Right Choice for Critical Applications

Even though there are many insulating and jacketing materials available today in the design and manufacture of wire and cable, thermoset materials have consistently outperformed their thermoplastic counterparts. The biggest difference between thermoplastic and thermoset (or cross-linked) materials is how the materials react to heat. Where thermoplastic materials have the ability to be molded, melted and remolded again, thermoset materials such as rubber are "set" (cured or vulcanized) during the extrusion process. Once a thermoset material has been cured, it cannot be remolded, which provides a more durable jacket that will not melt when exposed to high-load or short-circuit conditions.

Conversely, thermoplastic materials will deform under high heat, which will result in the degradation of the jacket's physical properties. This is why performance-conscious users specify thermoset jackets in applications where reliability is an absolute necessity. The table below provides an overview of the features and application benefits of thermoset and thermoplastic material and details why thermoset jackets continue to be the preferred insulating and jacketing material for critical applications.

Thermoset Materials Features and Benefits

Product Feature	Application Benefit
Superior tensile strength	• Provides extra resistance against damage during difficult installations • Allows for more robust installation
Outstanding elongation properties	• Provides a more flexible jacket, which makes it easier to bend and train during installation
Less degradation over time	• Extends service life, even in the harshest of applications
Excellent thermal stability	• Does not melt under high heat and pressure, reducing faults caused by compound flow • Delivers consistent performance at a wider temperature range
More stringent oil resistance testing	• Offers superior performance and longer cable service life in installations where high degrees of oil and chemicals are present • Exhibits greater oil resistance characteristics at a wider temperature range
Increased flame resistance	• Burns to an ash when exposed to flame • Does not exhibit thermoplastic drip, which can spread flame to other components under fire conditions

As you see in the features and benefits table, thermoset jackets outperform thermoplastic jackets in every category and outclass thermoplastics entirely in terms of overall physical robustness, thermal stability, oil resistance and flame resistance. These are some of the reasons that thermoset jackets remain to be the material of choice for critical applications.

Also read Anixter's TECHBrief:
Anixter Leads the Seamless Transition from Hypalon

Contact your local Anixter representative or call 1.800.ANIXTER for more information.

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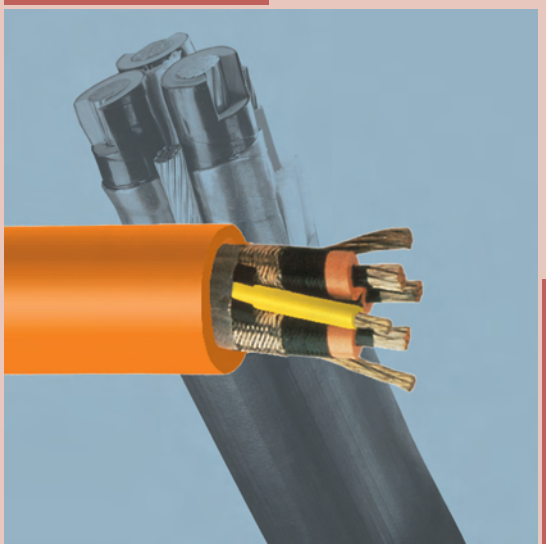


Mining Cable

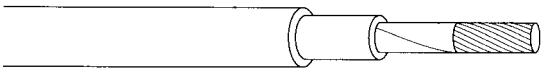
General Cable

Southwire®
WE DELIVER POWER... RESPONSIBLY

DLO

2 kV

CPE jacket
90°C,
2 kV UL
UL Listed



SPECIFICATIONS

1. CONDUCTOR: Extra flexible, tinned, annealed, stranded copper, suitable separator may be used between conductor and insulation. Conductor sizes per AAR 589
2. INSULATION: Ethylene Propylene Rubber (EPR) meeting requirements of ICEA S-95-658 (NEMA WC70)
3. OVERALL JACKET: CPE
4. STANDARDS: UL Listed RHH/RHW per UL 44 requirements
5. AMPACITY: Based on a single conductor in free air per NEC Table 310.17, an ambient temperature of 30°C and a conductor temperature of 90°C
6. TEMPERATURE: 90°C
7. VOLTAGE: 2 kV UL

APPLICATIONS

Portable or fixed power cable for use in drilling rigs, diesel-electric locomotives, railroad and transit car wiring, where reliability is a prime concern. Also suitable for electrically-driven earth-moving equipment, water-heater leads, power and control jumpers, case wiring and motor leads.

Anixter No.	Conductor Size Circular Mils	Approximate Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5N-1401-CPE	4,105	14	19	0.045	0.015	0.210	34	35
5N-1201-CPE	6,088	12	19	0.045	0.015	0.240	45	40
5N-1001-CPE	10,910	10	27	0.045	0.015	0.260	60	55
5N-0801-CPE	14,950	8	37	0.055	0.030	0.326	86	80
5N-0601-CPE	24,640	6	61	0.055	0.030	0.365	124	105
5N-0401-CPE	42,420	4	105	0.055	0.030	0.460	198	140
5N-0201-CPE	60,600	2	147	0.055	0.030	0.498	261	190
5N-0101-CPE	90,900	1	224	0.065	0.045	0.618	400	220
5N-1011-CPE	111,100	1/0	266	0.065	0.045	0.664	468	260
5N-2021-CPE	131,300	2/0	323	0.065	0.045	0.704	561	300
5N-3031-CPE	181,800	3/0	418	0.065	0.045	0.789	725	350
5N-4041-CPE	222,200	4/0	532	0.065	0.045	0.839	888	405
5N-2621-CPE	262,600	262.6	646	0.075	0.065	0.973	1,048	467
5N-3131-CPE	313,100	313.1	777	0.075	0.065	1.029	1,227	522
5N-3731-CPE	373,700	373.7	925	0.075	0.065	1.094	1,436	591
5N-4441-CPE	444,400	444.4	1,110	0.075	0.065	1.169	1,691	652
5N-5351-CPE	535,300	535.3	1,332	0.090	0.065	1.295	2,034	728
5N-6461-CPE	646,400	646.4	1,591	0.090	0.065	1.368	2,395	815
5N-7771-CPE	777,700	777.7	1,924	0.090	0.065	1.488	3,050	904

Single conductor also available in Type W.
Diameters and weights may vary among manufacturers.

Drill Cord

Drill Cord

EPR insulation
Thermoset jacket
90°C, 600 V
MSHA

SPECIFICATIONS

1. CONDUCTOR: Flexible, annealed, uncoated, copper. A separator tape is applied over the conductor
2. INSULATION: Synthetic rubber per the requirements of ICEA S-75-381 (NEMA WC58)
3. ASSEMBLY: Cabled with fillers where necessary to make round
4. OVERALL JACKET: Cotton yarn reinforced thermoset jacket
5. AMPACITY: Based on an ambient temperature of 30°C per ICEA S-75-381, see ICEA correction factors if used with one or more layers wound on a reel
6. TEMPERATURE: 90°C
7. VOLTAGE: 600 V

APPLICATIONS

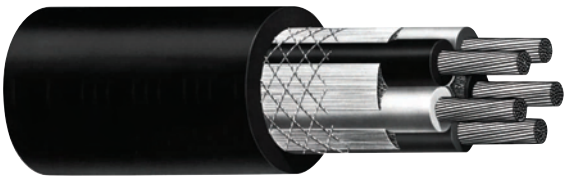
For use on drills and other mining equipment. For use on circuits not exceeding 600 volts at a maximum conductor temperature of 90°C.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5AA-1403	14	41	3	0.045	0.67	263	15
5AA-1404	14	41	4	0.045	0.71	303	12
5AA-1405	14	41	5	0.045	0.78	375	12
5AA-1205	12	65	5	0.045	0.83	450	16
5AA-1206	12	65	6	0.045	0.89	515	16
5AA-1005	10	104	5	0.045	0.90	535	20

See the Conductor Color Code at the end of this section.
Diameters and weights may vary among manufacturers.

Type G CV Cured

Type G CV Cured



EPR insulation
Thermoset jacket
90°C, 2 kV

SPECIFICATIONS

1. CONDUCTOR: Rope-stranded, uncoated copper
2. INSULATION: Ethylene Propylene Rubber (EPR)
3. GROUND CONDUCTORS: Four flexible stranded copper wires
4. ASSEMBLY: Conductors and ground wires cabled with fillers as necessary
5. OVERALL JACKET: CV cured thermoset compound
6. STANDARDS: Meets the requirements of ICEA S-75-381 (NEMA WC58), accepted by MSHA and marked with the manufacturer's P number, UL Listed Type G per UL Subject 1650
7. AMPACITY: Based on an ambient temperature of 30°C per NEC Table 400.5(B), four conductors carrying current
8. TEMPERATURE: 90°C
9. VOLTAGE: 2 kV

APPLICATIONS

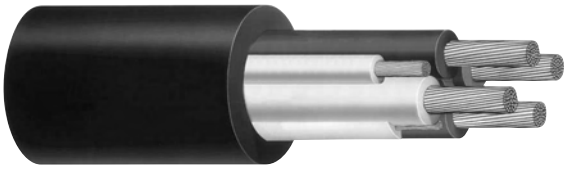
For use as flexible power lead with any portable or mobile equipment such as pumps, welders, mining machines and mine conveyor equipment.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Ground Wire Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5E-0804C	8	133	4	0.060	12	1.05	705	54
5E-0604C	6	65	4	0.060	12	1.13	916	70
5E-0404C	4	133	4	0.060	10	1.27	1,311	91
5E-0204C	2	133	4	0.060	9	1.48	1,899	122
5E-1014C	1/0	259	4	0.080	7	1.79	2,882	164
5E-2024C	2/0	259	4	0.080	6	1.93	3,435	190
5E-4044C	4/0	259	4	0.080	4	2.26	5,058	255

See the Conductor Color Code at the end of this section.
Lead cured available upon request.
Diameters and weights may vary among manufacturers.

Type G-GC CV Cured

Type G-GC CV Cured



EPR insulation
Thermoset jacket
90°C, 2 kV

SPECIFICATIONS

1. CONDUCTOR: Rope-stranded, uncoated copper per ASTM B-172
2. INSULATION: Ethylene Propylene Rubber (EPR)
3. COLOR CODE: Black, white and red
4. GROUND AND GROUND CHECK: Insulated, stranded copper
5. ASSEMBLY: Three insulated conductors, two ground conductors and one yellow ground check conductor, cabled with fillers
6. OVERALL JACKET: CV cured thermoset compound
7. STANDARDS: Meets the requirements of ICEA S-75-381 (NEMA WC58), accepted by MSHA and marked with the manufacturer's P number, UL Listed Type G-GC per UL Subject 1650 requirements
8. AMPACITY: Based on an ambient temperature of 40°C and conductor temperature of 90°C per ICEA S-75-381 table. Additional ampacities available in 2008 NEC Table 400.5(B)
9. TEMPERATURE: -40°C to 90°C
10. VOLTAGE: 2 kV

APPLICATIONS

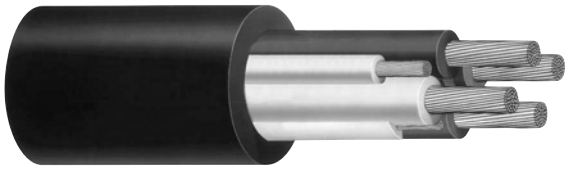
For use as flexible power lead with portable or mobile equipment such as pumps, welders, mining machines and mine conveyor equipment.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Ground Wire Size Number	Ground Wire Size AWG	Ground Check Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5F-0803C	8	133	3	0.060	2	10	10	0.97	682	59
5F-0603C	6	133	3	0.060	2	10	10	1.05	830	79
5F-0403C	4	133	3	0.060	2	8	10	1.19	1,128	104
5F-0203C	2	133	3	0.060	2	7	10	1.33	1,451	138
5F-0103C	1	133	3	0.080	2	6	8	1.49	1,856	161
5F-1013C	1/0	259	3	0.080	2	5	8	1.62	2,270	186
5F-2023C	2/0	259	3	0.080	2	4	8	1.75	3,020	215
5F-3033C	3/0	259	3	0.080	2	3	8	1.86	3,660	249
5F-4043C	4/0	259	3	0.080	2	2	8	1.97	4,147	287
5F-2503C	250	427	3	0.095	2	2	8	2.39	6,060	320
5F-3503C	350	427	3	0.095	2	1/0	8	2.68	7,058	394
5F-5003C	500	427	3	0.095	2	2/0	8	3.03	8,900	487

See the Conductor Color Code at the end of this section.
Lead cured available upon request (5F-XXXX).
Diameters, ground check size and weights may vary among manufacturers.

Type G-GC Lead Cured

Type G-GC Lead Cured



Heavy duty
EPR insulation
Thermoset CPE jacket
90°C, 2 kV

SPECIFICATIONS

1. CONDUCTOR: Rope-stranded, tinned copper per ASTM B172
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-75-381 (NEMA WC58)
3. GROUND AND GROUND CHECK: Stranded, tinned copper
4. ASSEMBLY: Three insulated conductors, two ground conductors and one yellow ground check conductor, cabled with fillers
5. OVERALL JACKET: Lead cured thermoset compound
6. STANDARDS: Meets the requirements of ICEA S-75-381, accepted by MSHA and marked with the manufacturer's P number, CSA C22.2 No. 96 certified
7. AMPACITY: Based on an ambient temperature of 40°C and conductor temperature of 90°C per ICEA S-75-381 table. Additional ampacities available in 2008 NEC Table 400.5 (B).
8. TEMPERATURE: -50°C to 90°C
9. VOLTAGE: 2 kV

APPLICATIONS

For use as flexible power lead with portable or mobile equipment such as pumps, welders, mining machines and mine conveyor equipment.

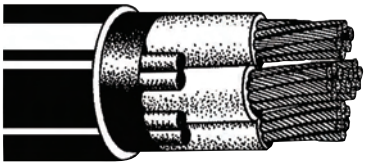
Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Ground Wire Size AWG	Ground Check Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5F-0803	8	133	3	0.060	10	10	0.97	597	59
5F-0603	6	133	3	0.060	10	10	1.05	764	79
5F-0403	4	259	3	0.060	8	10	1.19	1,070	104
5F-0203	2	259	3	0.060	7	10	1.34	1,533	138
5F-0103	1	259	3	0.080	6	8	1.51	1,865	161
5F-1013	1/0	259	3	0.080	5	8	1.65	2,315	186
5F-2023	2/0	259	3	0.080	4	8	1.75	2,750	215
5F-3033	3/0	259	3	0.080	3	8	1.89	3,330	249
5F-4043	4/0	259	3	0.080	2	8	2.04	4,095	287

See the Conductor Color Code at the end of this section.
CV cured available see 5F-XXXXC).
Diameters, ground check size and weights may vary among manufacturers.

Type W CV Cured

Type W CV Cured

EPR insulation
Thermoset jacket
90°C, 2 kV



SPECIFICATIONS

1. CONDUCTOR: Rope-stranded copper
2. INSULATION: Ethylene Propylene Rubber (EPR)
3. ASSEMBLY: The specified number of conductors cabled with fillers, over-wrapped with reinforced binder, separator where applicable
4. OVERALL JACKET: CV cured thermoset compound
5. STANDARDS: Meets the requirements of ICEA S-75-381 (NEMA WC58), accepted by MSHA and marked with the manufacturer's P number, Listed Type W per UL Subject 1650
6. AMPACITY: Based on an ambient temperature of 40°C and conductor temperature of 90°C per ICEA S-75-381 table. Additional ampacities available in 2008 NEC Table 400.5 (B)
7. TEMPERATURE: 90°C
8. VOLTAGE: 2 kV

APPLICATIONS

For use in mining machines, loaders and welders; as motor leads; in temporary power installations; in utility maintenance; and in other mobile equipment.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5B-0801C	8	133	1	0.060	0.440	130	83
5B-0601C	6	133	1	0.060	0.510	175	109
5B-0401C	4	259	1	0.060	0.570	230	145
5B-0201C	2	259	1	0.060	0.660	375	192
5B-0101C	1	259	1	0.080	0.74	455	223
5B-1011C	1/0	259	1	0.080	0.77	500	258
5B-2021C	2/0	259	1	0.080	0.82	600	298
5B-4041C	4/0	259	1	0.080	0.93	895	400
5B-2501C	250	427	1	0.095	1.03	1,101	445
5B-3501C	350	427	1	0.095	1.15	410	552
5B-5001C	500	427	1	0.095	1.31	940	695
5B-0802C	8	133	2	0.060	0.810	400	72
5B-0602C	6	133	2	0.060	0.930	580	95
5B-0402C	4	259	2	0.060	1.080	770	127
5B-0202C	2	259	2	0.060	1.270	150	167
5B-0803C	8	133	3	0.060	1.005	564	59
5B-0603C	6	133	3	0.060	1.010	740	79
5B-0403C	4	259	3	0.060	1.170	1,050	104
5B-0203C	2	259	3	0.060	1.340	390	139
5B-0103C	1	133	3	0.080	1.51	800	161
5B-1013C	1/0	259	3	0.080	1.65	2,320	186
5B-2023C	2/0	259	3	0.080	1.75	2,590	215
5B-4043C	4/0	259	3	0.080	2.04	715	287
5B-5003C	500	427	3	0.095	3.03	8,080	487
5B-0804C	8	133	4	0.060	1.025	674	54
5B-0604C	6	133	4	0.060	1.100	895	72
5B-0404C	4	259	4	0.060	1.270	300	93
5B-0204C	2	259	4	0.060	1.48	805	122
5B-0104C	1	259	4	0.080	1.68	260	143

See the Conductor Color Code at the end of this section.
Lead cured available upon request (5B-XXXX).
Diameters and weights may vary among manufacturers.

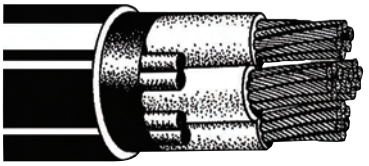
Type W CV Cured

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5B-1014C	1/0	259	4	0.080	1.79	605	165
5B-2024C	2/0	259	4	0.080	1.93	380	192
5B-3034C	3/0	259	4	0.080	2.07	850	221
5B-4044C	4/0	259	4	0.080	2.26	4,505	255
5B-0805C	8	133	5	0.060	1.025	674	54
5B-0605C	6	133	5	0.060	1.100	895	72
5B-0405C	4	259	5	0.060	1.270	300	93
5B-0205C	2	259	5	0.060	1.48	805	122
5B-1015C	1/0	259	5	0.080	1.79	605	165

See the Conductor Color Code at the end of this section.
Lead cured available upon request (5B-XXXX).
Diameters and weights may vary among manufacturers.

Type W Lead Cured

Type W Lead Cured



Heavy duty
EPR insulation
Thermoset jacket
90°C, 600/2,000 V

SPECIFICATIONS

1. CONDUCTOR: Rope-stranded, tinned copper
2. INSULATION: Ethylene Propylene Rubber (EPR)
3. ASSEMBLY: The specified number of conductors cabled with fillers, over-wrapped with reinforced binder, separator where applicable
4. OVERALL JACKET: Lead cured thermoset compound
5. STANDARDS: Meets the requirements of ICEA S-75-381 (NEMA WC58), accepted by MSHA and marked with the manufacturer's P number
6. AMPACITY: Based on an ambient temperature of 40°C and conductor temperature of 90°C per ICEA S-75-381, Table H-1. Additional ampacities available in NEC Table 400.5 (B)
7. TEMPERATURE: 90°C
8. VOLTAGE: 600/2,000 V

APPLICATIONS

For use in mining machines, loaders and welders; as motor leads; in temporary power installations; in utility maintenance; and in other mobile equipment.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5B-0801	8	133	1	0.060	0.440	130	83
5B-0802	8	133	2	0.060	0.810	400	72
5B-0803	8	133	3	0.060	1.005	564	59
5B-0804	8	133	4	0.060	1.025	674	54
5B-0601	6	133	1	0.060	0.510	175	109
5B-0602	6	133	2	0.060	0.930	580	95
5B-0603	6	133	3	0.060	1.010	740	79
5B-0604	6	133	4	0.060	1.100	895	72
5B-0401	4	259	1	0.060	0.570	230	145
5B-0402	4	259	2	0.060	1.080	770	127
5B-0403	4	259	3	0.060	1.170	1,050	104
5B-0404	4	259	4	0.060	1.270	1,300	93
5B-0301	3	259	1	0.060	0.630	310	167
5B-0303	3	259	3	0.060	1.240	1,195	120
5B-0304	3	259	4	0.060	1.340	1,465	106
5B-0201	2	259	1	0.060	0.660	375	192
5B-0202	2	259	2	0.060	1.270	1,150	167
5B-0203	2	259	3	0.060	1.340	1,390	139
5B-0204	2	259	4	0.060	1.48	1,805	122
5B-0101	1	259	1	0.080	0.74	455	223
5B-0102	1	259	2	0.080	1.44	1,500	191
5B-0103	1	259	3	0.080	1.51	1,775	161
5B-0104	1	259	4	0.080	1.68	2,260	143
5B-1011	1/0	259	1	0.080	0.77	500	258
5B-1012	1/0	259	2	0.080	1.52	1,700	217
5B-1013	1/0	259	3	0.080	1.65	2,320	186
5B-1014	1/0	259	4	0.080	1.79	2,605	165
5B-2021	2/0	259	1	0.080	0.82	600	298
5B-2022	2/0	259	2	0.080	1.65	2,220	250

See the Conductor Color Code at the end of this section.
CV cured available.
Diameters and weights may vary among manufacturers.

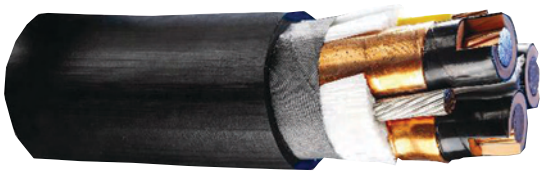
Type W Lead Cured

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5B-2023	2/0	259	3	0.080	1.75	2,590	215
5B-2024	2/0	259	4	0.080	1.93	3,380	192
5B-3031	3/0	259	1	0.080	0.89	770	345
5B-3033	3/0	259	3	0.080	1.89	2,345	249
5B-3034	3/0	259	4	0.080	2.07	3,850	221
5B-4041	4/0	259	1	0.080	0.93	895	400
5B-4043	4/0	259	3	0.080	2.04	3,715	287
5B-4044	4/0	259	4	0.080	2.26	4,505	255
5B-2501	250	608	1	0.095	1.03	1,101	445
5B-2503	250	608	3	0.095	2.39	4,050	320
5B-3501	350	851	1	0.095	1.15	1,410	552
5B-3503	350	851	3	0.095	2.68	5,300	394
5B-5001	500	1,221	1	0.095	1.31	1,940	695
5B-5003	500	1,221	3	0.095	3.03	8,080	487

See the Conductor Color Code at the end of this section.
CV cured available.
Diameters and weights may vary among manufacturers.

MPF-GC 5 kV, 8 kV or 15 kV

MPF-GC 5 kV, 8 kV or 15 kV



Mine power feeder
EPR insulation
Thermoset jacket
90°C shielded

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper, an extruded semi-conducting compound is applied over the conductor
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-75-381 (NEMA WC58)
3. SHIELD: An extruded semi-conducting compound is applied over the insulation, a flat copper tape is helically applied
4. COLOR CODE: Either printing or marker tapes applied under the copper tape, (black, white and red)
5. ASSEMBLY: Insulated conductors, two tinned Class B stranded uninsulated ground wires, yellow insulated ground check wire and fillers are assembled with an overall polyester tape
6. OVERALL JACKET: Thermoset compound per ICEA S-75-381
7. STANDARDS: Meets the requirements of ICEA S-75-381, accepted by MSHA and marked with the manufacturer's P number
8. AMPACITY: Based on an ambient temperature of 40°C per ICEA S-75-381, Table H-1
9. TEMPERATURE: 90°C
10. VOLTAGE: 5 kV, 8 kV and 15 kV

APPLICATIONS

Suitable for installation in boreholes, shafts, horizontal runs in underground tunnels, aerial suspension on insulators and other semi-permanent mining and industrial feeder installations.

5 KV

See the Conductor Color Code at the end of this section. Diameters and weights may vary among manufacturers.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Ground Wire Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5P-0605	6	7	0.090	0.110	10	1.30	1,060	93
5P-0405	4	7	0.090	0.110	8	1.41	1,325	122
5P-0205	2	7	0.090	0.110	6	1.47	1,651	159
5P-0105	1	7	0.090	0.110	5	1.54	1,918	184
5P-1005	1/0	19	0.090	0.110	4	1.63	2,244	211
5P-2005	2/0	19	0.090	0.140	3	1.72	2,644	243
5P-3005	3/0	19	0.090	0.140	2	1.89	3,265	279
5P-4005	4/0	19	0.090	0.140	1	2.01	3,890	321
5P-2505	250	37	0.090	0.140	1/0	2.10	4,474	355
5P-3505	350	37	0.090	0.140	2/0	2.31	5,765	435
5P-5005	500	37	0.090	0.140	4/0	2.59	7,906	536

MPF-GC 5 kV, 8 kV or 15 kV

8 KV

See the Conductor Color Code at the end of this section. Diameters and weights may vary among manufacturers.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Ground Wire Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5P-0608	6	7	0.115	0.110	10	1.41	1,175	93
5P-0408	4	7	0.115	0.110	8	1.52	1,455	122
5P-0208	2	7	0.115	0.110	6	1.58	1,787	159
5P-0108	1	19	0.115	0.110	5	1.66	2,059	184
5P-1008	1/0	19	0.115	0.110	4	1.74	2,378	211
5P-2008	2/0	19	0.115	0.140	3	1.90	2,912	243
5P-3008	3/0	19	0.115	0.140	2	2.00	3,432	265
5P-4008	4/0	19	0.115	0.140	1	2.12	4,056	310
5P-2508	250	37	0.115	0.140	1/0	2.22	4,647	355
5P-3508	350	37	0.115	0.140	2/0	2.43	5,979	435
5P-5008	500	37	0.115	0.140	4/0	2.70	8,150	536

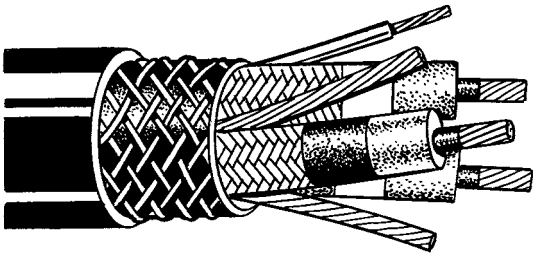
15 KV

See the Conductor Color Code at the end of this section. Diameters and weights may vary among manufacturers.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Ground Wire Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5P-0215	2	7	0.175	0.140	6	1.90	2,248	164
5P-0115	1	19	0.175	0.140	5	1.99	2,552	187
5P-1015	1/0	19	0.175	0.140	4	2.07	2,901	215
5P-2015	2/0	19	0.175	0.140	3	2.16	3,341	246
5P-3015	3/0	19	0.175	0.140	2	2.27	3,878	283
5P-4015	4/0	19	0.175	0.140	1	2.39	4,541	325
5P-25015	250	37	0.175	0.140	1/0	2.48	5,145	359
5P-35015	350	37	0.175	0.140	2/0	2.70	6,517	438
5P-50015	500	37	0.175	0.170	4/0	3.08	9,058	536

SHD-GC 2 kV

SHD-GC 2 kV



EPR insulation
Thermoset jacket
90°C

SPECIFICATIONS

1. CONDUCTOR: Rope-stranded, annealed, tinned copper
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-75-381 (NEMA WC58)
3. SHIELD: Braided, tinned copper shield, or combination braid shield of tinned copper and nylon
4. GROUND CONDUCTOR: Flexible stranded, coated, annealed copper
5. GROUND CHECK CONDUCTOR: Insulated extra flexible stranded, annealed copper with yellow insulation
6. ASSEMBLY: Three conductors, two ground conductors and one ground check conductor, cabled with fillers as necessary to make round
7. OVERALL JACKET: Thermoset compound
8. STANDARDS: Meets the requirements of ICEA S-75-381, accepted by MSHA and marked with the manufacturer's P number
9. AMPACITY: Based on an ambient temperature of 40°C per ICEA S-75-381, Table H-1
10. TEMPERATURE: 90°C
11. VOLTAGE: 2 kV

APPLICATIONS

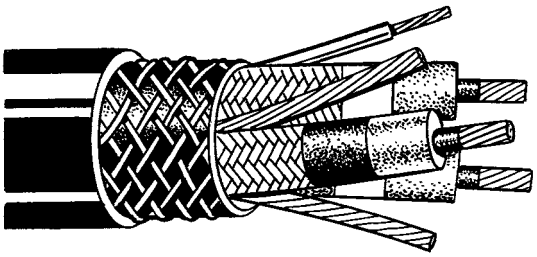
For use with longwall miners, continuous miners, conveyors, pumps, drills, cutters and loaders. Suitable for high-voltage distribution in mines where portable power is required.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Ground Wire Size AWG	Ground Check Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5S-0602	6	133	0.070	0.155	10	10	1.29	1,465	93
5S-0402	4	133	0.070	0.155	8	10	1.40	1,727	122
5S-0202	2	133	0.070	0.170	6	8	1.59	2,390	159
5S-0102	1	259	0.080	0.190	5	8	1.76	2,450	184
5S-1002	1/0	259	0.080	0.190	4	8	1.86	2,779	211
5S-2002	2/0	259	0.080	0.205	3	8	2.00	3,310	243
5S-3032	3/0	259	0.080	0.205	2	8	2.13	3,950	279
5S-4002	4/0	259	0.080	0.220	1	6	2.31	4,630	321
5S-2502	250	427	0.095	0.220	1/0	6	2.51	5,440	355
5S-3502	350	427	0.095	0.235	2/0	6	2.81	7,030	435
5S-5002	500	427	0.095	0.265	4/0	6	3.19	9,525	536

See the Conductor Color Code at the end of this section.
Diameters and weights may vary among manufacturers.

SHD-GC 5 kV, 8 kV or 15 kV

SHD-GC 5 kV, 8 kV or 15 kV



EPR insulation
Thermoset jacket
90°C shielded

SPECIFICATIONS

1. CONDUCTOR: Rope-stranded, annealed, tinned copper
2. STRAND SHIELD: Extruded semi-conducting compound or tape over conductor
3. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-75-381 (NEMA WC58)
4. INSULATION SHIELD: Braided, tinned copper shield, or combination braid shield of tinned copper and nylon
5. GROUND CONDUCTOR: Flexible stranded, coated, annealed copper
6. GROUND CHECK CONDUCTOR: Insulated extra flexible 8 AWG annealed copper with yellow insulation
7. ASSEMBLY: Three conductors, two ground conductors and one ground check conductor, cabled with rubber fillers as necessary to make round
8. OVERALL JACKET: Braid-reinforced thermoset compound
9. STANDARDS: Meets the requirements of ICEA S-75-381, accepted by MSHA and marked with the manufacturer's P number
10. AMPACITY: Based on an ambient temperature of 40°C per ICEA S-75-381, Table H-1
11. TEMPERATURE: 90°C
12. VOLTAGE: 5 kV, 8 kV and 15 kV

APPLICATIONS

For use on open-pit mining shovels, dredges, cranes, drag lines or other mobile equipment requiring high-voltage cable lines capable of withstanding continuous flexing or reeling in severe operating environments.

5 KV

See the Conductor Color Code at the end of this section. Diameters and weights may vary among manufacturers.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Ground Wire Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5S-0605	6	133	3	0.110	0.185	10	1.56	1,590	93
5S-0405	4	133	3	0.110	0.185	8	1.68	1,800	122
5S-0205	2	259	3	0.110	0.205	6	1.87	2,245	159
5S-0105	1	259	3	0.110	0.205	5	1.95	2,570	184
5S-1005	1/0	259	3	0.110	0.220	4	2.08	3,055	211
5S-2005	2/0	259	3	0.110	0.220	3	2.20	3,490	243
5S-3005	3/0	259	3	0.110	0.235	2	2.36	4,234	279
5S-4005	4/0	259	3	0.110	0.235	1	2.50	4,915	321
5S-3505	350	427	3	0.120	0.265	2/0	2.95	6,995	435
5S-5005	500	427	3	0.120	0.280	4/0	3.31	9,800	536

8 KV

See the Conductor Color Code at the end of this section. Diameters and weights may vary among manufacturers.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Ground Wire Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5S-0408	4	133	3	0.150	0.205	8	1.94	2,020	122
5S-0208	2	259	3	0.150	0.220	6	2.12	2,477	159
5S-0108	1	259	3	0.150	0.220	5	2.21	2,855	184
5S-1008	1/0	259	3	0.150	0.220	4	2.32	3,255	211
5S-2008	2/0	259	3	0.150	0.235	3	2.46	3,820	243
5S-3008	3/0	259	3	0.150	0.220	2	2.62	4,520	279
5S-4008	4/0	259	3	0.150	0.250	1	2.75	5,202	321
5S-3508	350	427	3	0.150	0.280	2/0	3.20	8,010	435
5S-5008	500	427	3	0.150	0.295	4/0	3.56	10,220	536

Continued on next page >>

SHD-GC 5 kV, 8 kV or 15 kV

(continued) SHD-GC 5 kV, 8 kV or 15 kV

15 KV

See the Conductor Color Code at the end of this section. Diameters and weights may vary among manufacturers.

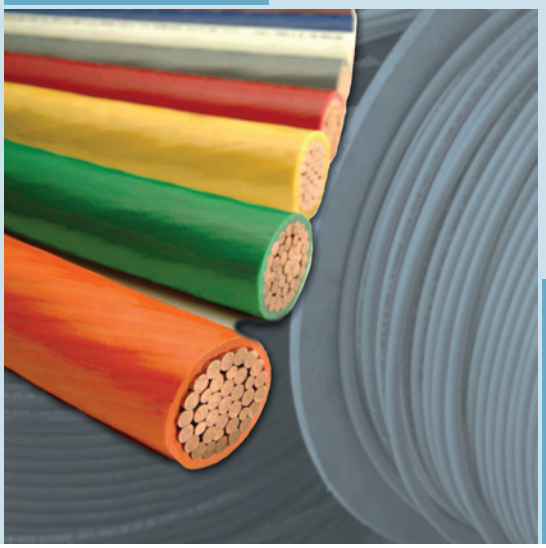
Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Ground Wire Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5S-0215	2	133	3	0.210	0.235	6	2.41	3,956	164
5S-0115	1	259	3	0.210	0.235	5	2.52	4,464	187
5S-1015	1/0	259	3	0.210	0.250	4	2.64	4,887	215
5S-2015	2/0	259	3	0.210	0.250	3	2.73	5,561	246
5S-3015	3/0	259	3	0.210	0.265	2	2.90	6,242	283
5S-4015	4/0	259	3	0.210	0.265	1	3.05	7,148	325

Conductor Color Code

Conductor Color Code

Number of Conductors	Cable Types	Color Identification
2	All	Black, White
3	G or G-GC Round or Flat	Black, White, Red
3	SHD-GC	Black, White, Red
3	W Round and Flat	Flat Black, White, Green
4	G Round	Black, White, Red, Orange
4	W Round	Black, White, Red, Green
5	W Round	Black, White, Red, Green, Orange
Ground Check Conductor	SHD-GC, GGC and MPF-GC	Yellow

12



Building Wire

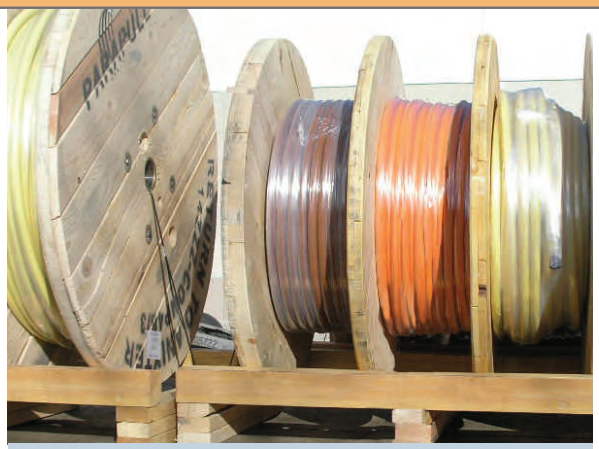
cerrowire

Nexans

Republic Wire Inc.

Southwire
WE DELIVER POWER...RESPONSIBLY

PARAPULL



PARAPULL is a customized, multicompartment wood paralleling reel that provides cost- and time-savings benefits.

Features

1. Accommodates multiple circuit lengths on one reel
2. Is a wooden construction
3. Is returnable
4. Includes metal arbor hole bushings

Benefits

1. Requires less effort to pull
   - Involves only one reel to find on the job site
   - Calls for less on-site storage requirements
2. Eliminates the need for a reel deposit (except WEMCO)
3. Removes the cost associated with disposing reels
4. Allows for easier and smoother cable pulling

PARAPULL Compartment Fill Lengths

THHN

Anixter Part No.	Maximum Length per Leg (75% Perfect Winding)					
	3 Compartment			4 Compartment		WEMCO 4 Compartment
	14ZZZ-COMP32/3 32" Dia. Flange	14ZZZ-COMP40/3 40" Dia. Flange	14ZZZ-COMP48/3 48" Dia. Flange	14ZZZ-COMP40/4 40" Dia. Flange	14ZZZ-COMP48/4 48" Dia. Flange	14RR-45-4-WEMCO 45" Dia. Flange
6G-0801	4,643	10,770	13,411	7,463	13,411	11,599
6G-0601	3,920	9,097	11,322	6,298	11,322	9,792
6G-0401	2,227	5,178	6,431	3,572	6,431	5,562
6G-0201	1,582	3,685	4,568	2,534	4,568	4,951
6G-0101	1,179	2,750	3,404	1,886	3,404	2,944
6G-1011	948	2,216	2,739	1,516	2,739	2,369
6G-2021	809	1,892	2,336	1,292	2,336	2,020
6G-3031	650	1,523	1,877	1,037	1,877	1,623
6G-4041	533	1,250	1,538	849	1,538	1,331
6G-2501	444	1,044	1,282	706	1,282	1,109
6G-3001	385	908	1,113	613	1,113	963
6G-3501	329	776	950	522	950	822
6G-4001	298	703	860	472	860	744
6G-5001	241	572	697	382	697	603
6G-6001	195	464	564	308	564	488
6G-7501	158	376	456	248	456	394

Continued on back >>

PARAPULL

XHHW

Anixter Part No.	Maximum Length per Leg (75% Perfect Winding)					
	3 Compartment			4 Compartment		WEMCO 4 Compartment
	14ZZZ-COMP32/3 32" Dia. Flange	14ZZZ-COMP40/3 40" Dia. Flange	14ZZZ-COMP48/3 48" Dia. Flange	14ZZZ-COMP40/4 40" Dia. Flange	14ZZZ-COMP48/4 48" Dia. Flange	14RR-45-4-WEMCO 45" Dia. Flange
6M-0801	4,259	9,881	12,301	6,844	13,886	10,639
6M-0601	3,113	7,230	8,991	4,999	10,155	7,776
6M-0401	2,371	5,513	6,848	3,804	7,739	5,923
6M-0201	1,668	3,885	4,818	2,673	5,450	4,167
6M-0101	1,234	2,880	3,565	1,976	4,037	3,084
6M-1011	1,032	2,410	2,980	1,650	3,376	2,577
6M-2021	874	2,045	2,526	1,398	2,863	2,185
6M-3031	697	1,633	2,014	1,113	2,285	1,742
6M-4041	587	1,377	1,695	936	1,925	1,466
6M-2501	471	1,107	1,360	750	1,547	1,176
6M-3001	407	959	1,177	648	1,339	1,018
6M-3501	356	838	1,027	565	1,170	888
6M-4001	313	759	904	496	1,030	781
6M-5001	258	612	746	409	852	646
6M-7501	203	483	588	321	672	508
6M-10001	127	305	368	200	423	318

Medium Voltage

Anixter Part No.	Maximum Length per Leg (75% Perfect Winding)					
	3 Compartment			4 Compartment		WEMCO 4 Compartment
	14ZZZ-COMP32/3 32" Dia. Flange	14ZZZ-COMP40/3 40" Dia. Flange	14ZZZ-COMP48/3 48" Dia. Flange	14ZZZ-COMP40/4 40" Dia. Flange	14ZZZ-COMP48/4 48" Dia. Flange	14RR-45-4-WEMCO 45" Dia. Flange
3DA-0601	550	1,291	1,588	876	1,804	1,374
3DA-0401	471	1,107	1,360	750	1,547	1,176
3DA-0201	396	933	1,144	630	1,303	990
3DA-0101	365	861	1,055	580	1,201	912
3DA-1011	338	796	975	536	1,111	843
3DA-2021	305	721	881	484	1,005	762
3DA-3031	253	598	730	400	833	631
3DA-4041	221	525	639	350	730	553
3DA-2501	199	473	576	315	658	498
3FE-0201	226	536	653	358	746	565
3FE-0101	212	503	613	335	700	530
3FE-1011	195	464	564	308	645	488
3FE-2021	180	429	521	284	596	450

TFN and TFFN

Fixture wire
Solid or stranded
PVC insulation
Nylon jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Stranded, annealed copper per ASTM B-3
2. INSULATION: Polyvinyl Chloride (PVC)
3. OVERALL JACKET: Nylon
4. STANDARDS: Meets requirements of UL 66 for Type TFN or TFFN fixture wire
5. AMPACITY: Based on Table 402.5 of the 2008 NEC
6. TEMPERATURE: 90°C
7. VOLTAGE: 600 V

APPLICATIONS

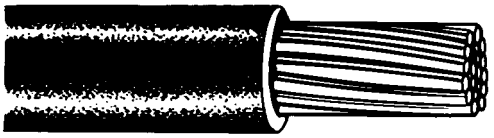
These wires are recommended in most types of industrial and commercial applications where resistance to mechanical abuse is required. The nylon jacket has excellent resistance to abrasion, chemicals, gas and oil.

Anixter No.	Type	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
6F-1801	TFN	18	Solid	0.015	0.004	0.084	9	6
6F-1601	TFN	16	Solid	0.015	0.004	0.094	12	8
6G-1801	TFFN	18	16	0.015	0.004	0.088	9	6
6G-1601	TFFN	16	26	0.015	0.004	0.101	13	8

Diameters and weights may vary among manufacturers.
All part numbers require color code designation.

PVC

THW



Solid or stranded
PVC insulation/jacket
75°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Solid or Class B stranded, annealed copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. STANDARDS: Listed Type THW per UL 83 requirements
4. AMPACITY: Based on not more than three conductors in raceway or cable or earth with an ambient temperature of 30°C and a conductor temperature of 75°C per 2008 NEC Table 310.16
5. TEMPERATURE: 75°C
6. VOLTAGE: 600 V

APPLICATIONS

General purpose wiring for lighting and power in residential, commercial and industrial buildings, in accordance with NEC maximum conductor temperature of 75°C in wet or dry locations, for circuits not exceeding 600 V.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
6C-1401	14	Solid	0.045	0.16	22	20
6C-1201	12	Solid	0.045	0.18	30	25
6C-1001	10	Solid	0.045	0.20	44	30
6D-1401	14	7	0.045	0.17	23	20
6D-1201	12	7	0.045	0.19	32	25
6D-1001	10	7	0.045	0.21	46	30
6D-0801	8	7	0.060	0.27	68	50
6D-0601	6	7	0.060	0.31	105	65
6D-0401	4	7	0.060	0.36	160	85
6D-0301	3	7	0.060	0.39	195	100
6D-0201	2	7	0.060	0.42	245	115
6D-0101	1	19	0.080	0.49	315	130
6D-1011	1/0	19	0.080	0.53	390	150
6D-2021	2/0	19	0.080	0.58	480	175
6D-3031	3/0	19	0.080	0.63	595	200
6D-4041	4/0	19	0.080	0.69	753	230
6D-2501	250	37	0.095	0.77	880	255
6D-3001	300	37	0.095	0.82	1,040	285
6D-3501	350	37	0.095	0.87	1,205	310
6D-4001	400	37	0.095	0.92	1,365	335
6D-5001	500	37	0.095	1.01	1,685	380
6D-6001	600	61	0.110	1.12	2,030	420
6D-7501	750	61	0.110	1.22	2,510	475
6D-10001	1000	61	0.110	1.38	3,305	545

Unless otherwise specifically permitted in the NEC, the overcurrent protection shall not exceed 15 A for 14 AWG, 20 A for 12 AWG and 30 A for 10 AWG copper.
Diameters and weights may vary amng manufacturers.
All part numbers require color code designation.

PVC

THHN/THWN-2

Solid or stranded
PVC insulation
Nylon jacket
90°C dry (THHN)
90°C wet (THWN-2, 8 AWG and larger)
75°C wet (THWN)
600 V

SPECIFICATIONS

1. CONDUCTOR: Solid or stranded annealed copper per applicable ASTM standard
2. INSULATION: Polyvinyl Chloride (PVC) sheathed with nylon meeting the requirements of the applicable UL standard
3. STANDARDS: UL 83 Thermoplastic Wire and Cable, UL 1063 MTW, UL 758 AWM, Federal Specification A-A-59544. Sizes 1/0 and larger are marked "for CT use". Cable is sunlight-resistant in 1/0 and larger (black only)
4. AMPACITY: Based on not more than three conductors in raceway or cable or earth with an ambient temperature of 30°C per 2008 NEC Table 310.16
5. TEMPERATURE: THHN 90°C dry, THWN-2 90°C wet/dry, THWN 75°C wet, MTW 90°C dry, 60°C wet/oil, AWM 105°C dry
6. VOLTAGE: 600 V

APPLICATIONS

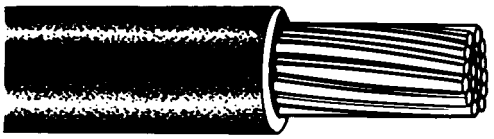
General purpose wiring for new construction or modernizing existing systems. Suitable for lighting and power in residential, commercial and industrial buildings. Also recommended for power control circuits, machine tools, appliances and relay panels. The overall nylon jacket is abrasion resistant with slippery surface, for easy pulling in conduits. Highly resistant to acids, alkalis, chemicals, oil, gasoline, grease and flame.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Ampacity 90°C THHN	Ampacity 75°C THHN
6F-1401	14	Solid	0.015	0.004	0.11	16	25	20
6F-1201	12	Solid	0.015	0.004	0.13	24	30	25
6F-1001	10	Solid	0.020	0.004	0.16	38	40	35
6G-1401	14	19	0.015	0.004	0.12	16	25	20
6G-1201	12	19	0.015	0.004	0.14	25	30	25
6G-1001	10	19	0.020	0.004	0.17	39	40	35
6G-0801	8	19	0.030	0.005	0.23	66	55	50
6G-0601	6	19	0.030	0.005	0.25	98	75	65
6G-0401	4	19	0.040	0.006	0.33	115	95	85
6G-0301	3	19	0.040	0.006	0.36	190	110	100
6G-0201	2	19	0.040	0.006	0.39	235	130	115
6G-0101	1	19	0.050	0.007	0.45	300	150	130
6G-1011	1/0	19	0.050	0.007	0.50	370	170	150
6G-2021	2/0	19	0.050	0.007	0.54	460	195	175
6G-3031	3/0	19	0.050	0.007	0.60	570	225	200
6G-4041	4/0	19	0.050	0.007	0.66	710	260	230
6G-2501	250	37	0.060	0.008	0.72	845	290	255
6G-3001	300	37	0.060	0.008	0.77	1,020	320	285
6G-3501	350	37	0.060	0.008	0.83	1,165	350	310
6G-4001	400	37	0.060	0.008	0.87	1,325	380	335
6G-5001	500	37	0.060	0.008	0.96	1,640	430	380
6G-6001	600	61	0.070	0.009	1.06	2,005	475	420
6G-7501	750	61	0.070	0.009	1.17	2,480	535	475
6G-10001	1000	61	0.070	0.009	1.32	3,300	615	545

Unless otherwise specifically permitted in the NEC, the overcurrent protection shall not exceed 15 A for 14 AWG, 20 A for 12 AWG and 30 A for 10 AWG copper.
Diameters, weights and additional listings may vary among manufacturers.
All part numbers require color code designation.

PVC

TW



Solid or stranded
PVC insulation/jacket
60°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Solid or Class B stranded, annealed copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. STANDARDS: Listed Type TW per UL 83 requirements
4. AMPACITY: Based on not more than three conductors in raceway or cable or earth with an ambient temperature of 30°C and a conductor temperature of 60°C per 2008 NEC Table 310.16
5. TEMPERATURE: 60°C
6. VOLTAGE: 600 V

APPLICATIONS

General purpose wiring for lighting and power in residential, commercial and industrial buildings, in accordance with NEC maximum conductor temperature of 60°C in wet or dry locations, for circuits not exceeding 600 V.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
6A-1401	14	Solid	0.030	0.13	19	20
6A-1201	12	Solid	0.030	0.15	26	25
6A-1001	10	Solid	0.030	0.17	39	30
6B-1401	14	7	0.030	0.14	19	20
6B-1201	12	7	0.030	0.16	28	25
6B-1001	10	7	0.030	0.18	41	30
6B-0801	8	7	0.045	0.24	67	40

Unless otherwise specifically permitted in the NEC, the overcurrent protection shall not exceed 15 A for 14 AWG, 20 A for 12 AWG and 30 A for 10 AWG copper.
Diameters and weights may vary among manufacturers.
All part numbers require color code designation.

XLP/USE

RHH or RHW-2, USE-2 XLP

XLP insulation/jacket
90°C wet/dry

SPECIFICATIONS

1. CONDUCTOR: Bare copper Class B stranding per ASTM B-8
2. INSULATION: Cross-Linked Polyethylene (XLP)
3. STANDARDS: Cable is listed as Type USE-2 per UL 854 and RHH/RHW-2 per UL 44, meets requirements of ICEA S-95-658 (NEMA WC70)
4. AMPACITY: Based on not more than three conductors in raceway or cable or earth per 2008 NEC Table 310.16 with an ambient temperature of 30°C
5. TEMPERATURE: 90°C
6. VOLTAGE: 600 V

APPLICATIONS

General purpose wiring for control, switchboard, lighting and power circuits in residential and commercial buildings, industrial plants and for utility substations, meters and generating plants.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3B-1401	14	7	0.045	0.170	25	25
3B-1201	12	7	0.045	0.188	31	30
3B-1001	10	7	0.045	0.212	45	40
3B-0801	8	7	0.060	0.273	72	55
3B-0601	6	7	0.060	0.311	107	75
3B-0401	4	7	0.060	0.359	161	95
3B-0201	2	7	0.060	0.419	244	130
3B-0101	1	19	0.080	0.491	312	150
3B-1011	1/0	19	0.080	0.532	386	170
3B-2021	2/0	19	0.080	0.578	478	195
3B-3031	3/0	19	0.080	0.629	594	225
3B-4041	4/0	19	0.080	0.687	739	260
3B-2501	250	37	0.095	0.769	882	290
3B-3501	350	37	0.095	0.875	1,212	350
3B-5001	500	37	0.095	1.007	1,702	430
3B-7501	750	61	0.110	1.250	2,603	535
3B-10001	1000	61	0.110	1.410	2,880	615

14 AWG is not rated as Type USE-2.
Diameters and weights may vary among manufacturers.
All part numbers require color code designation.
CT rated material available in sizes 1/0 and larger.

XLP/USE

SIS

XLP insulation/jacket
90°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Tinned, annealed, stranded copper. A separator tape may be applied over the conductor
2. INSULATION: Cross-Linked Polyethylene (XLP)
3. STANDARDS: Listed Type SIS switchboard wire per UL 44 requirements (14 AWG and larger only)
4. TEMPERATURE: 90°C
5. VOLTAGE: 600 V

APPLICATIONS

For use in wiring switchboards and control apparatus. Resists heat, moisture, flame, oil and corrosive vapors.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
6KL-1801S	18	7	0.030	0.113	10
6KL-1601S	16	7	0.030	0.125	14
6KL-1401S	14	7	0.030	0.140	19
6KL-1201S	12	7	0.030	0.159	28
6KL-1001S	10	7	0.030	0.183	41
6KL-0801S	8	7	0.045	0.243	69
6KL-0601S	6	7	0.060	0.313	112
6KL-0401S	4	7	0.060	0.361	166
6KL-1801F	18	16	0.030	0.112	10
6KL-1601F	16	26	0.030	0.125	14
6KL-1401F	14	41	0.030	0.140	20
6KL-1201F	12	65	0.030	0.155	30
6KL-1001F	10	104	0.030	0.180	41
6KL-0801F	8	133	0.045	0.260	75
6KL-0601F	6	133	0.060	0.340	130
6KL-0401F	4	133	0.060	0.390	185

VW-1 rating available. Use Suffix V (e.g. 6KL-1401FV-09).
Diameters and weights may vary among manufacturers.
All part numbers require color code designation.

XLP/USE

XHHW-2

Solid or stranded
XLP insulation/jacket
90°C wet/dry
600 V

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed, bare copper
2. INSULATION: Cross-Linked Polyethylene (XLP)
3. STANDARDS: Listed Type XHHW-2 per UL 44 Thermoset-Insulated Wires and Cables, meets construction requirements of ICEA S-95-658 (NEMA WC 70), conforms to Federal Specification A-A-59544
4. AMPACITY: Based on not more than three conductors in raceway or cable or earth with an ambient temperature of 30°C per 2008 NEC Table 310.16
5. TEMPERATURE: 90°C
6. VOLTAGE: 600 V

APPLICATIONS

General purpose wiring for control, switchboard, lighting and power circuits in residential and commercial buildings and industrial plants, and for utility substations, meters and generating plants.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
6L-1401	14	Solid	0.030	0.13	17	25
6L-1201	12	Solid	0.030	0.15	26	30
6L-1001	10	Solid	0.030	0.17	38	40
6M-1401	14	7	0.030	0.14	18	25
6M-1201	12	7	0.030	0.16	27	30
6M-1001	10	7	0.030	0.18	40	40
6M-0801	8	7	0.045	0.24	66	55
6M-0601	6	7	0.045	0.28	96	75
6M-0401	4	7	0.045	0.32	145	95
6M-0201	2	7	0.045	0.38	225	130
6M-0101	1	7	0.055	0.44	290	150
6M-1011	1/0	19	0.055	0.48	360	170
6M-2021	2/0	19	0.055	0.52	450	195
6M-3031	3/0	19	0.055	0.58	555	225
6M-4041	4/0	19	0.055	0.63	700	260
6M-2501	250	37	0.065	0.70	830	290
6M-3001	300	37	0.065	0.75	990	320
6M-3501	350	37	0.065	0.80	1,150	350
6M-4001	400	37	0.065	0.85	1,310	380
6M-5001	500	37	0.065	0.93	1,620	430
6M-7501	750	61	0.080	1.04	2,445	535
6M-10001	1000	61	0.080	1.29	3,240	615

Unless otherwise specifically permitted in the NEC, the overcurrent protection shall not exceed 15 A for 14 AWG, 20 A for 12 AWG and 30 A for 10 AWG copper.
Diameters and weights may vary among manufacturers.
All part numbers require color code designation.
CT rated material available in sizes 1/0 and larger.

Type MC

Type MC Cable Copper

Type MC
Copper conductor
Aluminum armor
XLP insulation
90°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Solid and Class B or C stranded, annealed copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. EQUIPMENT GROUNDING CONDUCTOR:
   6MCC sizes < =2 AWG: insulated green copper ground conductor
   6MCC sizes >2 AWG: bare copper ground conductor
   6MCAP: bare aluminum grounding conductor
4. ARMOR: Lightweight aluminum interlocked
5. STANDARDS: Conductors listed Type THHN per UL 83 for 6MCAP part numbers and Type THHN/THWN for 6MCC. Cable listed Type MC per UL 1569 and meets Federal Specification A-A59544 requirements and passes IEEE 1202/FT4 70,000 Btu/hr flame test. 6MCC part numbers pass UL 1685 70,000 Btu/hr vertical tray flame test
6. AMPACITY: Based on table 310.16 of the 2008 NEC
7. TEMPERATURE: 90°C
8. VOLTAGE: 600 V

APPLICATIONS

Branch, feeder and service power distribution in commercial, industrial, institutional and multi-residential buildings. Power, lighting, control and signal circuits.

MC COPPER FEEDER STRANDED

Anixter No.	Conductor Size AWG	No. of Conductors	Ground Wire Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Ampacity 75°C THHN
6MCC-0802	8	2	10	0.644	234	50
6MCC-0803	8	3	10	0.678	298	50
6MCC-0804	8	4	10	0.732	370	50
6MCC-0602	6	2	8	0.716	333	65
6MCC-0603	6	3	8	0.819	441	65
6MCC-0604	6	4	8	0.89	540	65
6MCC-0403	4	3	8	0.986	635	85
6MCC-0404	4	4	8	1.075	805	85
6MCC-0304	3	4	6	1.152	988	100
6MCC-0203	2	3	6	1.13	933	115
6MCC-0204	2	4	6	1.239	1,182	115
6MCC-1013	1/0	3	6	1.245	1,344	150
6MCC-1014	1/0	4	6	1.362	1,733	150
6MCC-2023	2/0	3	6	1.339	1,630	175
6MCC-2024	2/0	4	6	1.491	2,180	175
6MCC-3033	3/0	3	4	1.449	2,037	200
6MCC-3034	3/0	4	4	1.614	2,709	200
6MCC-4043	4/0	3	4	1.57	2,555	230
6MCC-4044	4/0	4	4	1.749	3,307	230
6MCC-2503	250	3	4	1.737	2,980	255
6MCC-2504	250	4	4	1.913	3,868	255
6MCC-3503	350	3	3	1.96	4,029	310
6MCC-3504	350	4	3	2.162	5,247	310
6MCC-5003	500	3	2	2.238	5,576	380
6MCC-5004	500	4	2	2.477	7,289	380
6MCC-7503	750	3	1	2.674	8,158	475
6MCC-7504	750	4	1	2.96	10,692	475

Type MC

MC COPPER CIRCUIT SOLID

Anixter No.	Conductor Size AWG	No. of Conductors	Ground Wire Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Ampacity 75°C THHN
6MCC-1403-120-M	14	3	14	0.410	94	15
6MCC-1404-120-M	14	4	14	0.435	175	15
6MCC-1202-120-M	12	2	12	0.475	105	20
6MCC-1203-120-M	12	3	12	0.525	137	20
6MCC-1204-120-M	12	4	12	0.538	154	20
6MCC-1002-120-M	10	2	10	0.542	150	30
6MCC-1003-120-M	10	3	10	0.580	189	30
6MCC-1004-120-M	10	4	10	0.621	230	30

Note: All sizes and voltages available from stock including hospital grade.

MCAP COPPER CIRCUIT

Anixter No.	Conductor Size AWG	No. of Conductors	Ground Wire Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Ampacity 75°C THHN
6MCAP-1402-120-M	14	2	12	0.385	63	15
6MCAP-1403-120-M	14	3	12	0.410	78	15
6MCAP-1404-120-M	14	4	12	0.435	96	15
6MCAP-1202-120-M	12	2	10	0.430	86	20
6MCAP-1203-120-M	12	3	10	0.445	111	20
6MCAP-1204-120-M	12	4	10	0.480	137	20
6MCAP-1003-120-M	10	3	8	0.520	162	30
6MCAP-1004-120-M	10	4	8	0.565	202	30

Type MC

Type MC Aluminum

Type MC
Aluminum conductor
XLP insulation
Aluminum interlocked armor
90°C wet/dry, 600 V

SPECIFICATIONS

1. CONDUCTOR: AA-8176 Aluminum Alloy
2. INSULATION: Cross-Linked Polyethylene (XLP) meeting the physical and electrical requirements of UL 44 for Type XHHW-2 wire
3. EQUIPMENT GROUNDING CONDUCTOR: A combined interlocked armor and full-sized bare aluminum equipment grounding/bonding conductor is included in the cable assembly
4. ARMOR: Lightweight aluminum interlocked
5. STANDARDS: Conductors listed Type XHHW-2 per UL 44 requirements and conform to ICEA S-66-524 (NEMA WC7). Cable listed Type MC per UL 1569 requirements and conforms to Federal Specification A-A59544
6. AMPACITY: Based on Table 310.16 of the 2008 NEC
7. TEMPERATURE: 90°C wet/dry
8. VOLTAGE: 600 V

APPLICATIONS

Feeder and service power distribution in commercial, industrial, institutional and multi-residential buildings. Power, lighting, control and signal circuits. Can be used in air-handling spaces in accordance with 300.22 of the 2008 NEC.

TYPE MC ALUMINUM FEEDER

Anixter No.	Conductor Size AWG	No. of Conductors	Ground Wire Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor 75°C
6MCA-0603	6	3	6	0.784	240	50
6MCA-0604	6	4	6	0.851	289	50
6MCA-0403	4	3	6	0.879	298	65
6MCA-0404	4	4	6	0.957	368	65
6MCA-0203	2	3	4	0.998	411	90
6MCA-0204	2	4	4	1.089	508	90
6MCA-0103	1	3	4	1.108	496	100
6MCA-0104	1	4	4	1.213	619	100
6MCA-1013	1/0	3	4	1.188	578	120
6MCA-1014	1/0	4	4	1.302	727	120
6MCA-2023	2/0	3	4	1.274	678	135
6MCA-2024	2/0	4	4	1.398	858	135
6MCA-3033	3/0	3	4	1.376	803	155
6MCA-3034	3/0	4	4	1.532	1,092	155
6MCA-4043	4/0	3	2	1.508	1,049	180
6MCA-4044	4/0	4	2	1.657	1,323	180
6MCA-2503	250	3	2	1.648	1,223	205
6MCA-2504	250	4	1	1.814	1,566	205
6MCA-3503	350	3	1	1.856	1,592	250
6MCA-3504	350	4	1/0	2.046	2,050	250
6MCA-5003	500	3	1	2.115	2,106	310
6MCA-5004	500	4	3/0	2.336	2,752	310
6MCA-7503	750	3	1/0	2.551	3,043	385
6MCA-7504	750	4	3/0	2.823	3,990	385

SpeedPull Construction

SpeedPull Construction

SPECIFICATIONS:

1. Standard sizes in stock or custom assembled to meet your requirements
2. CONDUCTOR TYPES: Building wire, coax, fire alarm, security wire, fiber optic cable, plenum cable, etc.
3. CONDUCTOR SIZE: #8 to #18 AWG
4. ASSEMBLIES: Up to 3 1/2 in. overall diameter cable assemblies, any combination of conductors for composite constructions, round configuration provided, up to 300 conductors, depending on AWG sizes
5. SUBASSEMBLIES: Conductors can be subassembled with a color-identifying binder, then assembled into one cable
6. IDENTIFICATION: Color-coded or number printed conductors available

STANDARD SIZES

STOCK SIZES	RED
10 Conductor	14 AWG THHN Red #1-10
15 Conductor	14 AWG THHN Red #1-15
20 Conductor	14 AWG THHN Red #1-20
25 Conductor	14 AWG THHN Red #1-25
30 Conductor	14 AWG THHN Red #1-30
40 Conductor	14 AWG THHN Red #1-40
50 Conductor	14 AWG THHN Red #1-50
100 Conductor	14 AWG THHN Red #1-100

CUSTOM EXAMPLE:

447 feet long - 37 conductor composite cable consisting of:
15x14 AWG THHN conductors
10x14 AWG THW conductors
5x12 AWG THHN conductors
7x16 AWG TFFN conductors

Special conductor identification available.
Samples available.

APPLICATIONS

Our SpeedPull service bundles together several types of cable in one assembly for easy and trouble-free installation in duct, conduit or other recognized raceway. This type of construction can greatly reduce the number of "pulls" necessary in an installation.

Cathodic Protection (CP)

CP Cable

High Molecular Weight Polyethylene (HMW-PE) insulation/jacket

SPECIFICATIONS

1. CONDUCTOR: Bare, soft drawn copper, Class B stranding per ASTM B-8
2. INSULATION: High Molecular Weight Polyethylene

APPLICATIONS

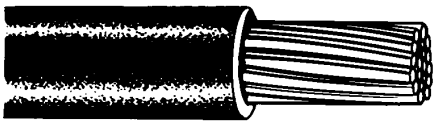
For use in cathodic protection systems for pipelines, storage tanks, pilings, well casings, cables, marine structures and other buried or submerged metallic structures in water. Excellent flexibility at low temperatures and highly resistant to moisture, corrosive chemicals, salt and abrasion.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
6CP-0801	8	7	0.110	0.36	90
6CP-0601	6	7	0.110	0.41	125
6CP-0401	4	7	0.110	0.46	180
6CP-0201	2	7	0.110	0.52	335
6CP-0101	1	19	0.125	0.58	370
6CP-1011	1/0	19	0.125	0.62	410
6CP-2021	2/0	19	0.125	0.67	505
6CP-3031	3/0	19	0.125	0.72	620
6CP-4041	4/0	19	0.125	0.77	750
6CP-2501	250	37	0.155	0.89	925
6CP-3501	350	37	0.155	0.99	1,260

Diameters and weights may vary among manufacturers.
All part numbers require color code designation.

Copper Grounding Cable

PVC insulation



SPECIFICATIONS

1. CONDUCTOR: Class K stranded, bare copper, extra-fine strands allow for greater flexibility and handling ease
2. INSULATION: Clear Polyvinyl Chloride (PVC)

APPLICATIONS

Used in applications for grounding of equipment and structures. This cable can also be used in hazardous locations such as refineries, fuel storage areas and chemical plants.

Anixter No.	Conductor Size AWG/kcmil	No. of 30 AWG Strands	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
5GC-0201	2	665	0.100	0.530	300
5GC-1011	1/0	1,045	0.100	0.580	465
5GC-2021	2/0	1,330	0.100	0.650	565
5GC-4041	4/0	2,109	0.100	0.780	865

Diameters and weights may vary among manufacturers. #6 AWG solid copper and yellow TPE insulation also available.
All part numbers require color code designation.

MTW

MTW

PVC
Stranded conductor
UL AWM and MTW
CSA TEW
600 V

SPECIFICATIONS

1. CONDUCTOR: Bare or tinned copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. STANDARDS: Complies with CSA Type TEW, UL AWM and UL Type MTW for general appliance use as machine tool wire, meets VW-1 fire rating in sizes 22 through 4/0
4. TEMPERATURE: UL Type AWM 105°C, CSA Type TEW 105°C, and UL Type MTW 90°C
5. VOLTAGE: 600 V

APPLICATIONS

Internal wiring of appliances. As machine tool wire, Type MTW.

Anixter No.	Conductor Size AWG	No. of Strands	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
6W-2207	22	7/30	0.030	0.093	5.8
6W-2010	20	10/30	0.030	0.098	7.0
6W-1816	18	16/30	0.030	0.108	9.6
6W-1819	18	19/30	0.030	0.108	10.7
6W-1619	16	19/29	0.030	0.113	13.4
6W-1626	16	26/30	0.030	0.121	13.6
6W-1419	14	19	0.030	0.129	18.9
6W-1441	14	41/30	0.030	0.139	18.7
6W-1219	12	19	0.030	0.155	27.7
6W-1265	12	65/30	0.030	0.148	27.7
6W-1019	10	19	0.030	0.179	41.2
6W-0819	8	19	0.045	0.240	67.6
6W-08133	8	133/29	0.045	0.262	72.7
6W-0619	6	19	0.060	0.309	111.5
6W-06133	6	133/27	0.060	0.334	115.0
6W-0419	4	19	0.060	0.358	166.2
6W-04133	4	133/25	0.060	0.390	173.0
6W-0219	2	19	0.060	0.419	250.1
6W-02133	2	133/23	0.060	0.459	260.0
6W-0119	1	19	0.080	0.496	326.5
6W-01133	1	133/22	0.080	0.499	338.0
6W-10119	1/0	19	0.080	0.536	401.6
6W-20219	2/0	19	0.080	0.582	496.0
6W-30319	3/0	19	0.080	0.634	620.0
6W-40419	4/0	19	0.080	0.692	760.0
6W-25037	250	37	0.095	0.770	889.9
6W-30037	300	37	0.095	0.824	1,040.0
6W-35037	350	37	0.095	0.875	1,240.3
6W-50037	500	37	0.095	1.015	1,736.2

Diameters and weights may vary among manufacturers.
All part numbers require color code designation.
For alternates in sizes smaller than 8 AWG, see part number prefix 1015BC-.

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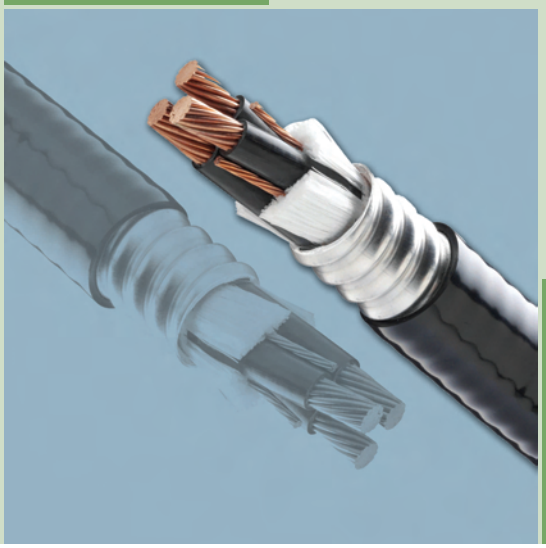


Armored Cable

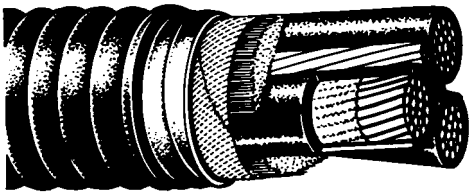
General Cable

Nexans

Southwire
WE DELIVER POWER...RESPONSIBLY

Interlocked Armor

600 V Multiconductor



Aluminum interlocked armor
XLP insulation
90°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, annealed copper per ASTM B3 and B8
2. INSULATION: Cross-Linked Polyethylene (XLP) Type XHHW-2. Color coding is Method 1, Table E-2 (formerly K-2)
3. ASSEMBLY: The insulated conductors and a single uninsulated, bare copper ground wire are cabled with fillers to make round
4. ARMOR: Aluminum interlocked armor
5. OVERALL JACKET: Black, sunlight-resistant Polyvinyl Chloride (PVC)
6. STANDARDS: Cables meet the UL 1685 and IEEE 1202 70,000 Btu/hr vertical tray flame tests and are marked "for CT use". Individual conductors listed Type XHHW-2 per UL 44 and cable is listed Type MC per UL 1569 requirements
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth based on an ambient temperature of 30°C per 2008 NEC table 310.16. All multiconductor values have been derated per 2008 NEC Table 310.15(B)(2)(a)
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

For use in control circuits in industrial plants, commercial buildings, and central and substation utility applications. May be installed in trays, racks, hangers, etc., eliminating the need for conduit. Suitable for indoor and outdoor installation.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Ground Wire Size AWG	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
7A-1402A	14	7	2	0.030	14	0.050	0.56	160	25
7A-1403A	14	7	3	0.030	14	0.050	0.58	185	25
7A-1404A	14	7	4	0.030	14	0.050	0.64	220	20
7A-1405A	14	7	5	0.030	14	0.050	0.66	245	20
7A-1407A	14	7	7	0.030	14	0.050	0.70	295	17.5
7A-1409A	14	7	9	0.030	14	0.050	0.78	360	17.5
7A-1412A	14	7	12	0.030	14	0.050	0.87	430	12.5
7A-1415A	14	7	15	0.030	14	0.050	0.95	515	12.5
7A-1419A	14	7	19	0.030	14	0.050	1.00	590	12.5
7A-1425A	14	7	25	0.030	14	0.050	1.14	750	11.3
7A-1437A	14	7	37	0.030	14	0.050	1.27	1,110	10
7A-1202A	12	7	2	0.030	12	0.050	0.61	205	30
7A-1203A	12	7	3	0.030	12	0.050	0.63	230	30
7A-1204A	12	7	4	0.030	12	0.050	0.67	275	24
7A-1205A	12	7	5	0.030	12	0.050	0.73	315	24
7A-1207A	12	7	7	0.030	12	0.050	0.78	375	21
7A-1209A	12	7	9	0.030	12	0.050	0.87	460	21
7A-1212A	12	7	12	0.030	12	0.050	0.96	570	15
7A-1215A	12	7	15	0.030	12	0.050	1.05	670	15
7A-1219A	12	7	19	0.030	12	0.050	1.10	790	15
7A-1224A	12	7	24	0.030	12	0.050	1.26	1,035	13.5
7A-1237A	12	7	37	0.030	12	0.050	1.41	1,395	12
7A-1002A	10	7	2	0.030	10	0.050	0.67	260	40
7A-1003A	10	7	3	0.030	10	0.050	0.68	300	40
7A-1004A	10	7	4	0.030	10	0.050	0.75	355	32
7A-1005A	10	7	5	0.030	10	0.050	0.80	410	32

Unless otherwise specifically permitted in the NEC, the overcurrent protection shall not exceed 15 A for 14 AWG, 10 A for 12 AWG, 30 A for 10 AWG copper.
Note: Galvanized steel interlocked armor available upon request. Use suffix "S" instead of "A."
Diameters and weights may vary among manufacturers.

Continued on next page >>

Interlocked Armor

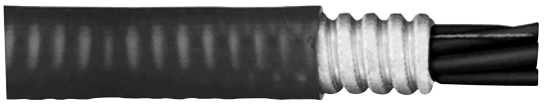
(continued) 600 V Multiconductor

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Ground Wire Size AWG	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
7A-1007A	10	7	7	0.030	10	0.050	0.85	500	28
7A-1009A	10	7	9	0.030	10	0.050	0.96	620	28
7A-1012A	10	7	12	0.030	10	0.050	1.07	770	20
7A-1015A	10	7	15	0.030	10	0.050	1.17	920	20
7A-1019A	10	7	19	0.030	10	0.050	1.22	1,095	20
7A-1024A	10	7	24	0.030	10	0.050	1.40	1,390	18
7A-1037A	10	7	37	0.030	10	0.050	1.58	1,935	16

Unless otherwise specifically permitted in the NEC, the overcurrent protection shall not exceed 15 A for 14 AWG, 10 A for 12 AWG, 30 A for 10 AWG copper.
Note: Galvanized steel interlocked armor available upon request. Use suffix "S" instead of "A."
Diameters and weights may vary among manufacturers.

600 V Three Conductor

Aluminum interlocked armor
XLP insulation
90°C, 600 V



SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, annealed copper per ASTM B3 and B8
2. INSULATION: Cross-Linked Polyethylene (XLP), Type XHHW-2, identified by numbering
3. ASSEMBLY: The insulated conductors and a single ground wire are cabled with fillers to make round
4. ARMOR: Aluminum interlocked armor
5. OVERALL JACKET: Black, sunlight-resistant Polyvinyl Chloride (PVC)
6. STANDARDS: Cables meet the UL 1685 and IEEE 1202 70,000 Btu/hr Vertical Tray Flame Tests and are marked "for CT use", individual conductors listed Type XHHW-2 per UL 44 and completed cable listed Type MC per UL 1569
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth based on an ambient temperature of 30°C per NEC table 310.16
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

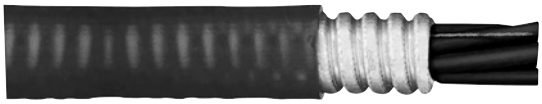
For use in power circuits in industrial plants, commercial buildings, and central and substation utility applications. May be installed in trays, racks, hangers, etc., eliminating the need for conduit. Suitable for indoor and outdoor installation.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Ground Wire Size AWG	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
7A-0803A	8	7	0.045	10	0.050	0.80	410	55
7A-0603A	6	7	0.045	8	0.050	0.88	550	75
7A-0403A	4	7	0.045	8	0.050	0.99	740	95
7A-0203A	2	7	0.045	6	0.050	1.12	1,075	130
7A-0103A	1	19	0.055	6	0.050	1.27	1,380	150
7A-1013A	1/0	19	0.055	6	0.050	1.34	1,555	170
7A-2023A	2/0	19	0.055	6	0.050	1.43	1,850	195
7A-3033A	3/0	19	0.055	4	0.050	1.57	2,350	225
7A-4043A	4/0	19	0.055	4	0.060	1.68	2,820	260
7A-2503A	250	37	0.065	4	0.060	1.86	3,310	290
7A-3503A	350	37	0.065	3	0.060	2.10	4,475	350
7A-5003A	500	37	0.065	2	0.060	2.36	6,075	430
7A-7503A	750	61	0.080	1	0.075	2.92	8,960	535
7A-10003A	1000	61	0.080	1/0	0.085	3.25	11,500	615

Note: Galvanized steel interlocked armor available upon request. Use suffix "S" instead of "A."
Constructions with oversize ground wires are available upon request: use suffix "A-OG" instead of "A."
Oversize ground wire available for paralleling application. Special rules may apply when paralleling these cables. Contact us for application assistance.
Diameters and weights may vary among manufacturers.

Interlocked Armor

600 V Four Conductor



Aluminum interlocked armor
XLP insulation
90°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, annealed copper per ASTM B3 and B8
2. INSULATION: Cross-Linked Polyethylene (XLP) Type XHHW-2, conductors are identified by numbering
3. ASSEMBLY: The insulated conductors and uninsulated, bare copper ground wire(s) are cabled with fillers to make round
4. ARMOR: Aluminum interlocked armor
5. OVERALL JACKET: Black, sunlight-resistant Polyvinyl Chloride (PVC)
6. STANDARDS: Cables meet the UL 1685 and IEEE 1202 70,000 Btu/hr vertical tray flame tests and are marked "for CT use", individual conductors listed Type XHHW-2 per UL 44, completed cable listed Type MC per UL 1569
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth at an ambient temperature of 30°C per 2008 NEC table 310.16. All multiconductor values have been derated per 2008 NEC Table 310.15(B)(2)(a)
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

For use in power circuits in industrial plants, commercial buildings, and central and substation utility applications. May be installed in trays, racks, hangers, etc., eliminating the need for conduit. Suitable for indoor and outdoor installation.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Ground Wire Size AWG	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
7A-0804A	8	7	0.045	10	0.050	0.86	505	44
7A-0604A	6	7	0.045	8	0.050	0.95	685	60
7A-0404A	4	7	0.045	8	0.050	1.07	925	76
7A-0204A	2	7	0.045	6	0.050	1.22	1,290	104
7A-0104A	1	19	0.045	6	0.050	1.36	1,605	120
7A-1014A	1/0	19	0.055	6	0.050	1.46	1,935	136
7A-2024A	2/0	19	0.055	6	0.050	1.56	2,355	156
7A-3034A	3/0	19	0.055	4	0.060	1.71	2,935	180
7A-4044A	4/0	19	0.055	4	0.060	1.88	3,640	208
7A-2504A	250	37	0.065	7	0.060	2.04	4,210	232
7A-3504A	350	37	0.065	3	0.060	2.30	5,710	280
7A-5004A	500	37	0.065	2	0.075	2.63	7,910	344
7A-7504A	750	61	0.080	1	0.085	3.22	11,480	428

Note: Galvanized steel interlocked armor available upon request. Use suffix "S" instead of "A."
Oversize ground wire available for paralleling application. Special rules may apply when paralleling these cables. Contact us for application assistance.
Diameters and weights may vary among manufacturers.

Interlocked Armor

2,400 V Three Conductor Nonshielded

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, annealed copper per ASTM B3, strand shield is an extruded semiconducting material
2. INSULATION: Ethylene Propylene Rubber (EPR), insulated phase conductors are numbered
3. ASSEMBLY: The three-phase conductors are cabled with a Class B stranded, uninsulated ground wire and fillers to make round, a binder tape is applied overall
4. ARMOR: Aluminum interlocked armor
5. OVERALL JACKET: Yellow, extruded, sunlight-resistant Polyvinyl Chloride (PVC)
6. STANDARDS: UL Listed Type MV-90 per UL 1072 and Type MC per UL 1569, cable meets requirements of ICEA S-96-659 (NEMA WC 71). Cables are listed "for CT use" and meet the IEEE1202 (70,000 Btu/hr) and ICEA T-29-520 (210,000 Btu/hr) flame tests
7. AMPACITY: Based on a three-conductor cable isolated in air with a conductor temperature of 90°C and an ambient temperature of 40°C per 2008 NEC table 310.71
8. TEMPERATURE: 90°C
9. VOLTAGE: 2,400 V

APPLICATIONS

For use in power circuits in industrial plants, commercial buildings, and central and substation utility applications. May be installed in trays, racks, hangers, etc., eliminating the need for conduit. Suitable for indoor and outdoor installation.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Ground Wire Size AWG	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
7B-0603A	6	7	0.115	6	0.050	1.30	905	79
7B-0403A	4	7	0.115	6	0.050	1.40	1,115	105
7B-0203A	2	7	0.115	6	0.050	1.53	1,430	140
7B-0103A	1	19	0.115	4	0.050	1.61	1,770	160
7B-1013A	1/0	19	0.115	4	0.060	1.72	2,025	185
7B-2023A	2/0	19	0.115	4	0.060	1.85	2,390	215
7B-4043A	4/0	19	0.115	3	0.060	2.08	3,395	285
7B-2503A	250	37	0.115	3	0.060	2.20	3,900	320
7B-3503A	350	37	0.115	2	0.060	2.46	5,105	395
7B-5003A	500	37	0.115	1	0.075	2.73	6,800	485
7B-7503A	750	61	0.115	1/0	0.075	3.14	9,400	615
7B-10003A	1000	61	0.115	1/0	0.085	3.51	12,870	705

Note: 0.090 in. insulation thickness or galvanized steel interlocked armor available upon request.
Diameters and weights may vary among manufacturers.

Interlocked Armor

5 kV Three Conductor Shielded

Aluminum interlocked armor
EPR insulation
133% insulation level

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, annealed copper per ASTM B3, strand shield is an extruded semiconducting material
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-93-639 (NEMA WC74)
3. SHIELDING: An extruded semiconducting thermosetting insulation shield is applied over the insulation, an uncoated copper tape is helically applied overall per ICEA S-93-639
4. ASSEMBLY: The three-phase conductors are cabled with a Class B stranded, uninsulated ground wire and fillers to make round, a binder tape is applied overall
5. ARMOR: Aluminum interlocked armor
6. OVERALL JACKET: Extruded, yellow Polyvinyl Chloride (PVC) that meets UL sunlight-resistance requirements
7. STANDARDS: Listed Type MV-105 per UL 1072 and Type MC per UL 1569 and meets ICEA S-93-639 requirements. Cable passes the UL 1685 and IEEE 1202 (70,000 Btu/hr) and ICEA T-29-520 (210,000 Btu/hr) flame tests and are listed "for CT use"
8. AMPACITY: Based on a three-conductor cable isolated in air with a conductor temperature of 105°C and an ambient temperature of 40°C per 2008 NEC table 310.71
9. TEMPERATURE: 105°C
10. VOLTAGE: 5 kV

APPLICATIONS

For use in power circuits in industrial plants, commercial buildings, and central and substation utility applications. May be installed in trays, racks, hangers, etc., eliminating the need for conduit. Suitable for indoor and outdoor installation.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
7BB-0603A	6	7	6	0.115	0.050	1.50	1,160
7BB-0403A	4	7	6	0.115	0.050	1.60	1,380
7BB-0203A	2	7	6	0.115	0.050	1.75	1,760
7BB-0103A	1	19	4	0.115	0.050	1.87	2,055
7BB-1013A	1/0	19	4	0.115	0.050	1.96	2,345
7BB-2023A	2/0	19	4	0.115	0.060	2.05	2,705
7BB-3033A	3/0	19	3	0.115	0.060	2.16	2,920
7BB-4043A	4/0	19	3	0.115	0.060	2.28	3,805
7BB-2503A	250	37	3	0.115	0.060	2.41	4,275
7BB-3503A	350	37	2	0.115	0.075	2.66	5,655
7BB-5003A	500	37	1	0.115	0.075	2.99	7,565
7BB-7503A	750	61	1/0	0.115	0.075	3.42	10,450
7BB-10003A	1000	61	1/0	0.115	0.085	3.78	12,419

Note: 0.090 in. insulation thickness or galvanized steel interlocked armor available upon request.
Diameters and weights may vary among manufacturers.

Interlocked Armor

15 kV Three Conductor 133% Insulation Level

Aluminum interlocked armor

EPR insulation

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, annealed copper per ASTM B3 and B8, strand shield is an extruded semiconducting material
2. INSULATION: Ethylene Propylene Rubber (EPR)
3. SHIELDING: An extruded semiconducting thermoset insulation shield is applied over the insulation and then an uncoated copper tape is helically applied. The method of phase identification will be similar to ICEA Method 3 (1-Black, 2-Red, 3-Blue)
4. ASSEMBLY: The three-phase conductors are cabled with a Class B stranded, uninsulated ground wire and fillers to make round, a binder tape is applied overall
5. ARMOR: Aluminum interlocked armor
6. OVERALL JACKET: An extruded covering of red Polyvinyl Chloride (PVC) is applied overall that meets UL sunlight-resistance requirements
7. STANDARDS: Listed Type MV-105 per UL 1072 and Type MC per UL 1569 and is marked for CT use. Cable meets requirements of ICEA S-93-639 (NEMA WC74) and AEIC CS8. Cable passes UL 1685 and IEEE1202/FT4 (70,000 Btu/hr) and ICEA T-29-520 (210,000 Btu/hr) flame tests.
8. AMPACITY: Based on a 5 kV-35 kV three-conductor cable isolated in air with a conductor temperature rating of 105°C and an ambient temperature of 40°C per 2008 NEC table 310.71
9. TEMPERATURE: 105°C
10. VOLTAGE: 15 kV

APPLICATIONS

For use in power circuits in industrial plants, commercial buildings, and central and substation utility applications. May be installed in trays, racks, hangers, etc., eliminating the need for conduit. Suitable for indoor and outdoor installation.

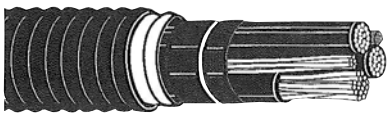
Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor	3M Terminations
7D-0203A	2	7	6	0.220	0.060	2.23	2,605	185	034004
7D-0103A	1	19	4	0.220	0.060	2.33	2,835	210	034004
7D-1013A	1/0	19	4	0.220	0.060	2.41	3,100	240	034004
7D-2023A	2/0	19	4	0.220	0.075	2.55	3,530	275	037023
7D-3033A	3/0	19	3	0.220	0.075	2.66	3,990	315	037023
7D-4043A	4/0	19	3	0.220	0.075	2.77	4,615	360	037023
7D-2503A	250	37	3	0.220	0.075	2.95	5,315	400	037023
7D-3503A	350	37	2	0.220	0.075	3.17	6,600	490	037023
7D-5003A	500	37	1	0.220	0.085	3.47	8,710	600	057312
7D-7503A	750	61	1/0	0.220	0.085	3.78	11,721	745	057312
7D-10003A	1000	61	1/0	0.220	0.085	4.22	14,761	860	057312

Note: 0.175 in. insulation thickness or galvanized steel interlocked armor available upon request.
Diameters and weights may vary among manufacturers.

Norteck (UL and CSA)

600 V Multiconductor

Aluminum interlocked armor
XLP insulation
Inner PVC jacket
90ºC, UL and CSA 600 V



SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, annealed copper per ASTM B3 and B8
2. INSULATION: Cross-Linked Polyethylene (XLP) per ICEA S-73-532 (NEMA WC57), UL Type XHHW-2 and CSA Type RW90. Color coding is Method 1, Table E-2 (formerly K-2) (two and three conductors) or Method 4 (four or more conductors)
3. ASSEMBLY: The insulated conductors are cabled with a single uninsulated ground wire and fillers to make round
4. INNER JACKET: Black, sunlight-resistant Polyvinyl Chloride (PVC) applied per ICEA, jacket meets low acid gas requirements of CSA C22.2 No. 0.3
5. ARMOR: Aluminum interlocked armor
6. OVERALL JACKET: Black, sunlight-resistant Polyvinyl Chloride (PVC) applied overall per ICEA, jacket meets low acid gas requirements of CSA C22.2 No. 0.3
7. STANDARDS: Cables pass UL 1685 and IEEE 1202/FT4 (70,000 Btu/hr) and ICEA T-29-520 (210,000 Btu/hr) flame tests. Cables are marked "for CT use" and meet CSA -40°C cold impact and bend test. Individual conductors listed Type XHHW-2 per UL 44 and CSA Type RW90. Cable listed UL Type MC per UL 1569 and CSA Type Teck 90 per C22.2 No. 131
8. AMPACITY: Based on not more than three conductors in raceway or cable or earth based on an ambient temperature of 30°C per 2008 NEC table 310.16, multiconductor values have been derated per 2008 NEC Table 310.15(B)(2)(a)
9. TEMPERATURE: 90°C
10. VOLTAGE: UL and CSA 600 V

APPLICATIONS

For use in control circuits in industrial plants, commercial buildings, and central and substation utility applications. May be installed in trays, racks, hangers, etc., eliminating the need for conduit. Suitable for indoor and outdoor installation. May be used in NEC Class I and II, Div 2 locations.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Ground Wire Size AWG	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
7XD-1402AJ	14	7	2	0.030	14	0.050	0.672	188	25
7XD-1403AJ	14	7	3	0.030	14	0.050	0.699	212	25
7XD-1404AJ	14	7	4	0.030	14	0.050	0.742	242	20
7XD-1405AJ	14	7	5	0.030	14	0.050	0.765	268	20
7XD-1407AJ	14	7	7	0.030	14	0.050	0.880	335	17
7XD-1409AJ	14	7	9	0.030	14	0.050	0.922	395	17
7XD-1412AJ	14	7	12	0.030	14	0.050	1.065	492	12
7XD-1415AJ	14	7	15	0.030	14	0.050	1.065	535	12
7XD-1419AJ	14	7	19	0.030	14	0.050	1.200	689	12
7XD-1425AJ	14	7	25	0.030	14	0.050	1.365	882	11
7XD-1430AJ	14	7	30	0.030	14	0.050	1.429	992	11
7XD-1437AJ	14	7	37	0.030	14	0.050	1.507	1,140	10
7XE-1202AJ	12	7	2	0.030	12	0.050	0.711	223	30
7XE-1203AJ	12	7	3	0.030	12	0.050	0.751	260	30
7XE-1204AJ	12	7	4	0.030	12	0.050	0.805	300	24
7XE-1205AJ	12	7	5	0.030	12	0.050	0.822	333	24
7XE-1207AJ	12	7	7	0.030	12	0.050	0.988	449	21
7XE-1209AJ	12	7	9	0.030	12	0.050	0.993	501	21
7XE-1212AJ	12	7	12	0.030	12	0.050	1.189	676	15
7XE-1215AJ	12	7	15	0.030	12	0.050	1.189	739	15
7XE-1219AJ	12	7	19	0.030	12	0.050	1.350	945	15
7XE-1225AJ	12	7	25	0.030	12	0.050	1.501	1,152	13
7XE-1230AJ	12	7	30	0.030	12	0.050	1.578	1,307	13
7XE-1237AJ	12	7	37	0.030	12	0.050	1.602	1,522	12

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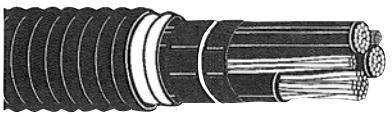
Norteck (UL and CSA)

(continued) 600 V Multiconductor

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Ground Wire Size AWG	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
7XF-1002AJ	10	7	2	0.030	10	0.050	0.759	275	40
7XF-1003AJ	10	7	3	0.030	10	0.050	0.818	330	40
7XF-1004AJ	10	7	4	0.030	10	0.050	0.878	385	32
7XF-1005AJ	10	7	5	0.030	10	0.050	0.918	452	32
7XF-1007AJ	10	7	7	0.030	10	0.050	1.082	623	28
7XF-1009AJ	10	7	9	0.030	10	0.050	1.109	657	28
7XF-1012AJ	10	7	12	0.030	10	0.050	1.352	935	20

600 V Three Conductor

Aluminum interlocked armor
XLP insulation
Inner and outer PVC jackets
UL 600 V, CSA 1 kV



SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, annealed copper per ASTM B3 and B8
2. INSULATION: Cross-Linked Polyethylene (XLP) per ICEA S-95-658 (NEMA WC70), Type RHH/RHW-2 requirements of UL 44 and RW90 requirements of CSA. Color coding is Method 1, Table E-2
3. ASSEMBLY: The insulated conductors are cabled with a single uninsulated ground wire and fillers to make round
4. INNER JACKET: Black, sunlight-resistant Polyvinyl Chloride (PVC). Jacket meets low acid gas requirements of CSA C22.2 No. 0.3
5. ARMOR: Aluminum-interlocked
6. OVERALL JACKET: Black, sunlight-resistant polyvinyl chloride (PVC) applied overall per ICEA, jacket meets low acid gas requirements of CSA C22.2 No. 0.3
7. STANDARDS: Cables meet UL 1685 and IEEE1202/FT4 (70,000 Btu/hr) and ICEA T-29-520 (210,000 Btu/hr) flame tests, and are marked "for CT use". Cables also meet CSA -40°C cold impact and bend test. Individual conductors UL Listed Type RHH/RHW-2 per UL 44 and listed CSA Type RW90. Completed cables listed Type MC per UL 1569 and CSA Type Teck 90 per CSA C22.2 No. 131
8. AMPACITY: Based on not more than three conductors in raceway or cable or earth based on an ambient temperature of 30°C per 2008 NEC table 310.16
9. TEMPERATURE: 90°C

APPLICATIONS

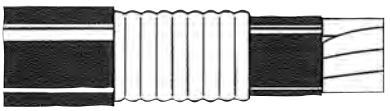
For use in power circuits in industrial plants, commercial buildings, and central and substation utility applications. May be installed in trays, racks, hangers, etc., eliminating the need for conduit. Suitable for indoor and outdoor installation. May be used in Class I and II, Div 2 locations.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Ground Wire Size AWG	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
7XK-0803AJ	8	7	3	0.060	10	0.050	0.937	450	55
7XK-0603AJ	6	7	3	0.060	8	0.050	1.082	850	75
7XK-0403AJ	4	7	3	0.060	8	0.050	1.240	927	95
7XK-0203AJ	2	7	3	0.060	6	0.050	1.360	1,256	130
7XK-1013AJ	1/0	19	3	0.080	6	0.050	1.603	1,768	170
7XK-2023AJ	2/0	19	3	0.080	6	0.050	1.708	2,130	195
7XK-4043AJ	4/0	19	3	0.080	4	0.060	1.957	3,181	260
7XK-2503AJ	250	37	3	0.095	4	0.060	2.162	3,796	290
7XK-3503AJ	350	37	3	0.095	3	0.060	2.370	4,935	350
7XK-5003AJ	500	37	3	0.095	2	0.060	2.665	6,668	430
7XK-7503AJ	750	61	3	0.110	1	0.075	3.038	9,387	535

Continuous Corrugated Weld

600 V Instrumentation

Continuous aluminum armor
PVC/nylon insulation
90°C dry, 600 V



SPECIFICATIONS

1. CONDUCTOR: Bare, annealed copper per ASTM B-3, class B stranded per ASTM B-8
2. INSULATION: Polyvinyl Chloride (PVC/nylon)
3. COLOR CODE: ICEA Method 1, pairs: black and white, triads: black, white and red
4. PAIR/TRIAD SHIELD: Aluminum/polyester tape with tinned copper drain wire
5. ASSEMBLY: Components are cabled with compatible fillers and an overall binder tape
6. OVERALL SHIELD: Aluminum/polyester tape with tinned copper drain wire
7. INNER JACKET: Polyvinyl Chloride (PVC) with rip cord
8. ARMOR: Impervious, seam-welded, corrugated aluminum that is pressure-tested after application
9. OVERALL JACKET: Polyvinyl Chloride (PVC)
10. STANDARDS: Meets UL 1569 requirements for metal-clad cables (Type MC-HL), meets the requirements of the IEEE 383, IEEE 1202 and UL 1685 70,000 Btu flame tests
11. TEMPERATURE: 90°C
12. VOLTAGE: 600 V

APPLICATIONS

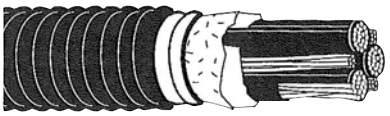
For use as instrumentation cable in areas where resistance to chemicals and flame is critical. May be used in wet or dry locations installed in open tray, trough or directly buried. May be installed in accordance with NEC Art. 725.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Pairs	No. of Triads	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
7I-1601POS	16	7	1		0.020	0.060	0.520	165
7I-1601TOS	16	7		1	0.020	0.060	0.520	171
7I-1602SPOS	16	7	2		0.020	0.060	0.760	249
7I-1604SPOS	16	7	4		0.020	0.060	0.900	365
7I-1604STOS	16	7		4	0.020	0.060	0.870	453
7I-1608SPOS	16	7	8		0.020	0.060	1.03	528
7I-1608STOS	16	7		8	0.020	0.060	1.17	738
7I-1612SPOS	16	7	12		0.020	0.060	1.34	744
7I-1624SPOS	16	7	24		0.020	0.060	1.68	1,288
7I-1802SPOS	18	7	2		0.020	0.060	0.760	224
7I-1804SPOS	18	7	4		0.020	0.060	0.860	294
7I-1808SPOS	18	7	8		0.020	0.060	1.03	441
7I-1812SPOS	18	7	12		0.020	0.060	1.17	569
7I-1824SPOS	18	7	24		0.020	0.060	1.59	995

Note: POS - Pair with Overall Shield; TOS - Triad with Overall Shield; SPOS - Shielded pairs with overall shield.
Diameters and weights may vary among manufacturers.

Continuous Corrugated Weld

600 V Control



Continuous aluminum armor

XLP insulation

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, annealed copper per ASTM B-3 and B-8
2. INSULATION: Cross-Linked Polyethylene (XLP) meeting the requirements of ICEA S-95-658 (NEMA WC70) and Type XHHW requirements of UL, color coding is Method 1, Table E-2
3. ASSEMBLY: The insulated conductors and a single, uninsulated UL ground wire(s) are cabled with fillers to make round
4. ARMOR: An impervious, corrugated continuous seam-welded aluminum alloy sheath in accordance with UL 1569. Armor is pressure-tested and meets the grounding requirements of NEC Article 250
5. OVERALL JACKET: Black, sunlight-resistant Polyvinyl Chloride (PVC)
6. STANDARDS: Cables are UL Listed for cable tray use and meet the IEEE 1202 (70,000 Btu/hr) flame test. Individual conductors and completed cables are tested in accordance with UL 2225 requirements for Type MC-HL cables
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth and an ambient temperature of 30°C per NEC table 310.16. All multiconductor values have been derated per 2008 NEC Table 310.15(B)(2)(a)
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

Control and lighting circuits in manufacturing and processing plants, feeders in industrial and commercial distribution systems. May be directly buried or installed in cable tray or raceway.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Ground Wire Size AWG	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
7R-1402	14	7	2	0.030	1#14	0.060	0.640	180	25
7R-1403	14	7	3	0.030	3#18	0.050	0.640	174	25
7R-1404	14	7	4	0.030	3#18	0.050	0.650	202	20
7R-1406	14	7	6	0.030	1#14	0.060	0.760	278	20
7R-1408	14	7	8	0.030	1#14	0.060	0.860	337	17
7R-1411	14	7	11	0.030	1#14	0.060	0.950	412	12
7R-1436	14	7	36	0.030	1#14	0.060	1.420	987	10
7R-1202	12	7	2	0.030	1#12	0.050	0.603	196	30
7R-1203	12	7	3	0.030	3#16	0.060	0.680	242	30
7R-1204	12	7	4	0.030	3#16	0.050	0.680	249	24
7R-1206	12	7	6	0.030	3#16	0.060	0.810	350	24
7R-1209	12	7	9	0.030	1#12	0.050	0.890	457	21
7R-1212	12	7	12	0.030	1#12	0.060	0.980	513	15
7R-1003	10	7	3	0.030	3#14	0.060	0.720	308	40
7R-1004	10	7	4	0.030	3#14	0.050	0.730	327	32
7R-1006	10	7	6	0.030	1#10	0.060	0.890	450	32

Continuous Corrugated Weld

600 V Three Conductor Power

Continuous aluminum armor

XLP insulation

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, annealed copper per ASTM B3 and B8
2. INSULATION: Cross-Linked Polyethylene (XLP) meeting the requirements of ICEA S-95-658 (NEMA WC70) and Type XHHW requirements of UL 44. Conductors are identified per ICEA S-58-679, using Method 3, Table 2 for sizes AWG 4 and larger, and using Method 1, Table 2 for sizes AWG 6 and smaller
3. ASSEMBLY: The conductors and ground wires are cabled with fillers to make round
4. ARMOR: An impervious, corrugated continuous seam-welded aluminum alloy sheath in accordance with UL 1569. Armor is pressure-tested and meets the grounding requirements of NEC Article 250
5. OVERALL JACKET: Black, sunlight-resistant Polyvinyl Chloride (PVC)
6. STANDARDS: Cables are marked "for CT use" and pass the UL 1685, IEEE 1202/CSA FT4 70,000 Btu/hr and the ICEA T-29-520 210,000 Btu/hr flame test. Individual conductors are UL Listed Type XHHW per UL 44 and completed cables are UL Listed Type MC-HL UL 2225 per UL 2225
7. AMPACITY: Not more than three conductors in raceway or cable or earth based on an ambient temperature of 30°C per Article 310.16 of the 2008 NEC
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

Primary power and lighting circuits in manufacturing and processing plants, feeders in industrial and commercial distribution systems. May be directly buried or installed in cable tray or raceway. Can be used in Classes I, II and III, Division 1 and 2, hazardous locations covered under NEC Articles 501, 502 and 503.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal Diameter over Armor (in.)	Nominal Diameter over Jacket (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
7R-0803	8	7	3#14	0.045	0.050	0.75	0.85	396	55
7R-0603	6	7	3#12	0.045	0.050	0.80	0.90	529	75
7R-0403	4	7	3#12	0.045	0.050	0.91	1.01	716	95
7R-0203	2	7	3#10	0.045	0.050	1.05	1.15	1,037	130
7R-1013	1/0	19	3#10	0.055	0.050	1.35	1.45	1,647	170
7R-2023	2/0	19	3#8	0.055	0.050	1.47	1.57	1,914	195
7R-4043	4/0	19	3#8	0.055	0.060	1.67	1.79	2,753	260
7R-2503	250	37	3#8	0.065	0.060	1.87	1.99	3,234	290
7R-3503	350	37	3#6	0.065	0.060	2.20	2.32	4,329	350
7R-5003	500	37	3#6	0.065	0.075	2.43	2.58	5,998	430

Note: Oversize ground wire availability for paralleling application.
Special rules apply when paralleling these cables. Contact us for application assistance.
Diameters and weights may vary among manufacturers.

Continuous Corrugated Weld

600 V Four Conductor Power

Continuous aluminum armor

XLP insulation

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, annealed copper per ASTM B3 and B8
2. INSULATION: Cross-Linked Polyethylene (XLP) meeting the requirements of ICEA S-95-658 (NEMA WC70) and Type XHHW requirements of UL 44. Conductors are identified per ICEA S-58-679, using Method 3, Table 2 for sizes AWG 4 and larger, and using Method 1, Table 2 for sizes AWG 6 and smaller
3. ASSEMBLY: The conductors and ground wires are cabled with fillers to make round
4. ARMOR: An impervious, corrugated continuous seam-welded aluminum alloy sheath in accordance with UL 1569. Armor is pressure-tested and meets the grounding requirements of NEC Article 250
5. OVERALL JACKET: Black, sunlight-resistant Polyvinyl Chloride (PVC)
6. STANDARDS: Cables are marked "for CT use" and pass the UL 1685, IEEE 1202/CSA FT4 70,000 Btu/hr and the ICEA T-29-520 210,000 Btu/hr flame test. Individual conductors are UL Listed Type XHHW per UL 44 and completed cables are UL Listed Type MC-HL UL 2225 per UL 2225
7. AMPACITY: Not more than three conductors in raceway or cable or earth based on an ambient temperature of 30°C per Article 310.16 of the 2008 NEC
8. TEMPERATURE: 90°C
9. VOLTAGE: 600

APPLICATIONS

Primary power and lighting circuits in manufacturing and processing plants, feeders in industrial and commercial distribution systems. May be directly buried or installed in cable tray or raceway. Can be used in Classes I, II and III, Division 1 and 2, hazardous locations covered under NEC Articles 501, 502 and 503.

Anixter No.	Conductor Size AWG	No. of Strands	Ground Wire Size AWG	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
7R-0804	8	7	3#10	0.045	0.050	0.90	465	44
7R-0604	6	7	1#8	0.045	0.050	1.010	652	60
7R-0404	4	7	1#8	0.045	0.050	1.150	889	76
7R-0204	2	19	1#6	0.055	0.060	1.320	1,290	104
7R-1014	1/0	19	1#6	0.055	0.050	1.57	1,914	136
7R-2024	2/0	19	1#6	0.055	0.060	1.71	2,391	156
7R-4044	4/0	19	1#4	0.055	0.060	1.990	3,516	208
7R-2504	250	37	1#4	0.065	0.060	2.16	4,055	232
7R-3504	350	37	1#3	0.065	0.075	2.440	5,592	280
7R-5004	500	37	1#2	0.065	0.075	2.820	7,721	344

Note: Oversize ground wire availability for paralleling application.
Special rules apply when paralleling these cables. Contact us for application assistance.
Diameters and weights may vary among manufacturers.

Continuous Corrugated Weld

2,000 V Armored VFD Cables

AC drive cables
Continuous aluminum armor
XLP insulation

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, annealed copper per ASTM B-3, B-8
2. INSULATION: Cross-Linked Polyethylene (XLP), ICEA 2,000 V insulation levels, also meets CSA RW90 in 6 AWG and larger, conductors are identified by number coding "1", "2", and "3" on the surface insulation
3. ASSEMBLY: The insulated conductors and ground wire(s) are cabled with fillers to make round
4. ARMOR: An impervious, corrugated continuous seam-welded aluminum alloy sheath in accordance with UL 1569, armor is pressure-tested and meets the grounding requirements of NEC Article 250
5. OVERALL JACKET: Black, sunlight-resistant Polyvinyl Chloride (PVC)
6. STANDARDS: Cables meet UL and IEEE 383 70,000 Btu Flame Tests and are marked "for CT use", individual conductors and completed cables are tested in accordance with UL requirements for Type MC-HL cables
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth and an ambient temperature of 30°C per NEC 310.16
8. TEMPERATURE: 90°C
9. VOLTAGE: 2,000 V ICEA, 600 V UL

APPLICATIONS

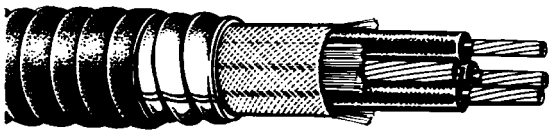
Primary power for all types of AC motor drives, especially between PWM inverters and AC motors. Cable may be used in all types of industrial and processing facilities. This cable also can be used for many other power applications in most environments.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	Insulation Thickness (in.)	Armor Thickness (in.)	Overall Jacket Thickness (in.)	Nominal Diameter over Armor (in.)	Nominal Diameter over Jacket (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
7V-1403	14	7	1#14*	0.045	0.027	0.050	0.68	0.79	260	25
7V-1203	12	7	1#12*	0.045	0.027	0.050	0.68	0.79	279	30
7V-1003	10	7	1#10*	0.045	0.027	0.050	0.73	0.84	371	40
7V-0803-3G	8	7	3#14	0.055	0.027	0.050	0.76	0.87	431	55
7V-0603-3G	6	7	3#12	0.060	0.027	0.050	0.94	1.05	633	75
7V-0403-3G	4	7	3#12	0.060	0.027	0.050	1.07	1.18	826	95
7V-0203-3G	2	7	3#10	0.060	0.027	0.050	1.24	1.35	1,239	130
7V-1013-3G	1/0	19	3#10	0.080	0.035	0.050	1.59	1.70	1,936	170
7V-2023-3G	2/0	19	3#6	0.080	0.035	0.050	1.69	1.81	2,289	195
7V-4043-3G	4/0	19	3#4	0.080	0.039	0.060	1.94	2.08	3,379	260
7V-2503-3G	250	37	3#4	0.090	0.043	0.060	2.12	2.26	3,906	290
7V-3503-3G	350	37	3#2	0.090	0.047	0.060	2.44	2.58	5,365	350
7V-5003-3G	500	37	3#1	0.090	0.051	0.075	2.79	2.96	7,249	430

*14, 12 and 10 AWG have one grounding conductor to facilitate termination, three grounding conductor constructions are also stocked, use "-3G" suffix.
2,000 V UL for flexible AC Drive cable applications are also available on special order.
Unless otherwise specifically permitted in the NEC, the overcurrent protection shall not exceed 15 A for 14 AWG, 20 A for 12 AWG, 30 A for 10 AWG.

Continuous Corrugated Weld

2,400 V Three Conductor Nonshielded



Continuous aluminum armor
EPR insulation
100% insulation level

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, annealed copper per ASTM B3 and B8, strand shield is an extruded semiconducting material
2. INSULATION: Ethylene Propylene Rubber (EPR), the insulated phase conductors are printed with the numbers "1", "2" and "3"
3. ASSEMBLY: The three-phase conductors are cabled with UL sized uninsulated ground wires and fillers to make round with a cable tape applied over the core
4. ARMOR: An impervious, corrugated continuous seam-welded aluminum alloy sheath in accordance with UL 1569. Armor is pressure tested and meets the grounding requirements of NEC Article 250
5. OVERALL JACKET: Yellow, sunlight-resistant Polyvinyl Chloride (PVC)
6. STANDARDS: Cable are UL Listed Type MV-90 and Type MC-HL and meet ICEA S-96-659 (NEMA WC71) requirements. Cables pass the UL 1685, IEEE 1202 and CSA FT-4 (70,000 Btu/hr) and ICEA T-29-520 (210,000 Btu/hr) flame tests and and are marked "for CT use"
7. AMPACITY: Based on a three-conductor cable isolated in air with a conductor temperature of 90°C and an ambient temperature of 40°C per 2008 NEC table 310.71
8. TEMPERATURE: 90°C
9. VOLTAGE: 2,400 V

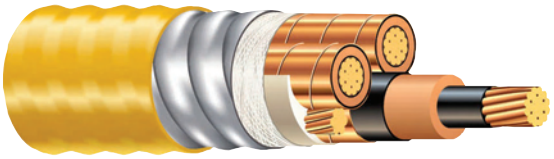
APPLICATIONS

Primary power and lighting circuits in manufacturing and processing plants, feeders in industrial and commercial distribution systems, power supply to station auxiliaries in electric power stations and substations. May be used in wet or dry locations installed in open tray, trough or ladder.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal Diameter over Armor (in.)	Nominal Diameter over Jacket (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
7S-0403	4	7	3#10	0.090	0.050	1.35	1.45	1,068	105
7S-0203	2	7	3#10	0.090	0.050	1.47	1.57	1,387	140
7S-1013	1/0	19	3#8	0.090	0.060	1.59	1.71	1,918	185
7S-2023	2/0	19	3#8	0.090	0.060	1.76	1.88	2,223	215
7S-4043	4/0	19	3#6	0.090	0.060	2.04	2.16	3,282	285
7S-2503	250	37	3#6	0.090	0.060	2.20	2.32	3,640	320
7S-3503	350	37	3#6	0.090	0.075	2.43	2.58	4,952	395
7S-5003	500	37	3#4	0.090	0.075	2.67	2.82	6,562	485

Continuous Corrugated Weld

5 kV Three Conductor Shielded



Continuous aluminum armor

EPR insulation

100% and 133% insulation level

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, annealed copper per ASTM B3 and B8, strand shield is an extruded semiconducting material
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-93-639 (NEMA WC74), the insulated phase conductors are printed with the numbers "1", "2" and "3"
3. SHIELD: An extruded semiconducting insulation shield is applied per ICEA S-93-639 and an uncoated copper tape shield is helically applied over the insulation shield
4. ASSEMBLY: The three-phase conductors are cabled with a UL size, Class B stranded, uninsulated ground wire and fillers to make round, a binder tape is applied overall
5. ARMOR: An impervious, corrugated continuous seam-welded aluminum alloy sheath in accordance with UL 1569, armor is pressure tested and meets the grounding requirements of NEC Article 250
6. OVERALL JACKET: Yellow, sunlight-resistant Polyvinyl Chloride (PVC)
7. STANDARDS: Cable shall be tested in accordance with UL 1072 requirements for Type MV-105, UL 2225 requirements for Type MC-HL and ICEA S-93-639 (NEMA WC74). The cables meet the UL 1685 and IEEE 1202/FT4 (70,000 Btu/hr) and the ICEA T-29-520 (210,000 Btu/hr) vertical tray flame tests and are marked "for CT use". Cables meet the qualification testing requirements of AEIC CS-8
8. AMPACITY: Based on a three-conductor cable isolated in air with a conductor temperature of 90°C and an ambient temperature of 40°C per 2008 NEC table 310.71
9. TEMPERATURE: 105°C
10. VOLTAGE: 5 kV

APPLICATIONS

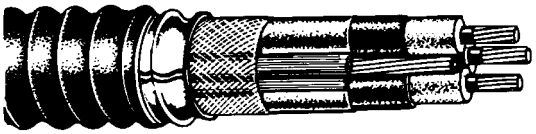
Primary power and lighting circuits in manufacturing and processing plants, feeders in industrial and commercial distribution systems, power supply to station auxiliaries in electric power stations and substations. May be used in wet or dry locations installed in open tray, trough or ladder.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal Diameter over Armor (in.)	Nominal Diameter over Jacket (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
7SS-0403	4	7	6	0.115	0.060	1.59	1.71	1,460	105
7SS-0203	2	7	6	0.115	0.060	1.76	1.88	1,797	140
7SS-1013	1/0	19	4	0.115	0.060	1.87	1.99	2,368	185
7SS-2023	2/0	19	4	0.115	0.060	2.04	2.16	2,716	215
7SS-3503	350	37	2	0.115	0.075	2.67	2.82	5,483	395
7SS-5003	500	37	1	0.115	0.075	2.98	3.13	7,363	485
7SS-7503	750	61	1/0	0.115	0.085	3.54	3.71	10,741	615

Continuous Corrugated Weld

15 kV Three Conductor 133% Insulation Level

Continuous aluminum armor
Shielded
EPR insulation



SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, annealed copper per ASTM B3 and B8, strand shield is an extruded semiconducting material
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-93-639 (NEMA WC74)
3. SHIELD: An extruded semiconducting insulation shield and then an uncoated 5-mil copper tape with 25% overlap is helically applied over the semiconducting layer
4. ASSEMBLY: The three-phase conductors are cabled with a Class B stranded ground wire and fillers to make round, a binder tape is applied overall
5. ARMOR: An impervious, corrugated continuous seam-welded aluminum alloy sheath in accordance with UL 1569, armor is pressure-tested and meets the grounding requirements of NEC Article 250
6. OVERALL JACKET: Red, sunlight-resistant Polyvinyl Chloride (PVC)
7. STANDARDS: Cable shall be tested in accordance with UL 1072 requirements for Type MV-105, UL 2205 for Type MC-HL and ICEA S-93-639 (NEMA WC74). Cables meet the UL 1685 and IEEE 1202/FT4 70,000 Btu/hr and the ICEA T-29-520 210,000 Btu/hr vertical tray flame tests and are marked "for CT use". Cable meets AEIC CS-8 qualification testing requirements
8. AMPACITY: Based on a three-conductor cable isolated in air with a conductor temperature of 90°C and an ambient temperature of 40°C per NEC 310.71
9. TEMPERATURE: 90°C
10. VOLTAGE: 15 kV

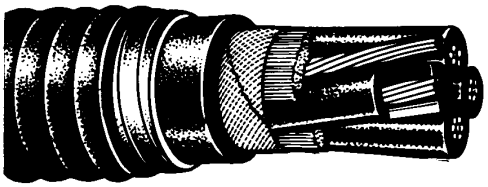
APPLICATIONS

Primary power and lighting circuits in manufacturing and processing plants, feeders in industrial and commercial distribution systems, power supply to station auxiliaries in electric power stations and substations. May be used in wet or dry locations installed in open tray, trough or ladder.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal Diameter over Armor (in.)	Nominal Diameter over Jacket (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
7Y-0203	2	7	6	0.220	0.075	2.29	2.44	2,540	165
7Y-1013	1/0	19	4	0.220	0.075	2.43	2.58	3,126	215
7Y-2023	2/0	19	4	0.220	0.075	2.55	2.70	3,588	245
7Y-4043	4/0	19	3	0.220	0.075	2.75	2.90	4,663	325
7Y-3503	350	37	2	0.220	0.085	3.22	3.39	6,456	435
7Y-5003	500	37	1	0.220	0.085	3.54	3.71	8,451	535
7Y-7503	750	61	1/0	0.220	0.085	3.58	4.02	11,666	670

Teck 90 (CSA)

600 V 14 AWG Multiconductor



Galvanized steel or aluminum armor

XLP insulation

Inner and outer PVC jackets, interlocked armor

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, soft copper
2. INSULATION: Cross-Linked Polyethylene (XLP) as approved by CSA on Types RW90 XLP -40°C per CSA C22.2, No. 131. Color code: 2/C black, white; 3/C red, black, blue; 4/C red, black, blue, white: more than 4/C numbered
3. GROUNDING CONDUCTOR: 14 AWG uninsulated Class B stranded grounding conductor is included in the cable assembly
4. ASSEMBLY: Multiple conductor cables are assembled with suitable fillers and binder tape
5. INNER JACKET: Polyvinyl Chloride (PVC) heat-, flame- and moisture-resistant jacket, rated -40°C
6. ARMOR: Aluminum or galvanized steel interlocking armor
7. OVERALL JACKET: Polyvinyl Chloride (PVC) heat-, flame- and moisture-resistant jacket, rated -40°C, the standard color is black but colored jackets are available. Meets Ontario Hydro Spec. L-891 SM-77 flame test and passes FT4 vertical tray flame test
8. AMPACITY: Based on 90°C column of Table 2 of the 2009 Canadian Electric Code, allowable ampacities for not more than 3 copper conductors in raceway or cable based on 30°C ambient temperature. Ampacity correction factors for number of conductors from Table 5C of the CEC
9. TEMPERATURE: -40°C to 90°C
10. VOLTAGE: 600 V

APPLICATIONS

For exposed or concealed wiring in wet or dry locations. For use in ventilated, non-ventilated and ladder type cable troughs and ventilated flexible cableway in wet or dry locations. For direct earth burial. Typical applications are for power, lighting and control circuits in: pulp and paper mills, steel mills, food processing plants, commercial centers, mines, generating stations, refineries, industrial plants and chemical plants.

					Approx. Wt. lb./1,000 ft.		Approx. Wt. lb./1,000 ft.		
Anixter No.	No. of Conductors	Approx. Diameter Inner Jacket (in.)	Approx. Diameter Armor (in.)	Approx. Diameter Outer Jacket (in.)	Alum. Armor Unjacketed	Alum. Armor Jacketed	Steel Armor Unjacketed	Steel Armor Jacketed	Amps per Conductor
7TD-1402	2	0.372	0.575	0.680	140	205	255	320	15
7TD-1403	3	0.394	0.595	0.700	160	225	280	345	15
7TD-1404	4	0.442	0.645	0.750	188	260	320	390	15
7TD-1405	5	0.480	0.680	0.790	215	290	355	430	12
7TD-1406	6	0.520	0.720	0.830	240	320	390	470	12
7TD-1407	7	0.535	0.735	0.840	260	340	410	490	10
7TD-1408	8	0.605	0.805	0.915	310	395	480	570	10
7TD-1409	9	0.640	0.840	0.945	335	425	520	610	10
7TD-1410	10	0.680	0.880	0.985	365	460	560	650	10
7TD-1411	11	0.690	0.890	0.995	380	475	570	670	10
7TD-1412	12	0.715	0.915	1.02	400	495	590	690	10
7TD-1413	13	0.725	0.925	1.03	420	520	620	710	10
7TD-1414	14	0.760	0.960	1.07	485	590	760	860	10
7TD-1415	15	0.765	0.965	1.08	510	610	780	890	10
7TD-1416	16	0.790	0.990	1.10	530	630	810	920	10
7TD-1417	17	0.810	1.010	1.12	550	660	840	950	10
7TD-1418	18	0.830	1.030	1.14	580	690	870	980	10
7TD-1419	19	0.840	1.040	1.15	600	710	900	1,020	10
7TD-1420	20	0.855	1.060	1.16	620	730	920	1,040	10
7TD-1425	25	1.000	1.200	1.31	780	900	1,140	1,260	9
7TD-1430	30	1.080	1.280	1.39	890	1,040	1,280	1,400	9
7TD-1440	40	1.200	1.400	1.51	1,100	1,260	1,520	1,660	9
7TD-1450	50	1.310	1.510	1.62	1,300	1,460	1,760	1,920	7

Note: After catalog number use; "SJ" for steel, "AJ" for aluminum (e.g. 7TD-1407AJ).
Diameters and weights may vary among manufacturers.

Continued on next page >>

Teck 90 (CSA)

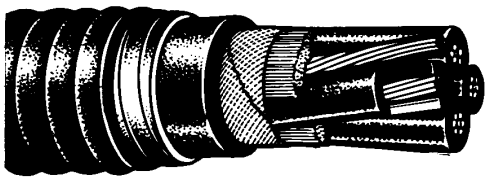
(continued) 600 V 14 AWG Multiconductor

Anixter No.	No. of Conductors	Approx. Diameter Inner Jacket (in.)	Approx. Diameter Armor (in.)	Approx. Diameter Outer Jacket (in.)	Approx. Wt. lb./1,000 ft. Alum. Armor Unjacketed	Approx. Wt. lb./1,000 ft. Alum. Armor Jacketed	Approx. Wt. lb./1,000 ft. Steel Armor Unjacketed	Approx. Wt. lb./1,000 ft. Steel Armor Jacketed	Amps per Conductor
7TD-1460	60	1.430	1.630	1.76	1,520	1,720	2,000	2,200	7
7TD-1470	70	1.510	1.760	1.89	1,760	1,980	2,400	2,600	7
7TD-1480	80	1.600	1.850	1.98	1,980	2,200	2,650	2,850	7
7TD-1490	90	1.690	1.910	2.04	2,200	2,450	2,850	3,100	7
7TD-14100	100	1.830	2.080	2.22	2,800	3,550	3,350	3,650	7

Note: After catalog number use; "SJ" for steel, "AJ" for aluminum (e.g. 7TD-1407AJ).
Diameters and weights may vary among manufacturers.

Teck 90 (CSA)

600 V 12 AWG Multiconductor



Galvanized steel or interlocked aluminum armor

XLP insulation

Inner and outer PVC jackets, interlocked armor

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, soft copper
2. INSULATION: Cross-Linked Polyethylene (XLP) as approved by CSA on Types RW90 XLP -40°C per CSA C22.2, No. 131, color code: 2/C black, white; 3/C red, black, blue; 4/C red, black, blue, white; more than 4/C numbered
3. GROUNDING CONDUCTOR: 14 AWG uninsulated Class B stranded grounding conductor is included in the cable assembly
4. ASSEMBLY: Multiple conductor cables are assembled with suitable fillers and binder tape
5. INNER JACKET: Polyvinyl Chloride (PVC) heat-, flame- and moisture-resistant jacket, rated -40°C
6. ARMOR: Aluminum or galvanized steel interlocking armor
7. OVERALL JACKET: Polyvinyl Chloride (PVC) heat-, flame- and moisture-resistant jacket, rated -40°C, the standard color is black but colored jackets are available on request. Cable meets Ontario Hydro Spec. L-891 SM-77 flame test and FT4 vertical tray flame test
8. AMPACITY: Based on 90°C column of Table 2 of the 2009 Canadian Electric Code, allowable ampacities for not more than 3 copper conductors in raceway or cable based on 30°C ambient temperature. Ampacity correction factors for number of conductors from Table 5C of the CEC
9. TEMPERATURE: -40°C to 90°C
10. VOLTAGE: 600 V

APPLICATIONS

For exposed or concealed wiring in wet or dry locations. For use in ventilated, non-ventilated and ladder type cable troughs and ventilated flexible cableway in wet or dry locations. For direct earth burial. Typical applications are for power, lighting and control circuits in: pulp and paper mills, steel mills, food processing plants, commercial centers, mines, generating stations, refineries, industrial plants and chemical plants.

					Approx. Wt. lb./1,000 ft.		Approx. Wt. lb./1,000 ft.		
Anixter No.	No. of Conductors	Approx. Diameter Inner Jacket (in.)	Approx. Diameter Armor (in.)	Approx. Diameter Outer Jacket (in.)	Alum. Armor Unjacketed	Alum. Armor Jacketed	Steel Armor Unjacketed	Steel Armor Jacketed	Amps per Conductor
7TE-1202	2	0.410	0.610	0.710	230	165	355	290	20
7TE-1203	3	0.434	0.635	0.740	265	194	395	325	20
7TE-1204	4	0.480	0.680	0.790	305	230	445	370	16
7TE-1205	5	0.535	0.735	0.840	350	265	500	420	16
7TE-1206	6	0.610	0.810	0.915	415	325	590	495	16
7TE-1207	7	0.620	0.820	0.925	440	350	620	530	14
7TE-1208	8	0.670	0.870	0.975	485	390	670	580	14
7TE-1209	9	0.705	0.905	1.02	520	420	710	610	14
7TE-1210	10	0.755	0.955	1.06	600	495	870	770	14
7TE-1211	11	0.765	0.965	1.08	630	530	910	810	14
7TE-1212	12	0.890	0.990	1.10	670	560	950	850	14
7TE-1214	14	0.840	1.04	1.15	740	630	1,040	930	14
7TE-1215	15	0.855	1.06	1.17	770	660	1,080	960	14
7TE-1216	16	0.880	1.08	1.19	800	690	1,120	1,000	14
7TE-1217	17	0.945	1.15	1.25	890	760	1,220	1,100	14
7TE-1218	18	0.965	1.17	1.28	920	800	1,260	1,140	14
7TE-1219	19	0.975	1.18	1.29	950	830	1,300	1,180	14
7TE-1220	20	0.995	1.20	1.30	980	860	1,340	1,220	14
7TE-1225	25	1.130	1.31	1.42	1,160	1,020	1,560	1,420	12
7TE-1230	30	1.200	1.40	1.50	1,340	1,180	1,740	1,600	12
7TE-1240	40	1.340	1.54	1.65	1,660	1,480	2,100	1,940	12
7TE-1250	50	1.470	1.67	1.80	2,000	1,800	2,500	2,300	10
7TE-1260	60	1.690	1.85	1.98	2,400	2,150	3,000	2,800	10
7TE-1270	70	1.690	1.94	2.08	2,700	2,450	3,350	3,100	10
7TE-1280	80	1.850	2.10	2.24	3,150	2,900	4,000	3,750	10
7TE-1290	90	1.960	2.22	2.34	3,500	3,200	4,300	4,100	10
7TE-12100	100	2.060	2.30	2.46	3,850	3,500	4,750	4,400	10

Note: After catalog number use; "SJ" for steel, "AJ" for aluminum (e.g. 7TE-1203AJ).
Diameters and weights may vary among manufacturers.

Teck 90 (CSA)

600 V 10 AWG Multiconductor

XLP insulation

Inner and outer PVC jackets

Galvanized steel or aluminum interlocked armor

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, soft copper
2. INSULATION: Cross-Linked Polyethylene (XLP) as approved by CSA on Types RW90 XLP -40°C per CSA C22.2, No. 131, color code: 2/C black, white; 3/C red, black, blue; 4/C red, black, blue, white; more than 4/C numbered
3. GROUNDING CONDUCTOR: 14 AWG uninsulated Class B stranded grounding conductor is included in the cable assembly
4. ASSEMBLY: Multiple conductor cables are assembled with suitable fillers and binder tape
5. INNER JACKET: Polyvinyl Chloride (PVC) heat-, flame- and moisture-resistant jacket, rated -40°C
6. ARMOR: Aluminum or galvanized steel interlocking armor
7. OVERALL JACKET: Polyvinyl chloride (PVC) heat-, flame- and moisture-resistant jacket, rated -40°C, the standard color is black but colored jackets are available on request, meets Ontario Hydro Spec. L-891 SM-77 flame test and FT4 vertical tray flame test
8. AMPACITY: Based on 90°C column of Table 2 of the 2009 Canadian Electric Code, allowable ampacities for not more than 3 copper conductors in raceway or cable based on 30°C ambient temperature. Ampacity correction factors for number of conductors from Table 5C of the CEC
9. TEMPERATURE: -40°C to 90°C
10. VOLTAGE: 600 V

APPLICATIONS

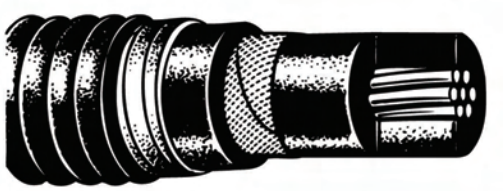
For exposed or concealed wiring in wet or dry locations. For use in ventilated, non-ventilated and ladder type cable troughs and ventilated flexible cableway in wet or dry locations. For direct earth burial. Typical applications are for power, lighting and control circuits in: pulp and paper mills, steel mills, food processing plants, commercial centers, mines, generating stations, refineries, industrial plants and chemical plants.

Anixter No.	No. of Conductors	Approx. Diameter Inner Jacket (in.)	Approx. Diameter Armor (in.)	Approx. Diameter Outer Jacket (in.)	Approx. Wt. lb./1,000 ft. Alum. Armor Unjacketed	Approx. Wt. lb./1,000 ft. Alum. Armor Jacketed	Approx. Wt. lb./1,000 ft. Steel Armor Unjacketed	Approx. Wt. lb./1,000 ft. Steel Armor Jacketed	Amps per Conductor
7TF-1002	2	0.458	0.650	0.765	210	280	340	415	30
7TF-1003	3	0.486	0.690	0.800	255	330	395	470	30
7TF-1004	4	0.550	0.750	0.860	305	390	460	645	24
7TF-1005	5	0.630	0.830	0.935	375	465	550	640	24
7TF-1006	6	0.680	0.870	0.990	430	525	615	710	24
7TF-1007	7	0.695	0.900	1.010	470	570	665	760	21
7TF-1008	8	0.755	0.955	1.070	560	660	830	930	21
7TF-1009	9	0.795	0.995	1.110	610	715	890	995	21
7TF-1010	10	0.850	1.050	1.160	670	775	960	1,080	21
7TF-1011	11	0.865	1.07	1.17	710	810	1,020	1,120	21
7TF-1012	12	0.935	1.14	1.24	800	915	1,120	1,240	21
7TF-1013	13	0.945	1.15	1.26	840	960	1,180	1,300	21
7TF-1014	14	0.995	1.20	1.30	890	1,020	1,240	1,360	21
7TF-1015	15	1.020	1.21	1.31	940	1,060	1,280	1,420	21
7TF-1016	16	1.040	1.24	1.34	980	1,120	1,340	1,480	21
7TF-1017	17	1.060	1.26	1.37	1,040	1,180	1,400	1,540	21
7TF-1018	18	1.090	1.29	1.40	1,080	1,220	1,460	1,600	21
7TF-1019	19	1.100	1.30	1.41	1,140	1,260	1,500	1,640	21
7TF-1020	20	1.120	1.32	1.43	1,180	1,320	1,560	1,700	21
7TF-1025	25	1.260	1.46	1.57	1,420	1,560	1,840	1,980	18
7TF-1030	30	1.360	1.56	1.67	1,640	1,840	2,100	2,300	18
7TF-1040	40	1.530	1.78	1.89	2,140	2,350	2,750	3,000	18
7TF-1050	50	1.660	1.91	2.04	2,560	2,800	3,250	3,500	15

Note: After catalog number use; "SJ" for steel, "AJ" for aluminum (e.g. 7TF-1003AJ).
Diameters and weights may vary among manufacturers.

Teck 90 (CSA)

1 kV Single Conductor



XLP insulation

Inner and outer PVC jackets

Aluminum interlocked armor

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, soft copper, for single conductor cables the minimum size is AWG #6
2. INSULATION: Cross-Linked Polyethylene (XLP) Type RW-90 per CSA C22.2, No. 131
3. GROUNDING CONDUCTOR: Composed of individual wires applied helically over the insulation
4. INNER JACKET: Polyvinyl Chloride (PVC)
5. ARMOR: Aluminum interlocking armor (for single conductor cables for use in AC circuits aluminum armor only is provided and non-magnetic [aluminum] connectors and locknuts must be used)
6. OUTER JACKET: Polyvinyl Chloride (PVC) heat-, flame- and moisture-resistant jacket, rated -40°C, the standard color is black but colored jackets will be provided on request
7. STANDARDS: The cable is certified to CSA C22.2 No. 131 Type Teck 90 and No. 174 for use in CSA Class 1, Division 1, hazardous locations (CSA HL rated) and passes the FT4 vertical tray flame test
8. AMPACITY: Based on 90°C column of Table 1 of the 2009 Canadian Electric Code, allowable ampacities for single copper conductors in free air based on 30°C ambient temperature
9. TEMPERATURE: -40°C to 90°C
10. VOLTAGE: 1 kV

APPLICATIONS

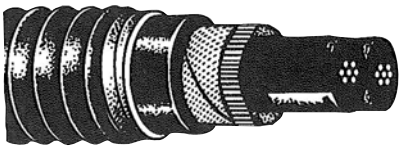
For exposed or concealed wiring in wet or dry locations. For use in ventilated, non-ventilated and ladder type cable troughs and ventilated flexible cableway in wet or dry locations. For direct earth burial.

Anixter No.	Conductor Size AWG	Ground Wire Size AWG	Nominal Diameter Inner Jacket (in.)	Nominal Diameter Armor (in.)	Nominal Diameter Outer Jacket (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
7TI-0601AJ	6	8	0.47	0.67	0.77	340	100
7TI-0401AJ	4	6	0.52	0.72	0.82	410	135
7TI-0301AJ	3	6	0.55	0.75	0.85	490	155
7TI-0201AJ	2	6	0.58	0.78	0.88	540	180
7TI-0101AJ	1	4	0.68	0.88	0.99	660	210
7TI-1011AJ	1/0	4	0.72	0.92	1.03	750	245
7TI-2021AJ	2/0	4	0.77	0.97	1.08	890	285
7TI-3031AJ	3/0	3	0.82	1.02	1.13	1,080	330
7TI-4041AJ	4/0	3	0.88	1.08	1.19	1,240	385
7TI-2501AJ	250	2	1.00	1.12	1.31	1,450	425
7TI-3001AJ	300	2	1.05	1.25	1.36	1,640	480
7TI-3501AJ	350	1	1.10	1.30	1.41	1,820	530
7TI-4001AJ	400	1	1.15	1.35	1.46	2,010	575
7TI-5001AJ	500	1/0	1.25	1.45	1.58	2,370	660
7TI-6001AJ	600	1/0	1.34	1.54	1.66	2,840	740
7TI-7501AJ	750	2/0	1.44	1.64	1.77	3,380	845
7TI-10001AJ	1000	2/0	1.59	1.84	1.97	4,300	1,000
7TI-12501AJ	1250	3/0	1.84	2.10	2.24	5,600	1,130
7TI-15001AJ	1500	4/0	2.02	2.26	2.40	6,600	1,260
7TI-17501AJ	1750	4/0	2.12	2.38	2.54	7,500	1,370
7TI-20001AJ	2000	4/0	2.22	2.48	2.64	8,400	1,470

Diameters and weights may vary among manufacturers.

Teck 90 (CSA)

1 kV Two Conductor



Galvanized steel or interlocked aluminum armor

XLP insulation

Inner and outer PVC jackets

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, soft copper
2. INSULATION: Cross-Linked Polyethylene (XLP)
3. COLOR CODING: Surface color coding is standard for sizes up to and including AWG #6, for larger than sizes number coding is standard
4. GROUNDING CONDUCTOR: An uninsulated Class B stranded grounding conductor is included in the cable assembly
5. ASSEMBLY: Multiple conductor cables are assembled with suitable fillers and binder tape
6. INNER JACKET: Polyvinyl Chloride (PVC)
7. ARMOR: Aluminum or galvanized steel interlocking armor
8. OUTER JACKET: Polyvinyl Chloride (PVC) heat-, flame- and moisture-resistant jacket, rated -40°C, the standard color is black but colored jackets are available on request
9. STANDARDS: The cable is certified to CSA C22.2 No. 131 for Type Teck 90 and No. 174 for use in CSA Class 1, Division 1 hazardous locations (CSA HL rated). Cable passes IEEE 1202/FT4 vertical tray flame test
10. AMPACITY: Based on 90°C column of Table 2 of the 2009 Canadian Electric Code, allowable ampacities for not more than 3 copper conductors in raceway or cable based on 30°C ambient temperature
11. TEMPERATURE: -40°C to 90°C
12. VOLTAGE: 1 kV

APPLICATIONS

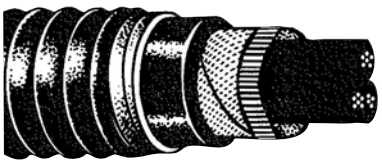
For exposed or concealed wiring in wet or dry locations. For use in ventilated, non-ventilated and ladder type cable troughs and ventilated flexible cableway in wet or dry locations. For direct earth burial.

Anixter No.	Conductor Size AWG/kcmil	Ground Wire Size AWG	Nominal Diameter Inner Jacket (in.)	Nominal Diameter Armor (in.)	Nominal Diameter Outer Jacket (in.)	Approx. Wt. Aluminum Armor lb./1,000 ft.	Approx. Wt. Steel Armor lb./1,000 ft.	Amps per Conductor
7TJ-1402	14	14	0.44	0.64	0.74	230	370	15
7TJ-1202	12	14	0.48	0.68	0.78	260	410	20
7TJ-1002	10	12	0.53	0.73	0.83	340	500	3
7TJ-0802	8	10	0.62	0.82	0.92	420	590	45
7TJ-0602	6	8	0.77	0.97	1.07	600	880	65
7TJ-0402	4	8	0.89	1.09	1.20	790	1,100	85
7TJ-0302	3	6	0.95	1.15	1.26	910	1,250	105
7TJ-0202	2	6	1.01	1.21	1.32	1,040	1,400	120
7TJ-0102	1	6	1.16	1.36	1.47	1,250	1,650	140
7TJ-1012	1/0	6	1.27	1.47	1.59	1,490	1,930	155
7TJ-2022	2/0	6	1.28	1.50	1.60	2,004	2,200	185
7TJ-3032	3/0	4	1.38	1.60	1.71	2,412	2,620	210
7TJ-4042	4/0	4	1.48	1.70	1.82	2,786	3,007	235
7TJ-2502	250	4	1.62	1.87	1.98	3,350	3,601	265
7TJ-3002	300	4	1.79	2.04	2.16	3,900	4,181	295
7TJ-3502	350	3	1.88	2.13	2.25	4,323	4,617	325
7TJ-4002	400	3	1.96	2.21	2.33	4,725	5,037	345
7TJ-5002	500	2	2.13	2.38	2.50	5,625	5,970	395
7TJ-6002	600	2	2.362	2.61	2.76	6,535	6,953	455
7TJ-7502	750	2	2.57	2.82	2.97	7,725	8,177	500

After part number use; "SJ" for steel, "AJ" for aluminum, (e.g. 7TJ-1012AJ, 7TJ-3502AJ).
Diameters and weights may vary among manufacturers.

Teck 90 (CSA)

1 kV Three Conductor



Galvanized steel or interlocked aluminum armor

XLP insulation

Inner and outer PVC jackets

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, soft copper
2. INSULATION: Cross-Linked Polyethylene (XLP)
3. COLOR CODING: Surface color coding is standard for sizes up to and including AWG #6, for larger sizes number coding is standard
4. GROUNDING CONDUCTOR: An uninsulated Class B stranded grounding conductor is included in the cable assembly
5. ASSEMBLY: Multiple conductor cables are assembled with suitable fillers and binder tape
6. INNER JACKET: Polyvinyl Chloride (PVC)
7. ARMOR: Aluminum or galvanized steel interlocking armor
8. OUTER JACKET: Polyvinyl Chloride (PVC) heat-, flame- and moisture-resistant jacket, rated -40°C, the standard color is black but colored jackets will be provided on request
9. STANDARDS: The cable is certified to CSA C22.2 No. 131 Teck 90 cable and No. 174 for use in CSA Class 1, Division 1 hazardous locations (CSA HL rated) and passes the FT4 vertical tray flame test
10. AMPACITY: Based on 90°C column of Table 2 of the 2009 Canadian Electric Code, allowable ampacities for not more than 3 copper conductors in raceway or cable based on 30°C ambient temperature
11. TEMPERATURE: -40°C to 90°C
12. VOLTAGE: 1 kV

APPLICATIONS

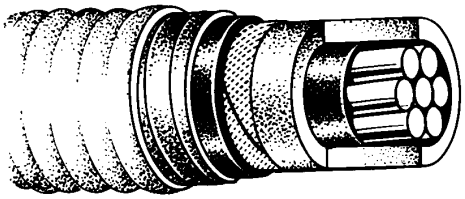
For exposed or concealed wiring in wet or dry locations. For use in ventilated, non-ventilated and ladder type cable troughs and ventilated flexible cableway in wet or dry locations. For direct earth burial.

Anixter No.	Conductor Size AWG/kcmil	Ground Wire Size AWG	Nominal Diameter Inner Jacket (in.)	Nominal Diameter Armor (in.)	Nominal Diameter Outer Jacket (in.)	Approx. Wt. Aluminum Armor lb./1,000 ft.	Approx. Wt. Steel Armor lb./1,000 ft.	Amps per Conductor
7TK-1403	14	14	0.45	0.65	0.76	230	370	15
7TK-1203	12	14	0.48	0.68	0.78	260	410	20
7TK-1003	10	12	0.53	0.73	0.83	340	500	30
7TK-0803	8	10	0.62	0.82	0.92	420	590	45
7TK-0603	6	8	0.77	0.97	1.07	600	880	65
7TK-0403	4	8	0.89	1.09	1.20	790	1,100	85
7TK-0303	3	6	0.95	1.15	1.26	910	1,250	105
7TK-0203	2	6	1.01	1.21	1.32	1,040	1,400	120
7TK-0103	1	6	1.16	1.36	1.47	1,250	1,650	140
7TK-1013	1/0	6	1.27	1.47	1.59	1,490	1,930	155
7TK-2023	2/0	6	1.28	1.50	1.60	2,004	2,200	185
7TK-3033	3/0	4	1.38	1.60	1.71	2,412	2,620	210
7TK-4043	4/0	4	1.48	1.70	1.82	2,786	3,007	235
7TK-2503	250	4	1.62	1.87	1.98	3,350	3,601	265
7TK-3003	300	4	1.79	2.04	2.16	3,900	4,181	295
7TK-3503	350	3	1.88	2.13	2.25	4,323	4,617	325
7TK-4003	400	3	1.96	2.21	2.33	4,725	5,037	345
7TK-5003	500	2	2.13	2.38	2.50	5,625	5,970	395
7TK-6003	600	2	2.362	2.61	2.76	6,535	6,953	455
7TK-7503	750	2	2.57	2.82	2.97	7,725	8,177	500
7TK-10003	1000	1	2.96	3.21	3.36	9,664	10,181	585

After part number use; "SJ" for steel, "AJ" for aluminum, (e.g. 7TK-1013AJ).
Diameters and weights may vary among manufacturers.

Teck 90 (CSA)

5 kV Single Conductor Nonshielded



Aluminum interlocked armor
XLP insulation
Inner and outer PVC jackets
100% or 133% insulation level

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, soft copper
2. CONDUCTOR SHIELD: Cables have a semiconducting shield over the conductor
3. INSULATION: Cross-Linked Polyethylene (XLP), 90 mils insulation thickness
4. GROUNDING CONDUCTOR: Composed of individual wires applied helically over the insulation
5. INNER JACKET: Polyvinyl Chloride (PVC)
6. ARMOR: Aluminum-interlocking armor (for single conductor cables for use in AC circuits only aluminum armor is provided and non-magnetic [aluminum] connectors and lock nuts must be used)
7. OUTER JACKET: Polyvinyl Chloride (PVC) heat-, flame- and moisture-resistant jacket, rated -40°C, the standard color is orange but colored jackets are available on request
8. STANDARDS: The cable is certified to CSA C22.2 No. 131 and No. 174 for use in CSA Class 1, Division 1, hazardous locations (CSA HL rated) and passes the FT4 vertical tray flame test
9. AMPACITY: Based on 90°C column of Table 1 of the 2009 Canadian Electric Code, allowable ampacities for single copper conductors in free air based on 30°C ambient temperature
10. TEMPERATURE: -40°C to 90°C
11. VOLTAGE: 5 kV

APPLICATIONS

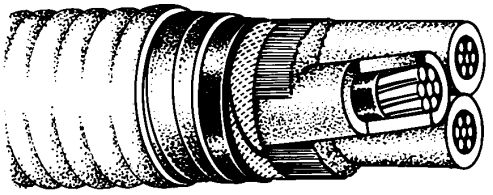
For exposed or concealed wiring in wet or dry locations. For use in ventilated, non-ventilated and ladder type cable troughs and ventilated flexible cableway in wet or dry locations. For direct earth burial.

Anixter No.	Conductor Size AWG/kcmil	Ground Wire Size AWG	Nominal Diameter Inner Jacket (in.)	Nominal Diameter Armor (in.)	Nominal Diameter Outer Jacket (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
7TM-0601AJ	6	8	0.54	0.70	0.79	288	100
7TM-0401AJ	4	6	0.62	0.78	0.87	404	135
7TM-0201AJ	2	6	0.67	0.83	0.93	500	180
7TM-0101AJ	1	4	0.73	0.89	0.99	654	210
7TM-1011AJ	1/0	5	0.77	0.99	1.09	783	245
7TM-2021AJ	2/0	4	0.81	1.03	1.12	883	285
7TM-3031AJ	3/0	3	0.86	1.08	1.17	1,010	330
7TM-4041AJ	4/0	3	0.94	1.16	1.26	1,196	385
7TM-2501AJ	250	2	1.03	1.25	1.35	1,459	425
7TM-3001AJ	300	2	1.09	1.31	1.40	1,637	480
7TM-3501AJ	350	1	1.13	1.35	1.45	1,813	530
7TM-4001AJ	400	1	1.18	1.40	1.49	1,969	575
7TM-5001AJ	500	1/0	1.26	1.48	1.58	2,391	660
7TM-6001AJ	600	1/0	1.39	1.61	1.73	2,799	740
7TM-7501AJ	750	2/0	1.50	1.72	1.83	3,385	845
7TM-10001AJ	1000	2/0	1.66	1.91	2.03	4,311	1,000

Note: Shielded cable available.
Diameters and weights may vary among manufacturers.

Teck 90 (CSA)

5 kV Three Conductor Nonshielded



Galvanized steel or interlocked aluminum armor
Nonshielded
XLP insulation
Inner and outer PVC jackets
100% or 133% insulation level

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, soft copper
2. CONDUCTOR SHIELD: Cables have a semiconducting shield over the conductor
3. INSULATION: Cross-Linked Polyethylene (XLP), 90 mils insulation thickness
4. GROUNDING CONDUCTOR: An uninsulated Class B stranded grounding conductor is included in the cable assembly with suitable fillers
5. INNER JACKET: Polyvinyl Chloride (PVC)
6. ARMOR: Aluminum or galvanized steel interlocking armor
7. OUTER JACKET: Polyvinyl Chloride (PVC) heat-, flame- and moisture-resistant jacket, rated -40°C, the standard color is orange but colored jackets will be provided upon request
8. STANDARDS: The cable is certified to CSA C22.2 No. 131 Teck 90 cable and No. 174 for use in CSA Class 1, Division 1 hazardous locations (CSA HL rated) and passes the FT4 vertical tray flame test
9. AMPACITY: Based on 90°C column of Table 2 of the 2009 Canadian Electric Code, allowable ampacities for not more than 3 copper conductors in raceway or cable based on 30°C ambient temperature
10. TEMPERATURE: -40°C to 90°C
11. VOLTAGE: 5 kV

APPLICATIONS

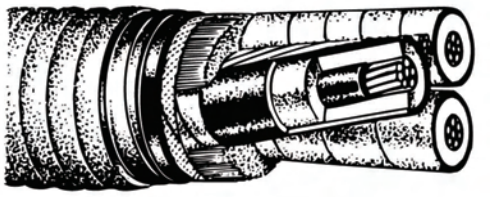
For exposed or concealed wiring in wet or dry locations. For use in ventilated, non-ventilated and ladder type cable troughs and ventilated flexible cableway in wet or dry locations. For direct earth burial.

Anixter No.	Conductor Size AWG/kcmil	Ground Wire Size AWG	Nominal Diameter Inner Jacket (in.)	Nominal Diameter Armor (in.)	Nominal Diameter Outer Jacket (in.)	Approx. Wt. Aluminum Armor lb./1,000 ft.	Approx. Wt. Steel Armor lb./1,000 ft.	Amps per Conductor
7TN-0803	8	10	0.94	1.14	1.23	730	1,080	50
7TN-0603	6	8	1.02	1.22	1.31	890	1,240	70
7TN-0403	4	8	1.12	1.32	1.40	1,100	1,500	90
7TN-0303	3	6	1.17	1.37	1.46	1,280	1,680	105
7TN-0203	2	6	1.24	1.44	1.52	1,440	1,740	120
7TN-0103	1	6	1.35	1.55	1.68	1,720	2,150	140
7TN-1013	1/0	6	1.43	1.63	1.76	1,980	2,500	155
7TN-2023	2/0	6	1.51	1.76	1.89	2,400	3,000	185
7TN-3033	3/0	4	1.62	1.87	2.00	2,850	3,500	210
7TN-4043	4/0	2	1.79	2.04	2.18	3,500	4,300	235
7TN-2503	250	4	1.90	2.16	2.28	3,950	4,800	270
7TN-3003	300	4	2.02	2.28	2.40	4,500	5,400	300
7TN-3503	350	3	2.12	2.362	2.52	5,200	6,100	325
7TN-4003	400	3	2.20	2.46	2.62	5,800	6,700	360
7TN-5003	500	2	2.38	2.62	2.78	6,900	7,900	405
7TN-6003	600	2	2.56	2.80	2.96	8,000	9,100	455
7TN-7503	750	2	2.76	3.00	3.18	9,600	10,800	500
7TN-10003	1000	1	3.14	3.40	3.58	12,600	14,000	585

After part number use: "SJ" for steel, "AJ" for aluminum, (e.g. 7TN-4043AJ).
Diameters and weights may vary among manufacturers.

Teck 90 (CSA)

15 kV Three Conductor 100% Insulation Level



Galvanized steel or interlocked aluminum armor
Shielded
XLP insulation
Inner and outer PVC jackets
100% insulation level

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, soft copper
2. CONDUCTOR SHIELD: Cables have a semiconducting shield over the conductor
3. INSULATION: Cross-Linked Polyethylene (XLP), 175 mils insulation thickness
4. IDENTIFICATION: The insulated conductors are identified by means of a colored tape (black, red and blue) placed longitudinally immediately under the copper tape shield
5. INSULATION SHIELD: Consists of a semiconducting thermosetting layer plus an overlaying metallic component, in multiconductor cables the metallic component is a helically applied lapped copper tape
6. GROUNDING CONDUCTOR: An uninsulated Class B stranded grounding conductor is included in the cable assembly with suitable fillers
7. INNER JACKET: Polyvinyl Chloride (PVC)
8. ARMOR: Aluminum or galvanized steel interlocking armor
9. OUTER JACKET: Polyvinyl Chloride (PVC) heat-, flame- and moisture-resistant jacket, rated -40°C, the standard color is red but colored jackets are available on request
10. STANDARDS: The cable is certified to CSA C22.2 No. 131 and No. 174 for use in CSA Class 1, Division 1 hazardous locations (CSA HL rated) and CSA C68.3 and passes the FT4 vertical tray flame test
11. AMPACITY: Refer to IEEE 835-1994 tables for ampacity values, and the Canadian Electrical Code for correction factors
12. TEMPERATURE: -40°C to 90°C
13. VOLTAGE: 15 kV

APPLICATIONS

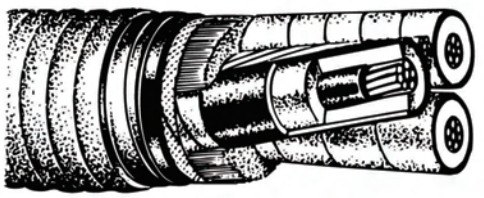
For exposed or concealed wiring in wet or dry locations. For use in ventilated, non-ventilated and ladder type cable troughs and ventilated flexible cableway in wet or dry locations. For direct earth burial.

Anixter No.	Conductor Size AWG/kcmil	Ground Wire Size AWG	Nominal Diameter Inner Jacket (in.)	Nominal Diameter Armor (in.)	Nominal Diameter Outer Jacket (in.)	Approx. Wt. Aluminum Armor lb./1,000 ft.	Approx. Wt. Steel Armor lb./1,000 ft.	3M Terminations
7TP-0203	2	6	1.84	2.09	2.19	2,400	3,250	034004
7TP-0103	1	6	1.91	2.16	2.26	2,650	3,500	034004
7TP-1013	1/0	6	2.00	2.26	2.34	3,950	3,850	034004
7TP-2023	2/0	6	2.10	2.34	2.45	3,400	4,350	037023
7TP-3033	3/0	4	2.20	2.46	2.56	3,900	4,900	037023
7TP-4043	4/0	4	2.32	2.56	2.67	4,450	5,500	037023
7TP-2503	250	4	2.42	2.66	2.80	4,950	6,000	037023
7TP-3003	300	4	2.52	2.78	2.92	5,600	6,700	037023
7TP-3503	350	3	2.62	2.88	3.02	6,200	7,300	037023
7TP-4003	400	3	2.72	2.96	3.12	6,800	7,900	037023
7TP-5003	500	2	2.94	3.20	3.34	8,200	9,500	037023
7TP-6003	600	2	3.14	3.40	3.65	9,400	10,800	037023
7TP-7503	750	2	3.34	3.60	3.87	12,000	12,400	057312
7TP-10003	1000	1	3.68	3.92	4.22	14,000	15,400	057312

After part number use; "SJ" for steel, "AJ" for aluminum, (e.g. 7TP-2023AJ).
Diameters and weights may vary among manufacturers.

Teck 90 (CSA)

15 kV Three Conductor 133% Insulation Level



Galvanized steel or interlocked aluminum armor
Shielded
XLP insulation
Inner and outer PVC jackets

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, bare, soft copper
2. CONDUCTOR SHIELD: Cables have a semiconducting shield over the conductor
3. INSULATION: Cross-Linked Polyethylene (XLP) 215 mils insulation thickness
4. IDENTIFICATION: The insulated conductors are identified by means of a colored tape (black, red and blue) placed longitudinally under the copper tape metallic shield
5. GROUNDING CONDUCTOR: An uninsulated Class B stranded grounding conductor is included in the cable assembly
6. ASSEMBLY: Multiple conductor cables are assembled with suitable fillers and binder tape
7. INNER JACKET: Polyvinyl Chloride (PVC) heat-, flame- and moisture-resistant jacket, rated -40°C
8. ARMOR: Aluminum or galvanized steel interlocking armor
9. OUTER JACKET: Polyvinyl Chloride (PVC) heat-, flame- and moisture-resistant jacket, rated -40°C, the standard color is black but colored jackets are available on request. Meets Ontario Hydro Spec. L-891 SM-77 flame test and FT4 vertical tray flame test
10. AMPACITY: Refer to IEEE 835-1994 tables for ampacity values, and the Canadian Electrical Code for correction factors
11. STANDARDS: The cable is certified to CSA C22.2 No. 131 and No. 174 for use in CSA Class 1, Division 1 hazardous locations (CSA HL rated) and CSA C68.3 and passes the FT4 vertical tray flame test
12. TEMPERATURE: -40°C to 90°C
13. VOLTAGE: 15 kV

APPLICATIONS

For exposed or concealed wiring in wet or dry locations. For use in ventilated, non-ventilated and ladder type cable troughs and ventilated flexible cableway in wet or dry locations. For direct earth burial.

Anixter No.	Conductor Size AWG/kcmil	Ground Wire Size AWG	Nominal Diameter Inner Jacket (in.)	Nominal Diameter Armor (in.)	Nominal Diameter Outer Jacket (in.)	Approx. Wt. Aluminum Armor lb./1,000 ft.	Approx. Wt. Steel Armor lb./1,000 ft.	3M Terminations
7TPU-0103	1	6	2.10	2.362	2.52	3,000	3,950	034004
7TPU-1013	1/0	6	2.18	2.44	2.60	3,800	4,250	034004
7TPU-2023	2/0	6	2.28	2.52	2.68	3,850	4,650	037023
7TPU-3033	3/0	4	2.38	2.62	2.78	4,200	5,300	037023
7TPU-4043	4/0	4	2.40	2.74	2.90	4,750	5,900	037023
7TPU-2503	250	4	2.60	2.84	3.00	5,300	7,700	037023
7TPU-3503	350	3	2.80	3.06	3.22	6,500	9,523	037023
7TPU-5003	500	2	3.12	3.38	3.56	8,500	9,900	037023
7TPU-7503	750	2	3.52	3.78	3.96	11,400	12,800	057312
7TPU-10003	1000	1	3.86	4.10	4.30	14,200	15,800	057312

After part number use; "SJ" for steel, "AJ" for aluminum, (e.g. 7TPU-3033AJ).
Diameters and weights may vary among manufacturers.

AirGuard

AirGuard 600 V

PRYSMIAN CABLES & SYSTEMS

XLP insulation

High-strength Airbag layer

PVC jacket

SPECIFICATIONS

1. CONDUCTOR: Class B Compact concentric strand soft-drawn annealed copper per ASTM
2. INSULATION: High dielectric strength Cross-Linked Polyethylene (XLP) insulation to ICEA S-95-658/NEMA WC70 and UL 44 Type XHHW-2
3. GROUNDING CONDUCTORS: Bare stranded copper conductor, one in each interstice, per UL, ICEA and ASTM
4. ASSEMBLY: Phase identified conductors cabled with fillers and grounding conductor per specification, forming a firm and cylindrical cable core
5. MECHANICAL PROTECTION: High-strength and high-crush-resistant Airbag layer extruded over the core assembly
6. JACKET: Sunlight-resistant Polyvinyl Chloride (PVC) jacket
7. STANDARDS: Listed Type XHHW-2 singles. Passes the IEEE 1202/FT4 (70,000 Btu/hr) and ICEA T-29-520 (210,000 Btu/hr) flame tests
8. AMPACITY: Based on ambient temperature of 30°C (86°F) and 90°C conductor rating per NEC Table 310.16 for not more than three current carrying conductors in raceway, cable, or earth
9. TEMPERATURE: 90°C
10. VOLTAGE: 600 V

APPLICATIONS

For installation in wet and dry locations in accordance with NEC. May be directly buried or embedded in concrete. For installation on cable trays, troughs, metal racks, aerial installation and continuous rigid cable supports in accordance with NEC. Suitable for variable frequency drive applications (VFD). Suitable for vertical riser applications. Suitable for Class 1, Division 2 locations.

AIRGUARD 600 V

600 V, three conductor type TC cable (XHHW-2)

Anixter No.	Conductor Size AWG/kcmil	No. of Conductors	Ground Wires No. x AWG	Conductor Dia (in.)	Insulation Thickness (in.)	Nominal Insul. Diam. (in.)	Nominal Diameter Outer Jacket (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3AR-0803	8	3	3 x 14	0.141	0.045	0.240	0.810	529	55
3AR-0603	6	3	3 x 12	0.178	0.045	0.280	0.940	748	75
3AR-0403	4	3	3 x 12	0.225	0.045	0.330	1.040	968	95
3AR-0203	2	3	3 x 10	0.283	0.045	0.380	1.180	1,340	130
3AR-0103	1	3	3 x 10	0.322	0.055	0.440	1.32	1,640	150
3AR-1013	1/0	3	3 x 10	0.361	0.055	0.480	1.41	1,918	170
3AR-2023	2/0	3	3 x 10	0.418	0.055	0.530	1.52	2,292	195
3AR-4043	4/0	3	3 x 8	0.512	0.055	0.630	1.83	3,450	260
3AR-2503	250	3	3 x 8	0.558	0.065	0.700	1.98	4,024	290
3AR-3503	350	3	3 x 7	0.661	0.065	0.800	2.220	5,312	350
3AR-5003	500	3	3 x 6	0.789	0.065	0.930	2.530	7,194	430

AirGuard 5 kV

PRYSMIAN CABLES & SYSTEMS

EPR insulation

High-strength Airbag layer over core

PVC jacket

SPECIFICATIONS

1. CONDUCTOR: Class B Compact concentric strand soft-drawn annealed copper per ASTM
2. CONDUCTOR SHIELD: Extruded thermosetting semiconducting shield which is free stripping from the conductor and bonded to the insulation
3. INSULATION: Natural high dielectric strength EPROTENAX EPR-based insulation, combined with other materials and agents that enhance the electrical and mechanical characteristics assuring extended cable life
4. METALLIC SHIELD: Helically applied non-magnetic copper tape(s) over insulation shield with a minimum overlap of 15%. An aluminum/polyester ribbon is longitudinally applied under the copper tape shield for phase identification - one conductor with red, one conductor with blue, and one conductor with black
5. GROUNDING CONDUCTORS: Bare stranded copper conductor, one in each interstice, per UL, ICEA and ASTM
6. ASSEMBLY: Phase identified shielded conductors cabled with fillers and grounding conductor (as specified), forming a firm and cylindrical cable core. A binder tape is applied to maintain core symmetry and mechanical stability
7. MECHANICAL PROTECTION: High-strength and high-crush-resistant Airbag layer extruded cover the core assembly
8. CHEMICAL PROTECTION: A layer of Drylam which consists of aluminum tape and a chemical-resistant extruded polymer layer is applied
9. JACKET: Sunlight-resistant Polyvinyl Chloride (PVC) jacket
10. STANDARDS: Listed Type MV-105 per UL 1072 and MSHA Type MP, meets ICEA S-93-639 (WC74) requirements. Identified for CT use. Cable passes IEEE 1202/FT4 (70,000 Btu/hr) and ICEA T-29-520 (210,000 Btu/hr) flame tests
11. AMPACITY: Based on an ambient temperature of 40°C, cable isolated in air per 2008 NEC table 310.71
12. TEMPERATURE: 105°C
13. VOLTAGE: 5 kV

APPLICATIONS

For installations in both exposed and concealed locations in accordance with NEC. For installation in wet and dry locations in accordance with NEC. May be directly buried or embedded in concrete. For installation on cable trays, troughs, metal racks, aerial installation and continuous rigid cable supports in accordance with NEC. Suitable for vertical riser. Suitable for Class I Division 2 locations.

AIRGUARD 5 KV/8 KV UL TYPE MV-105

Anixter No.	Conductor Size AWG/kcmil	No. of Conductors	Ground Wires No. x AWG	Conductor Dia (in.)	Insulation Thickness (in.)	Nominal Insul. Diam. (in.)	Nominal Diameter Outer Jacket (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3AE-0203	2	3	3 x 10	0.269	0.115	0.540	1.790	2,089	154
3AE-1013	1/0	3	3 x 8	0.338	0.115	0.620	2.020	2,916	205
3AE-2023	2/0	3	3 x 8	0.379	0.115	0.650	2.090	3,226	240
3AE-4043	4/0	3	3 x 7	0.480	0.115	0.760	2.300	4,292	320
3AE-3503	350	3	3 x 6	0.622	0.115	0.910	2.630	6,156	440
3AE-5003	500	3	3 x 5	0.742	0.115	1.030	2.950	8,229	545

AirGuard

AirGuard 15 kV

PRYSMIAN CABLES & SYSTEMS

EPR insulation

High strength Airbag layer

PVC jacket

SPECIFICATIONS

1. CONDUCTOR: Class B Compact concentric strand soft drawn annealed copper per ASTM
2. CONDUCTOR SHIELD: Extruded thermosetting semiconducting shield which is free stripping from the conductor and bonded to the insulation
3. INSULATION: Natural high dielectric strength EPROTENAX EPR-based insulation, combined with other materials and agents that enhance the electrical and mechanical characteristics assuring extended cable life
4. METALLIC SHIELD: Helically applied non-magnetic copper tape(s) over insulation shield with a minimum overlap of 15%. A aluminum/polyester ribbon is longitudinally applied under the copper tape shield for phase identification - one conductor with red, one conductor with blue, and one conductor with black
5. GROUNDING CONDUCTORS: Bare stranded copper conductor, one in each interstice, per UL, ICEA and ASTM
6. ASSEMBLY: Phase identified shielded conductors cabled with fillers and grounding conductor (as specified), forming a firm and cylindrical cable core. A binder tape is applied to maintain core symmetry and mechanical stability
7. MECHANICAL PROTECTION: High-strength and high-crush-resistant Airbag layer extruded cover the core assembly
8. CHEMICAL PROTECTION: A layer of Drylam which consists of aluminum tape and a chemical-resistant extruded polymer layer is applied
9. JACKET: Sunlight-resistant Polyvinyl Chloride (PVC) jacket
10. STANDARDS: Listed Type MV-105 per UL 1072 and MSHA Type MP, meets ICEA S-93-639 (WC74) requirements. Identified for CT use. Cable passes IEEE 1202/FT4 (70,000 Btu/hr) and ICEA T-29-520 (210,000 Btu/hr) flame tests
11. AMPACITY: Based on an ambient temperature of 40°C, cable isolated in air per 2008 NEC table 310.71
12. TEMPERATURE: 105°C
13. VOLTAGE: 15 kV

APPLICATIONS

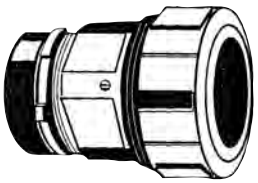
For installations in both exposed and concealed locations in accordance with NEC. For installation in wet and dry locations in accordance with NEC. May be directly buried or embedded in concrete. For installation on cable trays, troughs, metal racks, aerial installation and continuous rigid cable supports in accordance with NEC. Suitable for vertical riser applications. Suitable for Class I Division 2 locations.

AIRGUARD 15 KV, UL TYPE MV-105

Anixter No.	Conductor Size AWG/kcmil	No. of Conductors	Ground Wires No. x AWG	Conductor Dia (in.)	Insulation Thickness (in.)	Nominal Insul. Diam. (in.)	Nominal Diameter Outer Jacket (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3AG-0203	2	3	3 x 10	0.269	0.220	0.740	2.210	3,210	185
3AG-1013	1/0	3	3 x 8	0.338	0.220	0.806	2.360	3,895	240
3AG-2023	2/0	3	3 x 8	0.379	0.220	0.845	2.450	4,346	275
3AG-4043	4/0	3	3 x 7	0.480	0.220	0.945	2.730	5,710	360
3AG-3503	350	3	3 x 6	0.622	0.220	1.095	3.180	8,710	490
3AG-5003	500	3	3 x 5	0.742	0.220	1.215	3.440	9,490	600
3AG-7503	750	3	3 x 4	0.913	0.220	1.400	3.830	10,450	745

JAG - Armored Cable Fittings

ADALET-PLM
Type JAG (Jacketed, Armored, Gasketed)
Termination fittings



SPECIFICATIONS

1. Made from copper-free aluminum alloy
2. Thick neoprene bushing allows for weatherproof installation
3. Slip-on installation with no disassembly required
4. Locknuts, bushing and flange gasket included
5. UL Listed, CSA Certified
6. Cable range: 0.35 in. to 4.62 in. O.D.

APPLICATIONS

Designed for use with interlocked or continuously welded corrugated armor cables with a jacket over the armor. Used to connect metal-clad cable to junction enclosures, motors or for termination of branch circuits, etc.

Anixter No.	Vendor No.	Dim. A Diameter over Jacket Min. (in.)	Dim. B Max. Cable Core Diameter (in.)	Conduit Size (in.)	Fitting O.D. (in.)	Length Overall (in.)	Ship Wt. lb.
7J-JAG45-05	JAG45-05	0.35	0.61	0.50	1.63	2.25	0.25
7J-JAG55-05	JAG55-05	0.45	0.61	0.50	1.63	2.25	0.25
7J-JAG65-05	JAG65-05	0.55	0.61	0.50	1.63	2.25	0.25
7J-JAG75-05	JAG75-05	0.65	0.61	0.50	1.63	2.25	0.25
7J-JAG85-05	JAG85-05	0.75	0.61	0.50	1.63	2.25	0.25
7J-JAG95-05	JAG95-05	0.85	0.61	0.50	1.63	2.25	0.25
7J-JAG99-07	JAG99-07	0.85	0.81	0.75	2.00	2.63	0.33
7J-JAG107-07	JAG107-07	0.92	0.81	0.75	2.00	2.63	0.33
7J-JAG113-07	JAG113-07	0.98	0.81	0.75	2.00	2.63	0.33
7J-JAG121-07	JAG121-07	1.07	0.81	0.75	2.00	2.63	0.33
7J-JAG112-10	JAG112-10	1.00	1.00	1.00	2.37	3.06	0.50
7J-JAG125-10	JAG125-10	1.12	1.00	1.00	2.37	3.06	0.50
7J-JAG138-10	JAG138-10	1.22	1.00	1.00	2.37	3.06	0.50
7J-JAG138-12	JAG138-12	1.28	1.25	1.25	2.87	3.37	0.66
7J-JAG156-12	JAG156-12	1.38	1.25	1.25	2.87	3.37	0.66
7J-JAG174-12	JAG174-12	1.56	1.25	1.25	2.87	3.37	0.66
7J-JAG188-12	JAG188-12	1.74	1.25	1.25	2.87	3.37	0.66
7J-JAG174-15	JAG174-15	1.60	1.63	1.50	3.25	4.06	1.00
7J-JAG188-15	JAG188-15	1.74	1.63	1.50	3.25	4.06	1.00
7J-JAG200-15	JAG200-15	1.88	1.63	1.50	3.25	4.06	1.00
7J-JAG218-15	JAG218-15	2.00	1.63	1.50	3.25	4.06	1.00
7J-JAG219-20	JAG219-20	2.05	2.09	2.00	4.00	4.31	1.50
7J-JAG236-20	JAG236-20	2.19	2.09	2.00	4.00	4.31	1.50
7J-JAG247-20	JAG247-20	2.35	2.09	2.00	4.00	4.31	1.50
7J-JAG261-20	JAG261-20	2.47	2.09	2.00	4.00	4.31	1.50
7J-JAG263-25	JAG263-25	2.46	2.49	2.50	4.71	5.44	2.50
7J-JAG280-25	JAG280-25	2.62	2.49	2.50	4.71	5.44	2.50
7J-JAG296-25	JAG296-25	2.80	2.49	2.50	4.71	5.44	2.50
7J-JAG297-30	JAG297-30	2.80	3.11	3.00	5.09	5.75	3.00
7J-JAG311-30	JAG311-30	2.95	3.11	3.00	5.09	5.75	3.00
7J-JAG327-30	JAG327-30	3.10	3.11	3.00	5.09	5.75	3.00
7J-JAG343-30	JAG343-30	3.26	3.11	3.00	5.09	5.75	3.00
7J-JAG359-30	JAG359-30	3.42	3.11	3.00	5.09	5.75	3.00
7J-JAG375-35	JAG375-35	3.52	3.61	3.50	5.68	5.81	3.25

To order: Determine satisfactory fit by checking cable dimensions A and B.
If cable dimensions do not fall within acceptable range, consult your local sales representative.

Continued on next page >>

Accessories

(continued) JAG - Armored Cable Fittings

Anixter No.	Vendor No.	Dim. A Diameter over Jacket Min. (in.)	Dim. B Max. Cable Core Diameter (in.)	Conduit Size (in.)	Fitting O.D. (in.)	Length Overall (in.)	Ship Wt. lb.
7J-JAG392-35	JAG392-35	3.75	3.61	3.50	5.68	5.81	3.25
7J-JAG412-35	JAG412-35	3.90	3.61	3.50	5.68	5.81	3.25
7J-JAG423-40	JAG423-40	4.05	4.11	4.00	6.09	5.81	3.50
7J-JAG437-40	JAG437-40	4.20	4.11	4.00	6.09	5.81	3.50
7J-JAG451-40	JAG451-40	4.34	4.11	4.00	6.09	5.81	3.50
7J-JAG462-40	JAG462-40	4.43	4.11	4.00	6.09	5.81	3.50

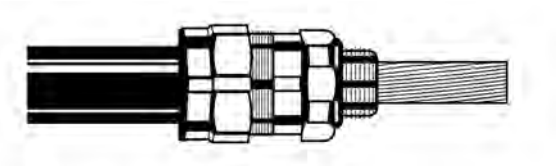
To order: Determine satisfactory fit by checking cable dimensions A and B.
If cable dimensions do not fall within acceptable range, consult your local sales representative.

Accessories

Metal-clad Fittings

T&B

Star Teck Extreme



SPECIFICATIONS

1. Use where corrugated-jacket, metal-clad cable is exposed to intermittent or continuous moisture and is teminated into a threaded opening, the connector is a watertight type furnished with:
   a.) An elastomeric beveled bushing or bushings
   b.) A funnel entry, splined gland nut
   c.) A non-magnetic stainless steel or bronze with nickel plate grounding device with dual grounding fingers
   d.) A taper threaded hub
   e.) A hexagonal body and gland nut
2. A synthetic rubber sealing device is captivated in a face groove providing optimized sealing even on irregular surfaces. This configuration also prevents over-compression of the seal
3. Aluminum connector for single-conductor cable and corrosive environments
4. For jacketed and nonjacketed interlocked armor cable provides external bonding/grounding teeth capable of penetrating surface finishes to contact enclosure base metal
5. Incorporates an easily-removable armor-stop (not requiring fitting disassembly) ensuring proper positioning of the cable armor during cable termination

CERTIFICATIONS:

STE*	STEX**
Ordinary location	Ordinary location
Class I, Division 2	Class I, Division 2, Groups A, B, C, D
NEMA 4, 4X, 6P	Class II, Division 1, Groups E, F, G

* These fittings are suitable for Class I hazardous locations when used in combination with a certified Class I hazardous location sealing fitting.

** May be used in hazardous areas with approved MC type cable (or equal) when installed in accordance with NEC/CEC requirements.

APPLICATIONS

Metal-clad fittings for a broad range of jacketed and nonjacketed interlocked armor cable.
Available in hub sizes from 0.50 in. to 4.0 in. and will handle outer-jacket diameters from 0.525 in. to 4.340 in.
Approximate dimensions before installation.

MATERIAL DESCRIPTORS:

Aluminum is standard material. To specify other material, add the appropriate suffix to the Part No. (e.g. STE-050GR).
The body and gland nut on hub sizes 0.50 in. to 1 in. are made of steel and 1.25 in. to 4 in. are made of malleable iron.

Desired Material	Suffix
Aluminum fitting with ground locknut	GR
Steel with zinc plate	S
Brass with nickel plate	BN
Aluminum with PVC coating	PVC
Steel with PVC coating	S-PVC
Stainless steel	SS

Anixter No.	Hub Size (in.)	Diameter over Jacket Min. (in.)	Diameter over Jacket Max. (in.)	Diameter Over Armor Minimum (in.)	Diameter Over Armor Maximum (in.)	'B' in
7AC-STE050-462	0.50	0.525	0.650	0.415	0.570	2.020
7AC-STE050	0.50	0.600	0.985	0.520	0.895	2.520
7AC-STE075	0.75	0.860	1.205	0.780	1.125	2.840
7AC-STE100	1.00	0.950	1.375	0.870	1.295	3.020
7AC-STE125	1.25	1.150	1.625	0.990	1.465	4.010
7AC-STE150	1.50	1.440	1.965	1.280	1.805	4.290
7AC-STE200	2.00	1.825	2.375	1.665	2.215	4.120
7AC-STE250	2.50	2.265	2.840	2.105	2.680	-----
7AC-STE300	3.00	2.670	3.270	2.545	3.145	-----
7AC-STE350	3.50	3.220	3.870	3.090	3.710	-----
7AC-STE400	4.00	3.665	4.340	3.550	4.225	-----

Accessories

Armored Cable Fittings

Perfit - armored cable fittings

NON-HAZARDOUS LOCATIONS

Designed for indoor installations where a seal is required to protect against water spray, dust, corrosive elements, vibrations and other adverse conditions. The 360° contact between the connector and sheath virtually eliminates the possibility of cable pull-out and assures bonding of cable to enclosure.

Anixter No.	Vendor No.	Diameter Over Armor Minimum (in.)	Diameter Over Armor Maximum (in.)	Diameter over Jacket Min. (in.)	Diameter over Jacket Max. (in.)
144590	WTU-069-075	0.626	0.690	0.716	0.780
144591	WTU-076-075	0.691	0.750	0.781	0.830
144592	WTU-083-075	0.751	0.815	0.831	0.905
144593	WTU-090-075	0.816	0.915	0.906	1.005
144594	WTU-097-100	0.916	0.985	1.006	1.075
144595	WTU-104-100	0.986	1.070	1.076	1.160
144596	WTU-111-100	1.071	1.135	1.161	1.225
144597	WTU-118-100	1.136	1.180	1.226	1.270
144598	WTU-125-125	1.181	1.220	1.271	1.330
144599	WTU-132-125	1.221	1.330	1.331	1.440
144600	WTU-139-125	1.331	1.380	1.441	1.490
144601	WTU-148-150	1.381	1.470	1.491	1.580
144602	WTU-157-150	1.471	1.585	1.581	1.695
144603	WTU-166-150	1.586	1.660	1.696	1.770
144604	WTU-175-200	1.661	1.760	1.771	1.890
144605	WTU-184-200	1.761	1.880	1.891	2.010
144606	WTU-202-200	1.941	2.020	2.071	2.150
144607	WTU-224-250	2.081	2.200	2.241	2.360
144608	WTU-235-250	2.201	2.300	2.361	2.460
144609	WTU-246-250	2.301	2.420	2.461	2.580
144610	WTU-257-250	2.421	2.560	2.581	2.720
144611	WTU-271-300	2.561	2.710	2.721	2.870
144612	WTU-285-300	2.711	2.840	2.871	3.000
144613	WTU-299-300	2.841	2.970	3.001	3.130
144614	WTU-313-300	2.971	3.120	3.131	3.280
144615	WTU-328-350	3.121	3.270	3.281	3.470
144616	WTU-343-350	3.271	3.420	3.471	3.620
144617	WTU-358-350	3.421	3.570	3.621	3.770
144618	WTU-373-400	3.571	3.720	3.771	3.920

Accessories

HAZARDOUS LOCATIONS

Designed for installations where a seal is required to protect against water spray, dust, corrosive elements, vibrations and other hazardous conditions. The 360° contact between the connector and sheath virtually eliminates the possibility of cable pull-out and assures bonding of cable to enclosure. Pouring chamber on connector must be filled with flame-retardant compound. For NEC Class I (Div. 1 & 2), Class II (Div. 1 & 2) and Class III hazardous locations.

Anixter No.	Vendor No.	Diameter Over Armor Minimum (in.)	Diameter Over Armor Maximum (in.)	Diameter over Jacket Min. (in.)	Diameter over Jacket Max. (in.)
144619	WTUPC-069-075	0.626	0.690	0.716	0.780
144620	WTUPC-076-075	0.691	0.750	0.781	0.830
144621	WTUPC-083-075	0.751	0.815	0.831	0.905
144622	WTUPC-090-075	0.816	0.915	0.906	1.005
144623	WTUPC-097-100	0.916	0.985	1.006	1.075
144624	WTUPC-104-100	0.986	1.070	1.076	1.160
144625	WTUPC-111-100	1.071	1.135	1.161	1.225
144626	WTUPC-118-100	1.136	1.180	1.226	1.270
144627	WTUPC-125-125	1.181	1.220	1.271	1.330
144628	WTUPC-132-125	1.221	1.330	1.331	1.440
144629	WTUPC-139-125	1.331	1.380	1.441	1.490
144630	WTUPC-148-150	1.381	1.470	1.491	1.580
144631	WTUPC-157-150	1.471	1.585	1.581	1.695
144632	WTUPC-166-150	1.586	1.660	1.696	1.770
144633	WTUPC-175-200	1.661	1.760	1.771	1.890
144638	WTUPC-246-250	2.301	2.420	2.461	2.580
144639	WTUPC-257-250	2.421	2.560	2.581	2.720
144640	WTUPC-271-300	2.561	2.710	2.721	2.870
144641	WTUPC-285-300	2.711	2.840	2.871	3.000
144642	WTUPC-299-300	2.841	2.970	3.001	3.130
144643	WTUPC-313-300	2.971	3.120	3.131	3.280
144644	WTUPC-328-350	3.121	3.270	3.281	3.470
144645	WTUPC-343-350	3.271	3.420	3.471	3.620
144646	WTUPC-358-350	3.421	3.570	3.621	3.770
144647	WTUPC-373-400	3.571	3.720	3.771	3.920

Accessories

TMC Connector

CMP USA

FEATURES

- Integral '0' ring face seal providing - 4X and IP66
- Additional integral deluge-proof seal for protection in extreme offshore and onshore environments
- Independent sealing and armor clamping
- True 360° grounding
- Superior pull-out prevention
- Compact slim profile
- Reduced installation time (no disassembly required)
- Widest cable acceptance range
- Reusable design
- Only 13 gland sizes required
- Metric option available

Technical Information & Standards

Type	TMC	
Classification	NEC	Class II Div 1 & 2 Groups E, F, G
		Class III Div 1 & 2 - Class 1 Zone 1 AExe II
	CEC	Class II Div 1 & 2 Groups E, F, G
		Class III Div 1 & 2 - Class 1 Zone 1 Exe II
Compliance Code		UL Standard 514B, 886 - CSA Standard C22.2 No 18, 174 and IEC60079
Certification/Listings		UL Listing File: E163112 - CSA Certificate No: 1129339
Enclosure Types		NEMA 3, 4X and IP66
Connector Material		Copper-free aluminum (<0.4%)
		Nickel-plated brass, stainless steel
Cable Type		MC/MCHL - Corrugated/interlocked aluminum/steel armor and continuously welded armor cables, e.g. Teck or CLX

Notes:

1. Where explosion proof enclosures are being used - the TMC must be installed in conjunction with an approved pouring or compound sealing fitting. In Division 2 areas the TMC can be fitted directly to an enclosure which has no source of ignition in accordance with NEC/CEC requirements.
2. Connectors with NPT entry threads are suitable for both divisions and zones.
3. Connectors with metric entry threads are suitable for zones only unless fitted with an approved NPT male adapter in accordance with CEC requirements.
4. '0' ring face seal supplied as standard only with aluminum.

APPLICATIONS

The CMP TMC Connector range has been developed in response to the need for a rugged and reliable cable terminating solution with inherent ease of installation and maintenance. Designed for use with interlocked and continuously welded/corrugated armor cable. For use in both ordinary and hazardous (classified) locations.

ALUMINUM

Anixter No.	Vendor No.	Entry Thread NPT (in.)	Min. Thread Length (in.)	Armor Diameter End Stop In		Armor Diameter End Stop Out		Cable Jacket Diameter	
				Min. (in.)	Max. (in.)	Min. (in.)	Max. (in.)	Min. (in.)	Max. (in.)
TMC050A	TMC050A	1/2	0.590	-----	-----	0.510	0.669	0.550	0.787
TMC075A	TMC075A	3/4	0.590	0.591	0.756	0.756	0.917	0.669	1.035
TMC100A	TMC100A	1	0.630	0.825	0.969	0.969	1.150	0.910	1.268
TMC125A	TMC125A	1 1/4	0.630	1.083	1.228	1.228	1.386	1.161	1.504
TMC150A	TMC150A	1 1/2	0.630	1.320	1.461	1.461	1.618	1.402	1.736
TMC200A	TMC200A	2	0.630	1.772	1.933	1.933	2.087	1.858	2.205
TMC250A	TMC250A	2 1/2	0.900	2.247	2.406	2.406	2.545	2.327	2.677
TMC300A	TMC300A	3	0.980	2.543	2.776	2.776	2.965	2.622	3.126
TMC350A	TMC350A	3 1/2	1.437	2.913	3.291	3.291	3.485	2.992	3.827

Accessories

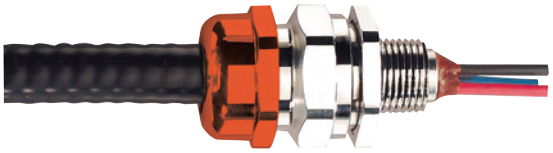
NP BRASS

Anixter No.	Vendor No.	Entry Thread NPT (in.)	Min. Thread Length (in.)	Armor Diameter End Stop In		Armor Diameter End Stop Out		Cable Jacket Diameter	
				Min. (in.)	Max. (in.)	Min. (in.)	Max. (in.)	Min. (in.)	Max. (in.)
TMC050NB	TMC050NB	1/2	0.590	-----	-----	0.510	0.669	0.550	0.787
TMC075NB	TMC075NB	3/4	0.590	0.591	0.756	0.756	0.917	0.669	1.035
TMC100NB	TMC100NB	1	0.630	0.825	0.969	0.969	1.150	0.910	1.268
TMC125NB	TMC125NB	1 1/4	0.630	1.083	1.228	1.228	1.386	1.161	1.504
TMC150NB	TMC150NB	1 1/2	0.630	1.320	1.461	1.461	1.618	1.402	1.736
TMC200SNB	TMC200SNB	2	0.630	1.508	1.677	1.677	1.854	1.579	2.008
TMC200NB	TMC200NB	2	0.630	1.772	1.933	1.933	2.087	1.858	2.205
TMC250NB	TMC250NB	2 1/2	0.900	2.247	2.406	2.406	2.545	2.327	2.677
TMC300NB	TMC300NB	3	0.980	2.543	2.776	2.776	2.965	2.622	3.126
TMC350NB	TMC350NB	3 1/2	1.437	2.913	3.291	3.291	3.485	2.992	3.827

Accessories

TMCX Connector

CMP USA



FEATURES

- Additional integral deluge-proof seal for protection in extreme offshore and onshore environments
- Independent sealing and armor clamping
- True 360° grounding
- Superior pull out prevention
- Compact slim profile
- Reduced installation time
- Widest cable acceptance range
- Supplied complete with epoxy sealing compound
- Disconnectable design

Technical Information & Standards

Type	TMCX	
Classification	NEC	Class I Div 1 & 2 Groups A, B, C, D
		Class II Div 1 & 2 Groups E, F, G
		Class III Div 1 & 2 - Class 1 Zone 1 AExd IIC
	CEC	Class I Div 1 & 2 Groups A, B, C, D
		Class II Div 1 & 2 Groups E, F, G
		Class III Div 1 & 2 - Class 1 Zone 1 Exd IIC
Compliance Code		UL Standard 514B, 886, 2225, 2279
		CSA Standard C22.2 No 18, 174 and IEC60079
Certification/Listings		UL Listing File: E161256 - CSA Certificate No: 1129339
Enclosure Types		NEMA 3, 4, 4X and IP66
Connector Material		Copper-free aluminum (<0.4%)
		Nickel-plated brass, stainless steel
Cable Type		MC/MCHL - Corrugated/interlocked aluminum/steel armor and continuously welded armor cables, e.g. Teck or CLX

Notes:

1) Connectors with NPT entry threads are suitable for both divisions and zones.

2) Connectors with metric entry threads are suitable for zones only unless fitted with an approved NPT male adapter in accordance with CEC requirements.

APPLICATIONS

The CMP TMCX Connector range has been designed for the termination of continuous corrugated and interlocked cables in hazardous locations. In these conditions it is necessary to provide a complete gas block and explosion proof seal to the cable. This design provides an easy, fast and safe method of installation and has many notable features.

ALUMINIUM

		Entry Thread		Min. Thread	Armor Diameter End Stop In		Armor Diameter End Stop Out		Cable Jacket Diameter	
Anixter No.	Vendor No.	NPT (in.)	Metric	Length (in.)	Min. (in.)	Max. (in.)	Min. (in.)	Max. (in.)	Min. (in.)	Max. (in.)
TMCX050A	TMCX050A	1/2	M20	0.590	-----	-----	0.510	0.669	0.550	0.787
TMCX075A	TMCX075A	3/4	M25	0.590	0.591	0.756	0.756	0.917	0.669	1.035
TMCX100A	TMCX100A	1	M32	0.630	0.825	0.969	0.969	1.150	0.910	1.268
TMCX125A	TMCX125A	1 1/4	M40	0.630	1.083	1.228	1.228	1.386	1.161	1.504
TMCX150A	TMCX150A	1 1/2	M50	0.630	1.320	1.461	1.461	1.618	1.402	1.736
TMCX200A	TMCX200A	2	M63	0.630	1.508	1.933	1.933	2.087	1.858	2.205
TMCX250A	TMCX250A	2 1/2	M75	0.900	2.247	2.406	2.406	2.545	2.327	2.677
TMCX300A	TMCX300A	3	M90	0.980	2.543	2.776	2.776	2.965	2.622	3.126
TMCX350A	TMCX350A	3 1/2	M100	1.437	2.913	3.291	3.291	3.485	2.992	3.827

Accessories

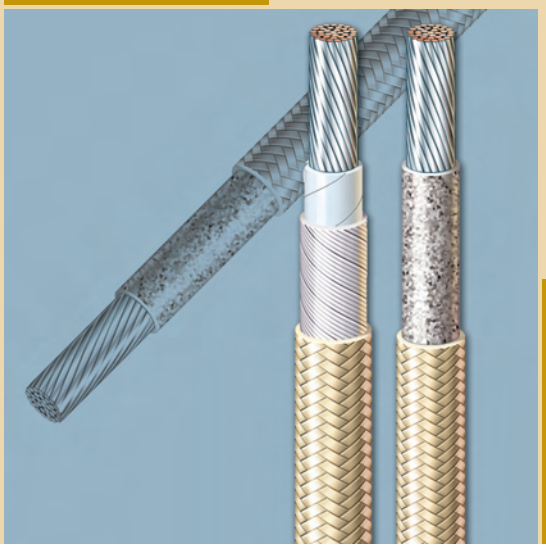
NP BRASS

Anixter No.	Vendor No.	Entry Thread NPT (in.)	Entry Thread Metric	Min. Thread Length (in.)	Armor Diameter End Stop In Min. (in.)	Armor Diameter End Stop In Max. (in.)	Armor Diameter End Stop Out Min. (in.)	Armor Diameter End Stop Out Max. (in.)	Cable Jacket Diameter Min. (in.)	Cable Jacket Diameter Max. (in.)
TMCX050NB	TMCX050NB	1/2	M20	0.590	-----	-----	0.510	0.669	0.550	0.787
TMCX075NB	TMCX075NB	3/4	M25	0.590	0.591	0.756	0.756	0.917	0.669	1.035
TMCX100NB	TMCX100NB	1	M32	0.630	0.825	0.969	0.969	1.150	0.910	1.268
TMCX125NB	TMCX125NB	1 1/4	M40	0.630	1.083	1.228	1.228	1.386	1.161	1.504
TMCX150NB	TMCX150NB	1 1/2	M50	0.630	1.320	1.461	1.461	1.618	1.402	1.736
TMCX200NB	TMCX200NB	2	M63	0.630	1.772	1.933	1.933	2.087	1.858	2.205
TMCX250NB	TMCX250NB	2 1/2	M75	0.900	2.247	2.406	2.406	2.545	2.327	2.677
TMCX300NB	TMCX300NB	3	M90	0.980	2.543	2.776	2.776	2.965	2.622	3.126
TMCX350NB	TMCX350NB	3 1/2	M100	1.437	2.913	3.291	3.291	3.485	2.992	3.827

Solutions for Commercial Rooftop Solar Applications

1. **PV wire:** Used to interconnect solar panels; most commonly 10–14 AWG (Type PV Listed, UL 4703)
2. **Collector cable:** Typically RHW-2 copper or aluminum in a variety of AWG
3. **Combiner boxes:** Combines output of multiple PV panels into a single collector cable
4. **Fuses/fuse holders:** Protects panels from damage due to electrical failures
5. **Edge clips and cable ties:** UV-stabilized products, specially designed for solar applications
6. **Conduit cable tray:** Protects and routes cable
7. **Roof blocks:** Supports panel structure while protecting roof surface
8. **Grounding:** Maintains safe ground plane throughout solar generating system

14



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Radix™

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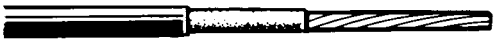
Harbour INDUSTRIES CANADA LTD.
High Performance Wire & Cable

MARMON A Marmon Wire & Cable/Berkshire Hathaway Company

125°C (257°F)

EPDM (600 V)

EPDM insulation
600 V
UL 3284



SPECIFICATIONS

1. CONDUCTOR: Annealed, tinned copper
2. INSULATION: Ethylene Propylene Diene Monomer (EPDM). Sizes 8 AWG and larger have a paper separator between the conductor and the insulation
3. STANDARDS: UL Listed AWM Style 3284, also CSA CL 1254
4. TEMPERATURE: 125°C
5. VOLTAGE: 600 V

APPLICATIONS

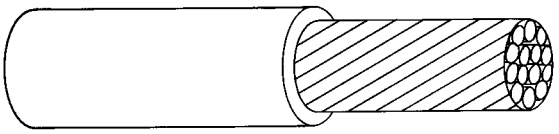
For use as motor leads and internal wiring of appliances such as refrigerating equipment, room cooler units and heat pumps. For use as transformer leads, ballasts, solenoids, etc.

Anixter No.	Conductor Size AWG	No. of Strands	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
5MF-1801-EPDM	18	16	0.047	0.140	13
5MF-1601-EPDM	16	26	0.047	0.154	18
5MF-1401-EPDM	14	41	0.047	0.169	24
5MF-1201-EPDM	12	65	0.047	0.188	34
5MF-1001-EPDM	10	105	0.063	0.241	55
5MF-0801-EPDM	8	133	0.078	0.330	93
5MF-0601-EPDM	6	133	0.078	0.380	134
5MF-0401-EPDM	4	133	0.078	0.441	192
5MF-0201-EPDM	2	266	0.078	0.496	279
5MF-0101-EPDM	1	817	0.093	0.563	351
5MF-1011-EPDM	1/0	1,045	0.093	0.610	430
5MF-2021-EPDM	2/0	1,330	0.093	0.654	532
5MF-3031-EPDM	3/0	1,672	0.093	0.714	643
5MF-4041-EPDM	4/0	2,109	0.093	0.780	811

All part numbers require color code designation.
See Color Code chart in the Technical Information Section.
Diameters and weights may vary among manufacturers.

Belden EPDM (600 V)

BELDEN
EPDM insulation/jacket
600 V
UL 3284, UL 3374; CSA 1254



SPECIFICATIONS

1. CONDUCTOR: Annealed, tinned copper
2. INSULATION: Ethylene Propylene Diene Monomer (EPDM). Sizes 8 AWG and larger have a paper separator between the conductor and the insulation
3. STANDARDS: UL 758 Listed. AWM Style 3284 and 3374. Also meets the requirements for CSA CL 1254
4. TEMPERATURE: 125°C flex, 150°C non-flex
5. VOLTAGE: 600 V

APPLICATIONS

For use as motor leads and internal wiring of appliances such as refrigerating equipment, room cooler units and heat pumps. For use as transformer leads, ballasts, solenoids, etc.

Anixter No.	Vendor No.	Conductor AWG	No. of Strands	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
5MF-1601-EPDMB-XX	37116	16	26	0.045	0.155	18
5MF-1401-EPDMB-XX	37114	14	41	0.045	0.170	24
5MF-1201-EPDMB-XX	37112	12	65	0.045	0.197	34
5MF-1001-EPDMB-XX	37110	10	65	0.060	0.252	55
5MF-0801-EPDMB-XX	37108	8	84	0.080	0.327	93
5MF-0601-EPDMB-XX	37106	6	84	0.080	0.383	134
5MF-0401-EPDMB-XX	37104	4	105	0.080	0.440	192
5MF-0201-EPDMB-XX	37102	2	163	0.080	0.494	279
5MF-0101-EPDMB-02	37101	1	210	0.095	0.583	376
5MF-1011-EPDMB-02	37190	1/0	266	0.095	0.633	447
5MF-2021-EPDMB-02	37100	2/0	504	0.095	0.698	557
5MF-3031-EPDMB-02	37130	3/0	660	0.095	0.758	692
5MF-4041-EPDMB-02	37140	4/0	805	0.095	0.847	895

All part numbers require color code designation.
See Color Code chart in the Technical Information Section.

150°C (302°F)

Silicone Rubber - Braidless (600 V)

Silicone rubber

600 V

UL AWM Styles 3212, 3213, 3214

SPECIFICATIONS

1. CONDUCTOR: Tinned, annealed copper per ASTM B-33
2. INSULATION: Silicone rubber
3. STANDARDS: UL 758 Listed. AWM Styles 3212 (18-10 AWG), Style 3213 (8-2 AWG) and Style 3214 (1 AWG-4/0)
4. TEMPERATURE: 150°C
5. VOLTAGE: 600 V

APPLICATIONS

For use in high-temperature environments as leads for motors, lighting fixtures, clothes dryers, electric ranges and other electrical devices.

Anixter No.	Conductor Size AWG	No. of Strands	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
8MB-1001	10	65	0.045	0.209	48
8MB-0801	8	133	0.060	0.283	82
8MB-0601	6	133	0.060	0.334	117
8MB-0401	4	133	0.060	0.390	176
8MB-0201	2	259	0.060	0.457	265
8MB-0101	1	259	0.080	0.540	326
8MB-1011	1/0	259	0.080	0.586	401
8MB-2011	2/0	259	0.080	0.639	496
8MB-3011	3/0	259	0.080	0.698	614
8MB-4041	4/0	259	0.080	0.765	802

All part numbers require color code designation.
See Color Code chart in Technical Information Section.
Diameters and weights may vary among manufacturers.

Belden Silicone Rubber - Glass Braid (600 V)

BELDEN

Silicone rubber insulation

Braided-glass jacket

600 V

UL AWM Styles 3069, 3070; CSA SEWF-2

SPECIFICATIONS

1. CONDUCTOR: Annealed, tinned copper
2. INSULATION: Silicone rubber
3. OVERALL JACKET: Braided-glass yarn treated with high-temperature finish
4. TEMPERATURE: 150°C
5. VOLTAGE: 600 V

APPLICATIONS

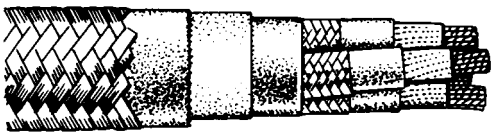
For use as motor lead with transformers and other high-temperature apparatus where a flexible cable is required.

Anixter No.	Vendor No.	Conductor AWG	No. of Strands	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
8M-1816B-B-XX	30818	18	16	0.030	0.132	13
8M-1626B-B-XX	30816	16	26	0.030	0.145	18
8M-1441B-B-XX	30814	14	41	0.030	0.164	24
8M-1265B-B-XX	30812	12	65	0.030	0.186	34

All part numbers require color code designation.
See Color Code chart in Technical Information Section.

150/200°C (302/392°F)

SKS



Silicone rubber insulation
Braided-glass jacket
600 V

SPECIFICATIONS

1. CONDUCTOR: Tinned copper per ASTM B-33, Class H stranded per ASTM B-173 or Class K stranded per ASTM B-174
2. INSULATION: Silicone rubber
3. CONDUCTOR JACKET: Braided-glass yarn, impregnated with high-temperature finish
4. COLOR CODING: Per ICEA S-19-91 (NEMA WC3), Table E-2
5. ASSEMBLY: Insulated conductors cabled with flame-retardant fillers (K-fiber) as necessary to make round, thermal barrier of overlapped binder tape applied over the cable core
6. OVERALL JACKET: Braided K-fiber yarn impregnated with abrasion-resistant finish
7. ARMOR: Stainless steel braid
8. TEMPERATURE: See chart below
9. VOLTAGE: 600 V

APPLICATIONS

Used in any industrial areas where resistance to high heat, abrasion, moisture, flame and hot material spills is required. Also used where there is continuous flexing, bending, traversing, reeling and unreeling.

Anixter No.	Conductor Size AWG	No. of Conductors	No. of Strands	Temperature °C	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
8SP-1204	12	4	65	150	0.050	0.115	0.720	329
8SP-0804	8	4	133	150	0.070	0.115	0.990	564
8SP-0604	6	4	133	150	0.070	0.115	1.095	792
8SP-0404	4	4	133	200	0.070	0.115	1.230	1,065
8SP-0204	2	4	133	200	0.070	0.115	1.400	1,474

Diameters and weights may vary among manufacturers.

150/200°C (302/392°F)

SRG

Silicone rubber insulation
Braided-glass jacket
600 V
UL and CSA

SPECIFICATIONS

1. CONDUCTOR: Tinned, annealed copper per ASTM B-33, Class H stranded per ASTM B-173 or Class K stranded per ASTM B-174
2. INSULATION: Silicone rubber
3. OVERALL JACKET: Braided-glass yarn treated with high-temperature finish
4. STANDARDS: Sizes 18-6 AWG meet the UL requirements for Styles 3069, 3070, 3101, 3123, 3127 (150°C), sizes 4-4/0 meet the UL requirements for Styles 3071, 3074, 3075, 3125, 3172, 3231 (200°C), sizes 18-6 AWG also meets the CSA requirements for SEWF-2 (150°C), sizes 4-4/0 meet the requirements for SEW-2 (200°C)
5. AMPACITY: Based on three single insulated conductors in raceway or cable with an ambient temperature of 40°C per 2008 NEC 310.18
6. TEMPERATURE: See chart below
7. VOLTAGE: 600 V

APPLICATIONS

For use as motor lead with transformers and other high-temperature apparatus where a flexible cable is essential.

Anixter No.	Conductor Size AWG	No. of Strands	Temperature °C	Insulation Thickness (in.)	Braid Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
8M-1801	18	16	150	0.030	0.007	0.123	12	20
8M-1601	16	26	150	0.030	0.007	0.135	16	26
8M-1401	14	41	150	0.030	0.007	0.149	22	34
8M-1201	12	65	150	0.030	0.007	0.168	30	43
8M-1001	10	105	150	0.047	0.007	0.222	51	55
8M-0801	8	133	150	0.063	0.012	0.315	89	76
8M-0601	6	133	150	0.063	0.012	0.369	130	96
8M-0401	4	133	200	0.063	0.012	0.419	184	125
8M-0201	2	259	200	0.063	0.013	0.479	276	171
8M-0101	1	259	200	0.080	0.013	0.566	356	197
8M-1011	1/0	259	200	0.080	0.013	0.612	430	229
8M-2021	2/0	259	200	0.080	0.013	0.665	544	260
8M-3031	3/0	259	200	0.080	0.012	0.724	648	297
8M-4041	4/0	259	200	0.080	0.013	0.797	808	346

All part numbers require color code designation.
See Color Code chart in Technical Information Section.
Diameters and weights may vary among manufacturers.

SF-2

Silicone rubber insulation

Braided-glass jacket

600 V

UL SF-2 and AWM 3231 and 3071, CSA SEW-2

SPECIFICATIONS

1. CONDUCTOR: Tinned, annealed copper per ASTM B-33, Class B stranded per ASTM B-8
2. INSULATION: Silicone rubber
3. OVERALL JACKET: Braided-glass yarn with high-temperature finish
4. STANDARDS: 18, 16, and 14 AWG meet the UL requirements for Type SF-2 and AWM Styles 3231 and 3071. 10 and 12 AWG meet UL AWM Style 3231 only
   All sizes also meet the CSA requirements for SEW-2
5. AMPACITY: Based on three single insulated conductors in raceway or cable with an ambient temperature of 40°C per 2008 NEC 310.18.
   Allowable ampacity for use as fixture wire can be found in Table 402.5 of the 2008 NEC
6. TEMPERATURE: 200°C
7. VOLTAGE: 600 V

APPLICATIONS

For use as motor lead with transformers and other high-temperature apparatus where a flexible cable is essential.

Anixter No.	Conductor Size AWG	No. of Strands	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
8E-1801-XX	18	7	0.030	0.121	12	20
8E-1601-XX	16	7	0.030	0.132	16	28
8E-1401-XX	14	7	0.030	0.145	22	36
8E-1201-XX	12	19	0.030	0.162	32	45
8E-1001-XX	10	19	0.045	0.217	52	60

All part numbers require color code designation.
See Color Code chart in Technical Information Section.
Diameters and weights may vary among manufacturers.

200°C (392°F)

Belden Silicone Rubber - Glass Braid (600 V)

BELDEN
Silicone rubber insulation
Braided-glass jacket
600 V
UL AWM Styles 3071, 3074, 3075, 3125, 3126; CSA SEW-2

SPECIFICATIONS

1. CONDUCTOR: Annealed, tinned copper
2. INSULATION: Silicone rubber
3. OVERALL JACKET: Braided-glass yarn with high-temperature finish
4. TEMPERATURE: 200°C
5. VOLTAGE: 600 V

APPLICATIONS

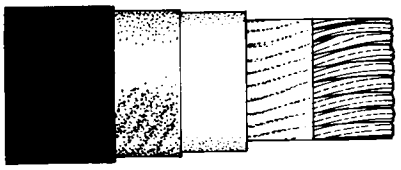
For use as motor lead with transformers and other high-temperature apparatus where a flexible cable is required.

Anixter No.	Vendor No.	Conductor AWG	No. of Strands	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
8E-1801-B-XX	32418	18	7	0.030	0.133	15
8E-1601-B-XX	32416	16	7	0.030	0.145	19
8E-1401-B-XX	32414	14	7	0.030	0.167	24
8E-1201-B-XX	32412	12	19	0.030	0.190	35
8E-1001-B-XX	32410	10	19	0.045	0.248	56
8E-0801-B-XX	30808	8	54	0.060	0.313	96
8E-0601-B-XX	30806	6	84	0.060	0.377	142
8E-0401-B-XX	30804	4	105	0.060	0.433	209
8E-0201-B-XX	30802	2	163	0.060	0.505	298
8E-1011-B-XX	30890	1/0	262	0.080	0.679	498

All part numbers require color code designation.
See Color Code chart in Technical Information Section.

200°C (392°F)

SRK



Silicone rubber insulation
Braided K-fiber jacket
600 V
UL AWM Style 3410

SPECIFICATIONS

1. CONDUCTOR: Tinned, annealed copper per ASTM B-33, Class H stranded per ASTM B-173
2. INSULATION: Silicone rubber
3. OVERALL JACKET: K-fiber braid with abrasion-resistant finish
4. STANDARDS: Meets the UL requirements for AWM Style 3410 (26-500 kcmil), meets the UL requirements for Type SA-90°C (14-500 kcmil), sizes 1/0 and larger pass the IEEE 383 Flame Test
5. AMPACITY: Based on three single insulated 200°C rated conductors in raceway or cable with an ambient temperature of 40°C per 2008 NEC 310.18
6. TEMPERATURE: 150°C - 200°C
7. VOLTAGE: 600 V

APPLICATIONS

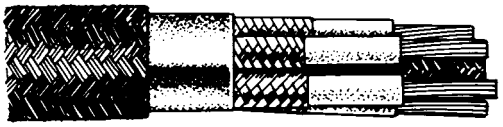
For installation above grade or in conduit in applications where high-temperature resistance to flame with circuit integrity is required. Suited for internal wiring of appliances and electrical equipment where moisture, cold and/or heat may be present.

Anixter No.	Conductor Size AWG	No. of Strands	Insulation Thickness (in.)	Braid Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
8MK-0801	8	133	0.060	0.035	0.368	96	83
8MK-0601	6	133	0.060	0.035	0.413	134	110
8MK-0401	4	133	0.060	0.035	0.469	192	125
8MK-0201	2	133	0.060	0.035	0.538	281	171
8MK-0101	1	259	0.080	0.035	0.621	366	197
8MK-1011	1/0	259	0.080	0.035	0.670	447	229
8MK-2021	2/0	259	0.080	0.035	0.723	546	260
8MK-4041	4/0	259	0.080	0.036	0.847	819	346
8MK-2501	250	427	0.095	0.035	0.931	981	385
8MK-3501	350	427	0.095	0.035	1.050	1,332	486
8MK-5001	500	427	0.095	0.035	1.201	1,837	593

Diameters and weights may vary among manufacturers.

200°C (392°F)

SRGK



Silicone rubber insulation
Glass braid/braided K-fiber jacket
600 V

SPECIFICATIONS

1. CONDUCTOR: Tinned, annealed copper per ASTM B-33, Class B stranded per ASTM B-8
2. INSULATION: Silicone rubber
3. INSULATION COVERING: Braided-glass yarn with high-temperature finish
4. COLOR CODE: Per ICEA Method 5, Table E-2 or Table E-1*
5. ASSEMBLY: Conductors are cabled with flame-retardant fillers as necessary to make round, a binder tape is applied over the assembly
6. OVERALL JACKET: K-fiber braid with abrasion-resistant finish
7. STANDARDS: Meets the requirements of ICEA S-19-81 (NEMA WC3) 'Rubber Insulated Wire and Cable' and also meets the IEEE 383 Flame Test
8. AMPACITY: Based on three single 200°C rated insulated conductors in raceway or cable with an ambient temperature of 40°C per NEC 310.18, values are derated for additional conductors per 2008 NEC Table 310.15(B)(2)(a).
9. TEMPERATURE: 200°C
10. VOLTAGE: 600 V

APPLICATIONS

Suitable for installation above grade in conduit or in applications where high-temperature resistance to flame with circuit integrity is required. These cables are especially suited for utility applications in conventional generating stations or industrial applications.

Anixter No.	Conductor Size AWG	No. of Conductors	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
8N-1402	14	2	7	0.053	0.035	0.445	84	36
8N-1403	14	3	7	0.053	0.035	0.475	111	36
8N-1404	14	4	7	0.053	0.035	0.525	143	29
8N-1407	14	7	7	0.053	0.035	0.630	223	25
8N-1409	14	9	7	0.053	0.035	0.740	293	25
8N-1412	14	12	7	0.053	0.035	0.840	373	18
8N-1202	12	2	7	0.053	0.035	0.485	112	45
8N-1203	12	3	7	0.053	0.035	0.515	139	45
8N-1204	12	4	7	0.053	0.035	0.570	172	36
8N-1205	12	5	7	0.053	0.035	0.625	218	36
8N-1207	12	7	7	0.053	0.035	0.685	285	31
8N-1209	12	9	7	0.053	0.035	0.810	376	31
8N-1212	12	12	7	0.053	0.035	0.920	483	22
8N-1002	10	2	7	0.053	0.035	0.530	141	60
8N-1004	10	4	7	0.053	0.035	0.625	232	48

Diameters and weights may vary among manufacturers.
*For E-1 add -1 suffix to part number.

Sil-A-Blend

RADIX WIRE CO

Silicone rubber with intermediate fiberglass layer

600 V

UL 3512, 3604

SPECIFICATIONS

1. CONDUCTOR: Tinned, annealed copper per ASTM B-33
2. INSULATION: Silicone rubber with an intermediate fiberglass layer
3. STANDARDS: Meets UL requirements for Style 3512 and 3604, also meets the CSA requirements for AWM at 200°C
4. TEMPERATURE: 200°C
5. VOLTAGE: 600 V

APPLICATIONS

For use in small and large appliances, food-service equipment, lighting fixtures, igniters, motors, generators and transformers.

Anixter No.	Conductor Size AWG	No. of Strands	Temperature °C	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
8SB-1801	18	7	200	0.036	0.119	11	18
8SB-1601	16	7	200	0.036	0.130	15	24
8SB-1401	14	7	200	0.036	0.144	20	36
8SB-1201	12	19	200	0.036	0.161	29	45
8SB-1001	10	19	200	0.051	0.215	47	60
8SB-0801	8	54	200	0.068	0.276	78	83
8SB-0601	6	84	200	0.068	0.346	118	110
8SB-0401	4	133	200	0.068	0.396	175	125
8SB-0201	2	259	200	0.068	0.473	261	171
8SB-0101	1	259	200	0.088	0.554	340	197
8SB-1011	1/0	259	200	0.088	0.600	416	229
8SB-2021	2/0	259	200	0.088	0.653	512	260
8SB-3031	3/0	259	200	0.088	0.712	632	297
8SB-4041	4/0	259	200	0.088	0.777	780	346

Diameters and weights may vary among manufacturers.

250°C (482°F)

TGGT

PTFE/glass
Fiberglass-braid composite
600 V
UL 5256/5196

SPECIFICATIONS

1. CONDUCTOR: Nickel-plated copper per ASTM B-355, Class K stranded per ASTM B-174 (18-10 AWG) or Class H stranded per ASTM B-173 (8-2 AWG)
2. COMPOSITE INSULATION: PTFE tape wrapped in concentric layers and a wall of glass fiber wrap impregnated with a high-temperature finish
3. OVERALL JACKET: Braided-glass yarn impregnated with an abrasion-resistant finish
4. STANDARDS: Meets the UL requirements for AWM Style 5256/5196, also meets the requirements for CSA Type C3
5. AMPACITY: Based on three single insulated conductors in raceway or cable with an ambient temperature of 40°C per 2008 NEC 310.18
6. TEMPERATURE: 250°C
7. VOLTAGE: 600 V

APPLICATIONS

For use as internal wiring of commercial and industrial heating and cooking equipment and similar high-temperature appliances.

Anixter No.	Conductor Size AWG	No. of Strands	Composite Insulation Thickness (in.)	Serve Thickness (in.)	Braid Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
8TGG-1801	18	19	0.010	0.005	0.008	0.091	9	20
8TGG-1601	16	26	0.013	0.005	0.007	0.107	14	26
8TGG-1401	14	41	0.013	0.005	0.006	0.121	19	39
8TGG-1201	12	65	0.013	0.005	0.006	0.139	28	54
8TGG-1001	10	105	0.013	0.005	0.006	0.164	42	73
8TGG-0801	8	133	0.013	0.005	0.006	0.212	66	93
8TGG-0601	6	133	0.017	0.008	0.009	0.269	108	117
8TGG-0401	4	133	0.017	0.008	0.011	0.269	164	148
8TGG-0201	2	133	0.017	0.008	0.009	0.398	248	191

All part numbers require color code designation.
Diameters and weights may vary among manufacturers.

TMMG

TFE/mica tape/K-fiber
Stainless steel armor
600 V

SPECIFICATIONS

1. CONDUCTOR: Nickel-coated copper per ASTM B-33, Class K stranded per ASTM B-174 or Class H stranded per ASTM B-173
2. INSULATION: TFE and mica tapes and a glass braid impregnated with a high-temperature finish
3. CONDUCTOR COVERING: Glass braid and mica tapes
4. CONDUCTOR JACKET: Braided-glass yarn impregnated with an abrasion-resistant finish
5. COLOR CODE: Per ICEA Method 2, Table E-2
6. ASSEMBLY: Conductors are cabled with flame-retardant fillers as necessary to make round, a heat-resistant binder is applied overall
7. OVERALL JACKET: K-fiber braid impregnated with additional moisture, flame and abrasion inhibitors
8. OVERALL ARMOR: Stainless steel armor
9. TEMPERATURE: 250°C
10. VOLTAGE: 600 V

APPLICATIONS

For use around blast furnaces, or where subject to sparks, splashing metal and repeated heating and cooling.

Anixter No.	Conductor Size AWG	No. of Conductors	No. of Strands	Composite Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
8TM-0604	6	4	133	0.087	0.055	1.080	792

Diameters and weights may vary among manufacturers.

450°C (842°F)

MG

Mica composite
Braided-glass jacket
600 V
UL AWM Style 5107/5335

SPECIFICATIONS

1. CONDUCTOR: Nickel-plated copper per ASTM B-355, Class K stranded per ASTM B-174 or Class H stranded per ASTM B-173
2. INSULATION: Mica composite
3. OVERALL JACKET: Braided-glass yarn impregnated with high-temperature finish
4. STANDARDS: UL Listed for 450°C with a 538°C maximum (non UL), meets the UL requirements for AWM Style 5107/5335
5. TEMPERATURE: 450°C
6. VOLTAGE: 600 V

APPLICATIONS

Wiring of very high-temperature commercial or industrial equipment. Useful for high-temperature environments where lower-rated cables will not work adequately.

Anixter No.	Conductor Size AWG	No. of Strands	Composite Insulation Thickness (in.)	Braid Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
8TC-1801	18	16	0.025	0.007	0.114	11
8TC-1601	16	26	0.025	0.007	0.127	15
8TC-1401	14	41	0.025	0.007	0.140	21
8TC-1201	12	65	0.025	0.007	0.163	30
8TC-1001	10	105	0.030	0.015	0.214	51
8TC-0801	8	133	0.030	0.015	0.261	75
8TC-0601	6	133	0.030	0.015	0.304	111
8TC-0401	4	133	0.030	0.015	0.360	166

Diameters and weights may vary between manufacturers.

550°C

DuraFlex 550°C (1,022°F)

RADIX WIRE CO
Mica-composite insulation
Braided-glass jacket
Modified silicone coating

SPECIFICATIONS

1. CONDUCTOR: Nickel-plated copper 27 percent or solid "A" nickel
2. INSULATION: Mica composite
3. JACKET: Braided-glass yarn
4. OUTER COATING: Modified silicone
5. STANDARDS: UL Listed for 550°C, meets UL requirements for Style 5400, also meets the CSA requirements for AWM at 550°C
6. TEMPERATURE: 550°C (1,022°F)
7. VOLTAGE: 600 V

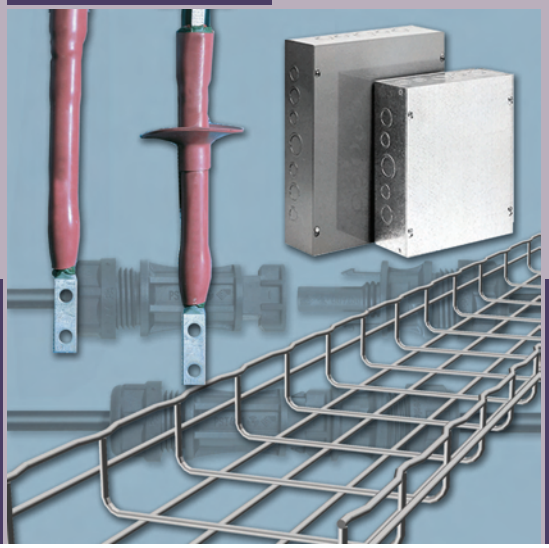
APPLICATIONS

For use in extreme environments where added thermal protection is required such as glass or ceramic sleeving. Applications include household and commercial appliances, heater elements, igniters, commercial cooking equipment, industrial furnaces and plastics equipment.

Anixter No.	Conductor Size AWG	No. of Strands	Temperature °C	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
8DF-1801	18	16	550	0.124	10	23
8DF-1601	16	26	550	0.145	17	30
8DF-1401	14	41	550	0.159	23	45
8DF-1201	12	65	550	0.182	34	56
8DF-1001	10	105	550	0.212	57	75
8DF-0801	8	133	550	0.266	80	104

Diameters and weights may vary among manufacturers.

15



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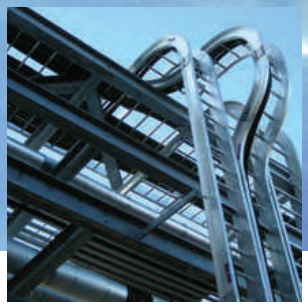

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Compression Lugs - Copper

HYLUG Copper Compression, CODE Conductor Lugs

BURNDY

UL Listed 90°C

600 V to 35 kV

ONE-HOLE STANDARD BARREL WITH INSPECTION WINDOW

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Lug Length x Tongue Width (in.)	Color Code
YA8CLBOX	YA8CLBOX	8	#10	1.16 x 0.41	Red
YA8CL1BOX	YA8CL1BOX	8	1/4	1.26 x 0.44	Red
YA8CL2BOX	YA8CL2BOX	8	5/16	1.38 x 0.52	Red
YA8CL3BOX	YA8CL3BOX	8	3/8	1.51 x 0.58	Red
YA6CL1BOX	YA6CL1BOX	6	#10	0.99 x 0.41	Blue
YA6CLBOX	YA6CLBOX	6	1/4	1.18 x 0.45	Blue
YA6CL3BOX	YA6CL3BOX	6	5/16	1.24 x 0.52	Blue
YA6CL4BOX	YA6CL4BOX	6	3/8	1.28 x 0.63	Blue
YA4CLBOX	YA4CLBOX	4	1/4	1.74 x 0.50	Gray
YA4CL3BOX	YA4CL3BOX	4	5/16	1.92 x 0.58	Gray
YA4CL4BOX	YA4CL4BOX	4	3/8	1.92 x 0.58	Gray
YA4CL6BOX	YA4CL6BOX	4	1/2	2.20 x 0.71	Gray
YA2CL2BOX	YA2CL2BOX	2	1/4	1.88 x 0.61	Brown
YA2CLBOX	YA2CLBOX	2	5/16	1.93 x 0.61	Brown
YA2CL4BOX	YA2CL4BOX	2	3/8	2.06 x 0.61	Brown
YA2CL6BOX	YA2CL6BOX	2	1/2	2.32 x 0.73	Brown
YA25LBOX	YA25LBOX	1/0	5/16	1.96 x 0.75	Pink
YA25L4BOX	YA25L4BOX	1/0	3/8	2.09 x 0.75	Pink
YA25L6BOX	YA25L6BOX	1/0	1/2	2.34 x 0.75	Pink
YA26L3BOX	YA26L3BOX	2/0	5/16	2.06 x 0.83	Black
YA26LBOX	YA26LBOX	2/0	3/8	2.19 x 0.83	Black
YA26L6BOX	YA26L6BOX	2/0	1/2	2.44 x 0.83	Black
YA27L3	YA27L3	3/0	5/16	2.16 x 0.91	Orange
YA27L4BOX	YA27L4BOX	3/0	3/8	2.29 x 0.91	Orange
YA27LBOX	YA27LBOX	3/0	1/2	2.54 x 0.91	Orange
YA28L4BOX	YA28L4BOX	4/0	3/8	2.21 x 1.02	Purple
YA28LBOX	YA28LBOX	4/0	1/2	2.46 x 1.02	Purple
YA29L4	YA29L4	250	3/8	2.42 x 1.11	Yellow
YA29L	YA29L	250	1/2	2.67 x 1.11	Yellow
YA29LTC78	YA29LTC78	250	7/8	3.36 x 1.11	Yellow
YA31L	YA31L	350	1/2	2.75 x 1.29	Red
YA31L7	YA31L7	350	5/8	3.00 x 1.29	Red
YA31L36	YA31L36	350	7/8	4.02 x 1.29	Red
YA34L6	YA34L6	500	1/2	3.12 x 1.55	Brown
YA34L	YA34L	500	5/8	3.37 x 1.55	Brown
YA34L9	YA34L9	500	7/8	3.80 x 1.55	Brown
YA39L6	YA39L6	750	1/2	3.41 x 1.91	Black
YA39L	YA39L	750	5/8	3.67 x 1.91	Black
YA39L2	YA39L2	750	7/8	4.10 x 1.91	Black

Compression Lugs - Copper

ONE-HOLE LONG BARREL WITH INSPECTION WINDOW

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Lug Length x Tongue Width (in.)	Color Code
YAZ8CTC10	YAZ8CTC10	8	#10	1.58 x 0.41	Red
YAZ8CTC14	YAZ8CTC14	8	1/4	1.70 x 0.44	Red
YAZ8CTC38	YAZ8CTC38	8	3/8	1.89 x 0.58	Red
YAZ6CTC14	YAZ6CTC14	6	1/4	2.03 x 0.45	Blue
YAZ6CTC38	YAZ6CTC38	6	3/8	2.22 x 0.58	Blue
YAZ4CTC14	YAZ4CTC14	4	1/4	2.05 x 0.49	Gray
YAZ4CTC38	YAZ4CTC38	4	3/8	2.23 x 0.58	Gray
YAZ2CTC14	YAZ2CTC14	2	1/4	2.23 x 0.60	Brown
YAZ2CTC38	YAZ2CTC38	2	3/8	2.41 x 0.60	Brown
YAZ2CTC12	YAZ2CTC12	2	1/2	2.85 x 0.83	Brown
YAZ25TC14	YAZ25TC14	1/0	1/4	2.42 x 0.75	Pink
YAZ25TC38	YAZ25TC38	1/0	3/8	2.60 x 0.75	Pink
YAZ25TC12	YAZ25TC12	1/0	1/2	3.04 x 0.83	Pink
YAZ26TC38	YAZ26TC38	2/0	3/8	2.76 x 0.83	Black
YAZ26TC12	YAZ26TC12	2/0	1/2	3.20 x 0.83	Black
YAZ28TC38	YAZ28TC38	4/0	3/8	2.99 x 1.02	Purple
YAZ28TC12	YAZ28TC12	4/0	1/2	3.40 x 1.02	Purple
YAZ31TC38	YAZ31TC38	350	3/8	3.45 x 1.29	Red
YAZ31TC12	YAZ31TC12	350	1/2	3.89 x 1.29	Red
YAZ34TC38	YAZ34TC38	500	3/8	3.85 x 1.55	Brown
YAZ34TC12	YAZ34TC12	500	1/2	4.29 x 1.55	Brown
YAZ39TC38	YAZ39TC38	750	3/8	4.82 x 1.91	Black
YAZ39TC12	YAZ39TC12	750	1/2	5.07 x 1.91	Black

Compression Lugs - Copper

HYLUG Copper Compression, CODE Conductor Lugs

BURNDY
UL Listed 90°C
600 V to 35 kV

TWO-HOLE STANDARD BARREL WITH INSPECTION WINDOW

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Stud Hole Spacing (in.)	Lug Length x Tongue Width (in.)	Color Code
YA8CL2TC10	YA8CL2TC10	8	#10	5/8	1.83 x 0.41	Red
YA8CL2TC14	YA8CL2TC14	8	1/4	5/8	1.95 x 0.41	Red
YA8CL2TC14E1	YA8CL2TC14E1	8	1/4	1	2.33 x 0.41	Red
YA8CL2TC38	YA8CL2TC38	8	3/8	1	2.52 x 0.57	Red
YA6CL2TC10	YA6CL2TC10	6	#10	5/8	1.94 x 0.42	Blue
YA6CL2TC14E	YA6CL2TC14E	6	1/4	1/2	1.94 x 0.45	Blue
YA6CL2TC14	YA6CL2TC14	6	1/4	5/8	2.07 x 0.45	Blue
YA6CL2TC14E2	YA6CL2TC14E2	6	1/4	3/4	2.19 x 0.44	Blue
YA6CL2TC14E1	YA6CL2TC14E1	6	1/4	1	2.44 x 0.45	Blue
YA6CL2TC38	YA6CL2TC38	6	3/8	1	2.63 x 0.63	Blue
YA4CL2TC14	YA4CL2TC14	4	1/4	5/8	2.36 x 0.49	Gray
YA4CL2TC14E2	YA4CL2TC14E2	4	1/4	3/4	2.49 x 0.49	Gray
YA4CL2TC14E1	YA4CL2TC14E1	4	1/4	1	2.74 x 0.49	Gray
YA4CL2TC38	YA4CL2TC38	4	3/8	1	2.96 x 0.58	Gray
YA2CL2TC14	YA2CL2TC14	2	1/4	5/8	2.47 x 0.60	Brown
YA2CL2TC14E2	YA2CL2TC14E2	2	1/4	3/4	2.60 x 0.60	Brown
YA2CL2TC14E1	YA2CL2TC14E1	2	1/4	1	2.85 x 0.60	Brown
YA2CL2TC38	YA2CL2TC38	2	3/8	1	3.03 x 0.60	Brown
YA25L2TC14	YA25L2TC14	1/0	1/4	5/8	2.64 x 0.75	Pink
YA25L2TC14E2	YA25L2TC14E2	1/0	1/4	3/4	2.66 x 0.75	Pink
YA25L2TC14E1	YA25L2TC14E1	1/0	1/4	1	3.01 x 0.75	Pink
YA25L2TC38	YA25L2TC38	1/0	3/8	1	3.10 x 0.75	Pink
YA26L2TC14	YA26L2TC14	2/0	1/4	5/8	2.64 x 0.83	Black
YA26L2TC14E2	YA26L2TC14E2	2/0	1/4	3/4	2.76 x 0.83	Black
YA26L2TC14E1	YA26L2TC14E1	2/0	1/4	1	3.01 x 0.83	Black
YA26L2TC38	YA26L2TC38	2/0	3/8	1	3.20 x 0.83	Black
YA28L2TC14E2	YA28L2TC14E2	4/0	1/4	3/4	2.78 x 1.02	Purple
YA28L2TC14E1	YA28L2TC14E1	4/0	1/4	1	3.03 x 1.02	Purple
YA28L2TC38	YA28L2TC38	4/0	3/8	1	3.22 x 1.02	Purple
YA31L2TC14E2	YA31L2TC14E2	350	1/4	3/4	3.07 x 1.29	Red
YA31L2TC38	YA31L2TC38	350	3/8	1	3.51 x 1.29	Red
YA312LN	YA312LN	350	1/2	1 3/4	4.70 x 1.29	Red
YA34L2TC38	YA34L2TC38	500	3/8	1	3.88 x 1.52	Brown
YA342LN	YA342LN	500	1/2	1 3/4	5.06 x 1.52	Brown
YA39L2TC38	YA39L2TC38	750	3/8	1	4.36 x 1.89	Black
YA392LN	YA392LN	750	1/2	1 3/4	5.36 x 1.89	Black

Compression Lugs - Copper

TWO-HOLE LONG BARREL WITH INSPECTION WINDOW

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Stud Hole Spacing (in.)	Lug Length x Tongue Width (in.)	Color Code
YAZ8C2TC10	YAZ8C2TC10	8	#10	5/8	2.20 x 0.41	Red
YAZ8C2TC14	YAZ8C2TC14	8	1/4	5/8	2.33 x 0.44	Red
YAZ8C2TC14E1	YAZ8C2TC14E1	8	1/4	1	2.70 x 0.44	Red
YAZ8C2TC38	YAZ8C2TC38	8	3/8	1	2.89 x 0.58	Red
YAZ6C2TC14	YAZ6C2TC14	6	1/4	5/8	2.65 x 0.45	Blue
YAZ6C2TC14E2	YAZ6C2TC14E2	6	1/4	3/4	2.78 x 0.45	Blue
YAZ6C2TC14E1	YAZ6C2TC14E1	6	1/4	1	3.03 x 0.45	Blue
YAZ6C2TC38	YAZ6C2TC38	6	3/8	1	3.22 x 0.58	Blue
YAZ4C2TC14	YAZ4C2TC14	4	1/4	5/8	2.67 x 0.49	Gray
YAZ4C2TC14E2	YAZ4C2TC14E2	4	1/4	3/4	2.80 x 0.49	Gray
YAZ4C2TC38	YAZ4C2TC38	4	3/8	1	3.23 x 0.58	Gray
YAZ2C2TC14	YAZ2C2TC14	2	1/4	5/8	2.85 x 0.60	Brown
YAZ2C2TC14E2	YAZ2C2TC14E2	2	1/4	3/4	2.97 x 0.60	Brown
YAZ2C2TC14E1	YAZ2C2TC14E1	2	1/4	1	3.22 x 0.60	Brown
YAZ2C2TC38	YAZ2C2TC38	2	3/8	1	3.41 x 0.60	Brown
YAZ252TC14	YAZ252TC14	1/0	1/4	5/8	3.04 x 0.75	Pink
YAZ252TC14E2	YAZ252TC14E2	1/0	1/4	3/4	3.16 x 0.75	Pink
YAZ252TC14E1	YAZ252TC14E1	1/0	1/4	1	3.41 x 0.75	Pink
YAZ252TC516E6	YAZ252TC516E6	1/0	5/16	7/8	3.35 x 0.75	Pink
YAZ252TC38	YAZ252TC38	1/0	3/8	1	3.60 x 0.75	Pink
YAZ262TC14	YAZ262TC14	2/0	1/4	5/8	3.20 x 0.83	Black
YAZ262TC14E2	YAZ262TC14E2	2/0	1/4	3/4	3.32 x 0.83	Black
YAZ262TC38	YAZ262TC38	2/0	3/8	1	3.76 x 0.83	Black
YAZ282TC14E2	YAZ282TC14E2	4/0	1/4	3/4	3.55 x 1.02	Purple
YAZ282TC38	YAZ282TC38	4/0	3/8	1	3.99 x 1.02	Purple
YAZ312TC14E2	YAZ312TC14E2	350	1/4	3/4	4.02 x 1.29	Red
YAZ312TC38	YAZ312TC38	350	3/8	1	4.45 x 1.29	Red
YAZ312N	YAZ312N	350	1/2	1 3/4	5.64 x 1.29	Red
YAZ342TC38	YAZ342TC38	500	3/8	1	4.85 x 1.55	Brown
YAZ342N	YAZ342N	500	1/2	1 3/4	6.04 x 1.55	Brown
YAZ392TC38	YAZ392TC38	750	3/8	1	5.82 x 1.91	Black
YAZ392N	YAZ392N	750	1/2	1 3/4	6.82 x 1.91	Black

Compression Lugs - Copper

HYLUG Copper Compression, FLEX Conductor Lugs

BURNDY
UL Listed 90°C
600 V to 35 kV

ONE-HOLE STANDARD BARREL WITH INSPECTION WINDOW
Straight (180°)

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Lug Length x Tongue Width (in.)	Color Code
YA8CLBOX	YA8CLBOX	8	#10	1.16 x 0.41	Red
YA8CL2BOX	YA8CL2BOX	8	5/16	1.38 x 0.52	Red
YA8CL3BOX	YA8CL3BOX	8	3/8	1.51 x 0.58	Red
YAV6CLTC10FX	YAV6CLTC10FX	6	#10	1.30 x 0.48	Blue
YAV6CLTC14FX	YAV6CLTC14FX	6	1/4	1.43 x 0.48	Blue
YAV6CLTC516FX	YAV6CLTC516FX	6	5/16	1.49 x 0.60	Blue
YAV6CLTC38FX	YAV6CLTC38FX	6	3/8	1.61 x 0.60	Blue
YAV4CLTC10FX	YAV4CLTC10FX	4	#10	1.32 x 0.55	Gray
YAV4CLTC14FX	YAV4CLTC14FX	4	1/4	1.44 x 0.55	Gray
YAV4CLTC516FX	YAV4CLTC516FX	4	5/16	1.51 x 0.55	Gray
YAV4CLTC38FX	YAV4CLTC38FX	4	3/8	1.67 x 0.58	Gray
YAV2CLTC14FX	YAV2CLTC14FX	2	1/4	1.62 x 0.68	Brown
YAV2CLTC516FX	YAV2CLTC516FX	2	5/16	1.69 x 0.68	Gray
YAV2CLTC38FX	YAV2CLTC38FX	2	3/8	1.81 x 0.68	Brown
YAV2CLTC12FX	YAV2CLTC12FX	2	1/2	2.12 x 0.77	Brown
YAV25LTC14FX	YAV25LTC14FX	1/0	1/4	1.75 x 0.83	Brown
YAV25LTC516FX	YAV25LTC516FX	1/0	5/16	1.77 x 0.83	Pink
YAV25LTC38FX	YAV25LTC38FX	1/0	3/8	1.94 x 0.83	Pink
YAV25LTC12FX	YAV25LTC12FX	1/0	1/2	2.19 x 0.83	Pink
YAV26LTC516FX	YAV26LTC516FX	2/0	5/16	1.98 x 0.93	Black
YAV26LTC38FX	YAV26LTC38FX	2/0	3/8	2.11 x 0.93	Black
YAV26LTC12FX	YAV26LTC12FX	2/0	1/2	2.36 x 0.93	Black
YAV28LTC38FX	YAV28LTC38FX	4/0	3/8	2.42 x 1.14	Purple
YAV28LTC12FX	YAV28LTC12FX	4/0	1/2	2.67 x 1.14	Purple
YAV28LTC58FX	YAV28LTC58FX	4/0	5/8	2.92 x 1.14	Purple
YA34LTC12FX	YA34LTC12FX	350	1/2	3.12 x 1.55	Blue
YA34LTC58FX	YA34LTC58FX	350	5/8	3.37 x 1.55	Blue
YA38LTC12FX	YA38LTC12FX	500	1/2	3.41 x 1.84	Pink
YA38LTC58FX	YA38LTC58FX	500	5/8	3.66 x 1.84	Pink
YA44LTC12FX	YA44LTC12FX	750	1/2	3.79 x 2.19	Yellow
YA44LTC58FX	YA44LTC58FX	750	5/8	4.04 x 2.19	Yellow

Compression Lugs - Copper

ONE-HOLE LONG BARREL WITH INSPECTION WINDOW
Straight (180°)

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Lug Length x Tongue Width (in.)	Color Code
YAZ8CTC10	YAZ8CTC10	8	#10	1.58 x 0.41	Red
YAZ8CTC14	YAZ8CTC14	8	1/4	1.70 x 0.44	Red
YAZ8CTC38	YAZ8CTC38	8	3/8	1.89 x 0.58	Red
YAZV6CTC14FX	YAZV6CTC14FX	6	1/4	2.03 x 0.48	Blue
YAZV6CTC38FX	YAZV6CTC38FX	6	3/8	2.22 x 0.58	Blue
YAZV4CTC14FX	YAZV4CTC14FX	4	1/4	2.21 x 0.55	Gray
YAZV4CTC38FX	YAZV4CTC38FX	4	3/8	2.39 x 0.58	Gray
YAZV2CTC14FX	YAZV2CTC14FX	2	1/4	2.39 x 0.68	Brown
YAZV2CTC38FX	YAZV2CTC38FX	2	3/8	2.57 x 0.68	Brown
YAZV2CTC12FX	YAZV2CTC12FX	2	1/2	3.01 x 0.83	Brown
YAZV25TC14FX	YAZV25TC14FX	1/0	1/4	2.58 x 0.83	Pink
YAZV25TC38FX	YAZV25TC38FX	1/0	3/8	2.76 x 0.83	Pink
YAZV25TC12FX	YAZV25TC12FX	1/0	1/2	3.20 x 0.83	Pink
YAZV26TC38FX	YAZV26TC38FX	2/0	3/8	2.76 x 0.93	Black
YAZV26TC12FX	YAZV26TC12FX	2/0	1/2	3.20 x 0.93	Black
YAZV28TC38FX	YAZV28TC38FX	4/0	3/8	2.96 x 1.14	Purple
YAZV28TC12FX	YAZV28TC12FX	4/0	1/2	3.18 x 1.14	Purple
YAZ34TC38FX	YAZ34TC38FX	350	3/8	3.85 x 1.52	Blue
YAZ34TC12FX	YAZ34TC12FX	350	1/2	4.29 x 1.52	Blue
YAZ38TC38FX	YAZ38TC38FX	500	3/8	4.72 x 1.81	Pink
YAZ38TC12FX	YAZ38TC12FX	500	1/2	4.97 x 1.81	Pink

Compression Lugs - Copper

HYLUG Copper Compression, FLEX Conductor Lugs

BURNDY
UL Listed 90°C
600 V to 35 kV

TWO-HOLE STANDARD BARREL WITH INSPECTION WINDOW

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Stud Hole Spacing (in.)	Lug Length x Tongue Width (in.)	Color Code
YA8CL2TC10	YA8CL2TC10	8	#10	5/8	1.83 x 0.41	Red
YA8CL2TC14	YA8CL2TC14	8	1/4	5/8	1.95 x 0.41	Red
YA8CL2TC14E1	YA8CL2TC14E1	8	1/4	1	2.33 x 0.41	Red
YA8CL2TC38	YA8CL2TC38	8	3/8	1	2.52 x 0.57	Red
YAV6CL2TC10FX	YAV6CL2TC10FX	6	#10	5/8	1.94 x 0.44	Blue
YAV6CL2TC14FX	YAV6CL2TC14FX	6	1/4	5/8	2.06 x 0.48	Blue
YAV6CL2TC14E2FX	YAV6CL2TC14E2FX	6	1/4	3/4	2.19 x 0.48	Blue
YAV6CL2TC14E1FX	YAV6CL2TC14E1FX	6	1/4	1	2.44 x 0.48	Blue
YAV6CL2TC38FX	YAV6CL2TC38FX	6	3/8	1	2.62 x 0.58	Blue
YAV4CL2TC14FX	YAV4CL2TC14FX	4	1/4	5/8	2.08 x 0.55	Gray
YAV4CL2TC14E2FX	YAV4CL2TC14E2FX	4	1/4	3/4	2.20 x 0.55	Gray
YAV4CL2TC14E1FX	YAV4CL2TC14E1FX	4	1/4	1	2.45 x 0.55	Gray
YAV4CL2TC38FX	YAV4CL2TC38FX	4	3/8	1	2.68 x 0.58	Gray
YAV2CL2TC14FX	YAV2CL2TC14FX	2	1/4	5/8	2.26 x 0.68	Brown
YAV2CL2TC14E2FX	YAV2CL2TC14E2FX	2	1/4	3/4	2.38 x 0.68	Brown
YAV2CL2TC14E1FX	YAV2CL2TC14E1FX	2	1/4	1	2.63 x 0.68	Brown
YAV2CL2TC38FX	YAV2CL2TC38FX	2	3/8	1	2.82 x 0.68	Brown
YAV25L2TC14FX	YAV25L2TC14FX	1/0	1/4	5/8	2.39 x 0.83	Pink
YAV25L2TC38FX	YAV25L2TC38FX	1/0	3/8	1	2.95 x 0.83	Pink
YAV26L2TC14FX	YAV26L2TC14FX	2/0	1/4	5/8	2.56 x 0.93	Black
YAV26L2TC14E2FX	YAV26L2TC14E2FX	2/0	1/4	3/4	2.68 x 0.93	Black
YAV26L2TC38FX	YAV26L2TC38FX	2/0	3/8	1	3.12 x 0.93	Black
YAV28L2TC14FX	YAV28L2TC14FX	4/0	1/4	5/8	2.86 x 1.12	Purple
YAV28L2TC38FX	YAV28L2TC38FX	4/0	3/8	1	3.43 x 1.12	Purple
YA34L2TC38FX	YA34L2TC38FX	350	3/8	1	3.88 x 1.52	Blue
YA34L2NT38FX	YA34L2NT38FX	350	3/8	1	3.88 x 0.96	Blue
YA34L2TC12FX	YA34L2TC12FX	350	1/2	1 1/4	4.38 x 1.52	Blue
YA34L2NTCFX	YA34L2NTCFX	350	1/2	1 3/4	5.06 x 1.52	Blue
YA38L2TC38FX	YA38L2TC38FX	500	3/8	1	4.35 x 1.81	Pink
YA38L2NT38FX	YA38L2NT38FX	500	3/8	1	4.35 x 1.63	Pink
YA38L2NTCFX	YA38L2NTCFX	500	1/2	1 3/4	5.35 x 1.81	Pink
YA44L2TC38FX	YA44L2TC38FX	750	3/8	1	4.74 x 2.19	Yellow
YA44L2NT38FX	YA44L2NT38FX	750	3/8	1	4.74 x 1.63	Yellow
YA44L2NTCFX	YA44L2NTCFX	750	1/2	1 3/4	5.74 x 2.19	Yellow

Compression Lugs - Copper

TWO-HOLE LONG BARREL WITH INSPECTION WINDOW

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Stud Hole Spacing (in.)	Lug Length x Tongue Width (in.)	Color Code
YAZ8C2TC10FX	YAZ8C2TC10FX	8	#10	5/8	2.20 x 0.41	Red
YAZ8C2TC14FX	YAZ8C2TC14FX	8	1/4	5/8	2.33 x 0.44	Red
YAZ8C2TC38FX	YAZ8C2TC38FX	8	3/8	1	2.89 x 0.58	Red
YAZV6C2TC14FX	YAZV6C2TC14FX	6	1/4	5/8	2.65 x 0.48	Blue
YAZV6C2TC14E2FX	YAZV6C2TC14E2FX	6	1/4	3/4	2.78 x 0.48	Blue
YAZV6C2TC14E1FX	YAZV6C2TC14E1FX	6	1/4	1	3.03 x 0.48	Blue
YAZV6C2TC38FX	YAZV6C2TC38FX	6	3/8	1	3.22 x 0.58	Blue
YAZV4C2TC14FX	YAZV4C2TC14FX	4	1/4	5/8	2.83 x 0.55	Gray
YAZV4C2TC14E2FX	YAZV4C2TC14E2FX	4	1/4	3/4	2.95 x 0.55	Gray
YAZV4C2TC38FX	YAZV4C2TC38FX	4	3/8	1	3.39 x 0.58	Gray
YAZV2C2TC14FX	YAZV2C2TC14FX	2	1/4	5/8	3.01 x 0.68	Brown
YAZV2C2TC14E2FX	YAZV2C2TC14E2FX	2	1/4	3/4	3.13 x 0.68	Brown
YAZV2C2TC38FX	YAZV2C2TC38FX	2	3/8	1	3.57 x 0.68	Brown
YAZV252TC14FX	YAZV252TC14FX	1/0	1/4	5/8	3.20 x 0.83	Pink
YAZV252TC14E2FX	YAZV252TC14E2FX	1/0	1/4	3/4	3.32 x 0.83	Pink
YAZV252TC38FX	YAZV252TC38FX	1/0	3/8	1	3.76 x 0.83	Pink
YAZV262TC14FX	YAZV262TC14FX	2/0	1/4	5/8	3.20 x 0.93	Black
YAZV262TC14E2FX	YAZV262TC14E2FX	2/0	1/4	3/4	3.32 x 0.93	Black
YAZV262TC38FX	YAZV262TC38FX	2/0	3/8	1	3.76 x 0.93	Black
YAZV282TC14E2FX	YAZV282TC14E2FX	4/0	1/4	3/4	3.52 x 1.14	Purple
YAZV282TC38FX	YAZV282TC38FX	4/0	3/8	1	3.96 x 1.14	Purple
YAZ342TC38FX	YAZ342TC38FX	350	3/8	1	4.85 x 1.55	Blue
YAZ342NT38FX	YAZ342NT38FX	350	3/8	1	4.85 x 0.96	Blue
YAZ342NTCFX	YAZ342NTCFX	350	1/2	1 3/4	6.04 x 1.55	Blue
YAZ382TC38FX	YAZ382TC38FX	500	3/8	1	5.72 x 1.81	Pink
YAZ382NT38FX	YAZ382NT38FX	500	3/8	1	5.72 x 1.63	Pink
YAZ382NTCFX	YAZ382NTCFX	500	1/2	1 3/4	6.72 x 1.81	Pink
YAZ442TC38FX	YAZ442TC38FX	750	3/8	1	6.09 x 2.19	White

Compression Lugs - Copper

PAN-LUG Copper Compression, CODE Conductor, One-hole Lugs

PANDUIT

FEATURES

- Color-coded barrels marked with PANDUIT and specified competitor die index numbers for proper crimp die selection
- UL Listed and CSA Certified to 35 kV and temperature rated to 90°C when crimped with PANDUIT and specified competitor crimping tools and dies
- Tested by Telcordia - meets NEBS Level 3

APPLICATIONS

For use with stranded copper CODE conductors.

ONE-HOLE STANDARD BARREL WITH WINDOW

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Lug Length x Tongue Width (in.)	Color Code
PAN-LCA8-10	LCA8-10-L	8	#10	1.25 x 0.41	Red
PAN-LCA8-14	LCA8-14-L	8	1/4	1.34 x 0.48	Red
PAN-LCA8-56	LCA8-56-L	8	5/16	1.46 x 0.56	Red
PAN-LCA8-38	LCA8-38-L	8	3/8	1.56 x 0.60	Red
PAN-LCA6-10	LCA6-10-L	6	#10	1.52 x 0.45	Blue
PAN-LCA6-14	LCA6-14-L	6	1/4	1.61 x 0.48	Blue
PAN-LCA6-56	LCA6-56-L	6	5/16	1.73 x 0.56	Blue
PAN-LCA6-38	LCA6-38-L	6	3/8	1.83 x 0.62	Blue
PAN-LCA4-10	LCA4-10-L	4 - 3 AWG Str., 2 AWG Sol.	#10	1.54 x 0.55	Gray
PAN-LCA4-14	LCA4-14-L	4 - 3 AWG Str., 2 AWG Sol.	1/4	1.63 x 0.55	Gray
PAN-LCA4-56	LCA4-56-L	4 - 3 AWG Str., 2 AWG Sol.	5/16	1.75 x 0.55	Gray
PAN-LCA4-38	LCA4-38-L	4 - 3 AWG Str., 2 AWG Sol.	3/8	1.85 x 0.62	Gray
PAN-LCA2-14	LCA2-14-Q	2	1/4	1.77 x 0.60	Brown
PAN-LCA2-56	LCA2-56-Q	2	5/16	1.90 x 0.66	Brown
PAN-LCA2-38	LCA2-38-Q	2	3/8	1.97 x 0.66	Brown
PAN-LCA2-12	LCA2-12-Q	2	1/2	2.21 x 0.75	Brown
PAN-LCA1-14	LCA1-14-E	1	1/4	1.79 x 0.70	Green
PAN-LCA1-56	LCA1-56-E	1	5/16	1.92 x 0.70	Green
PAN-LCA1-38	LCA1-38-E	1	3/8	1.99 x 0.70	Green
PAN-LCA1-12	LCA1-12-E	1	1/2	2.23 x 0.75	Green
PAN-LCA1/0-14	LCA1/0-14-X	1/0	1/4	1.95 x 0.76	Pink
PAN-LCA1/0-56	LCA1/0-56-X	1/0	5/16	2.00 x 0.76	Pink
PAN-LCA1/0-38	LCA1/0-38-X	1/0	3/8	2.08 x 0.76	Pink
PAN-LCA1/0-12	LCA1/0-12-X	1/0	1/2	2.31 x 0.80	Pink
PAN-LCA2/0-14	LCA2/0-14-X	2/0	1/4	2.09 x 0.85	Black
PAN-LCA2/0-56	LCA2/0-56-X	2/0	5/16	2.09 x 0.85	Black
PAN-LCA2/0-38	LCA2/0-38-X	2/0	3/8	2.15 x 0.85	Black
PAN-LCA2/0-12	LCA2/0-12-X	2/0	1/2	2.40 x 0.85	Black
PAN-LCA3/0-14	LCA3/0-14-X	3/0	1/4	2.28 x 0.96	Orange
PAN-LCA3/0-56	LCA3/0-56-X	3/0	5/16	2.28 x 0.96	Orange
PAN-LCA3/0-38-X	LCA3/0-38-X	3/0	3/8	2.34 x 0.96	Orange
PAN-LCA3/0-12	LCA3/0-12-X	3/0	1/2	2.59 x 0.96	Orange
PAN-LCA4/0-14	LCA4/0-14-X	4/0	1/4	2.36 x 1.06	Purple
PAN-LCA4/0-56	LCA4/0-56-X	4/0	5/16	2.38 x 1.06	Purple
PAN-LCA4/0-38	LCA4/0-38-X	4/0	3/8	2.45 x 1.06	Purple
PAN-LCA4/0-12	LCA4/0-12-X	4/0	1/2	2.68 x 1.06	Purple
PAN-LCA250-14	LCA250-14-X	250	1/4	2.47 x 1.17	Yellow
PAN-LCA250-56	LCA250-56-X	250	5/16	2.48 x 1.17	Yellow

Compression Lugs - Copper

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Lug Length x Tongue Width (in.)	Color Code
PAN-LCA250-38	LCA250-38-X	250	3/8	2.55 x 1.17	Yellow
PAN-LCA250-12	LCA250-12-X	250	1/2	2.78 x 1.17	Yellow
PAN-LCA300-56	LCA300-56-X	300	5/16	2.94 x 1.19	White
PAN-LCA300-38	LCA300-38-X	300	3/8	2.94 x 1.19	White
PAN-LCA300-12	LCA300-12-X	300	1/2	3.05 x 1.19	White
PAN-LCA300-58	LCA300-58-X	300	5/8	3.26 x 1.19	White
LCA300-78-X	LCA300-78-X	300	7/8	3.70 x 1.19	White
LCA350-38-X	LCA350-38-X	350	3/8	2.98 x 1.28	Red
LCA350-12-X	LCA350-12-X	350	1/2	3.09 x 1.28	Red
PAN-LCA350-58	LCA350-58-X	350	5/8	3.30 x 1.28	Red
PAN-LCA350-78	LCA350-78-X	350	7/8	3.74 x 1.28	Red
PAN-LCA400-12-6	LCA400-12-6	400	1/2	3.22 x 1.39	Blue
LCA500-12-6	LCA500-12-6	500	1/2	3.55 x 1.54	Brown
LCA500-58-6	LCA500-58-6	500	5/8	3.76 x 1.54	Brown
LCA500-34-6	LCA500-34-6	500	3/4	3.90 x 1.54	Brown
LCA500-78-6	LCA500-78-6	500	7/8	4.15 x 1.54	Brown
LCA500-1-6	LCA500-1-6	500	1	4.27 x 1.54	Brown
LCA600-12-6	LCA600-12-6	600	1/2	4.20 x 1.70	Green
LCA600-58-6	LCA600-58-6	600	5/8	4.20 x 1.70	Green
LCA600-78-6	LCA600-78-6	600	7/8	4.20 x 1.70	Green
LCA750-58-6	LCA750-58-6	750	5/8	4.59 x 1.89	Black

Continued on next page >>

Compression Lugs - Copper

(continued) PAN-LUG Copper Compression, CODE Conductor, One-hole Lugs

ONE-HOLE LONG BARREL

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Lug Length x Tongue Width (in.)	Color Code
LCB8-10-L	LCB8-10-L	8	#10	1.44 x 0.41	Red
LCB8-14-L	LCB8-14-L	8	1/4	1.53 x 0.48	Red
LCB8-38-L	LCB8-38-L	8	3/8	1.75 x 0.60	Red
LCB6-38-L	LCB6-38-L	6	3/8	2.15 x 0.62	Blue
LCB4-10-L	LCB4-10-L	4 - 3 AWG Str., 2 AWG Sol.	#10	1.86 x 0.55	Gray
PAN-LCB4-14	LCB4-14-L	4 - 3 AWG Str., 2 AWG Sol.	1/4	1.95 x 0.55	Gray
LCB4-38-L	LCB4-38-L	4 - 3 AWG Str., 2 AWG Sol.	3/8	2.17 x 0.62	Gray
PAN-LCB2-10	LCB2-10-Q	2	#10	2.07 x 0.60	Brown
LCB2-56-Q	LCB2-56-Q	2	5/16	2.27 x 0.66	Brown
LCB2-38-Q	LCB2-38-Q	2	3/8	2.34 x 0.66	Brown
LCB1-10-E	LCB1-10-E	1	#10	2.30 x 0.70	Green
LCB1-56-E	LCB1-56-E	1	5/16	2.50 x 0.70	Green
PAN-LCB1-38-E	LCB1-38-E	1	3/8	2.57 x 0.70	Green
PAN-LCB1/0-10	LCB1/0-10-X	1/0	#10	2.41 x 0.76	Pink
PAN-LCB1/0-56	LCB1/0-56-X	1/0	5/16	2.61 x 0.76	Pink
PAN-LCB1/0-38	LCB1/0-38-X	1/0	3/8	2.69 x 0.76	Pink
PAN-LCB1/0-12	LCB1/0-12-X	1/0	1/2	2.92 x 0.80	Pink
PAN-LCB2/0-38	LCB2/0-38-X	2/0	3/8	2.82 x 0.85	Black
PAN-LCB2/0-12	LCB2/0-12-X	2/0	1/2	3.07 x 0.85	Black
PAN-LCB3/0-38	LCB3/0-38-X	3/0	3/8	2.87 x 0.96	Orange
PAN-LCB3/0-12	LCB3/0-12-X	3/0	1/2	3.12 x 0.96	Orange
LCB4/0-38-X	LCB4/0-38-X	4/0	3/8	3.03 x 1.06	Purple
PAN-LCB4/0-12	LCB4/0-12-X	4/0	1/2	3.22 x 1.06	Purple
LCB250-12-X	LCB250-12-X	250	1/2	3.32 x 1.17	Yellow
LCB250-78-X	LCB250-78-X	250	7/8	3.85 x 1.25	Yellow
LCB300-56-X	LCB300-56-X	300	5/16	3.95 x 1.19	White
LCB300-38-X	LCB300-38-X	300	3/8	3.95 x 1.19	White
PAN-LCB300-12-X	LCB300-12-X	300	1/2	4.06 x 1.19	White
LCB350-12-X	LCB350-12-X	350	1/2	4.11 x 1.28	Red
LCB350-78-X	LCB350-78-X	350	7/8	4.78 x 1.28	Red
LCB400-38-6	LCB400-38-6	400	3/8	4.27 x 1.39	Blue
LCB400-12-6	LCB400-12-6	400	1/2	4.27 x 1.39	Blue
LCB400-58-6	LCB400-58-6	400	5/8	4.48 x 1.39	Blue
LCB400-78-6	LCB400-78-6	400	7/8	4.88 x 1.39	Blue
LCB500-12-6	LCB500-12-6	500	1/2	4.53 x 1.54	Brown
LCB500-58-6	LCB500-58-6	500	5/8	4.74 x 1.54	Brown
LCB500-78-6	LCB500-78-6	500	7/8	5.13 x 1.54	Brown
LCB600-12-6	LCB600-12-6	600	1/2	5.40 x 1.70	Green
LCB600-58-6	LCB600-58-6	600	5/8	5.40 x 1.70	Green
LCB750-58-6	LCB750-58-6	750	5/8	5.98 x 1.89	Black
LCB750-78-6	LCB750-78-6	750	7/8	6.07 x 1.89	Black
LCB800-58-6	LCB800-58-6	800	5/8	6.06 x 1.95	Orange
LCB1000-58-3	LCB1000-58-3	1000	5/8	6.32 x 2.17	White

Compression Lugs - Copper

PAN-LUG Copper Compression, CODE Conductor, Two-hole Lugs

PANDUIT

FEATURES

- Color-coded barrels marked with PANDUIT and specified competitor die index numbers for proper crimp die selection
- UL Listed and CSA Certified to 35 kV and temperature rated to 90°C when crimped with PANDUIT and specified competitor crimping tools and dies
- Tested by Telcordia - meets NEBS Level 3

APPLICATIONS

For use with stranded copper CODE conductors.

TWO-HOLE STANDARD BARREL WITH WINDOW

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Stud Hole Spacing (in.)	Lug Length x Tongue Width (in.)	Color Code
PAN-LCD8-10A	LCD8-10A-L	8	#10	5/8	1.88 x 0.41	Red
PAN-LCD8-14A	LCD8-14A-L	8	1/4	5/8	1.97 x 0.48	Red
LCD8-14D-L	LCD8-14D-L	8	1/4	1	2.34 x 0.48	Red
LCD8-38D-L	LCD8-38D-L	8	3/8	1	2.56 x 0.60	Red
PAN-LCD6-10A	LCD6-10A-L	6	#10	5/8	2.15 x 0.46	Blue
LCD6-10B-L	LCD6-10B-L	6	#10	3/4	2.27 x 0.46	Blue
LCD6-10D-L	LCD6-10D-L	6	#10	1	2.52 x 0.46	Blue
PAN-LCD6-14A	LCD6-14A-L	6	1/4	5/8	2.24 x 0.48	Blue
PAN-LCD6-14B	LCD6-14B-L	6	1/4	3/4	2.36 x 0.48	Blue
PAN-LCD6-14D	LCD6-14D-L	6	1/4	1	2.61 x 0.48	Blue
PAN-LCD6-56D	LCD6-56D-L	6	5/16	1	2.73 x 0.56	Blue
PAN-LCD6-38D	LCD6-38D-L	6	3/8	1	2.83 x 0.62	Blue
LCD4-10A-L	LCD4-10A-L	4 - 3 AWG Str., 2 AWG Sol.	#10	5/8	2.17 x 0.55	Gray
LCD4-10B-L	LCD4-10B-L	4 - 3 AWG Str., 2 AWG Sol.	#10	3/4	2.29 x 0.55	Gray
PAN-LCD4-14A	LCD4-14A-L	4 - 3 AWG Str., 2 AWG Sol.	1/4	5/8	2.26 x 0.55	Gray
LCD4-14B-L	LCD4-14B-L	4 - 3 AWG Str., 2 AWG Sol.	1/4	3/4	2.38 x 0.55	Gray
PAN-LCD4-14D	LCD4-14D-L	4 - 3 AWG Str., 2 AWG Sol.	1/4	1	2.63 x 0.55	Gray
PAN-LCD4-38D	LCD4-38D-L	4 - 3 AWG Str., 2 AWG Sol.	3/8	1	2.85 x 0.62	Gray
PAN-LCD2-14A	LCD2-14A-Q	2	1/4	5/8	2.40 x 0.60	Brown
PAN-LCD2-14B	LCD2-14B-Q	2	1/4	3/4	2.52 x 0.60	Brown
LCD2-14D-Q	LCD2-14D-Q	2	1/4	1	2.77 x 0.60	Brown
LCD2-56B-Q	LCD2-56B-Q	2	5/16	3/4	2.65 x 0.66	Brown
PAN-LCD2-38D	LCD2-38D-Q	2	3/8	1	3.00 x 0.66	Brown
LCD2-12-Q	LCD2-12-Q	2	1/2	1 3/4	4.14 x 0.75	Brown
PAN-LCD1-14A-E	LCD1-14A-E	1	1/4	5/8	2.42 x 0.70	Green
PAN-LCD1-14B	LCD1-14B-E	1	1/4	3/4	2.54 x 0.70	Green
LCD1-56C-E	LCD1-56C-E	1	5/16	7/8	2.79 x 0.70	Green
PAN-LCD1-38D	LCD1-38D-E	1	3/8	1	2.99 x 0.70	Green
LCD1-12-E	LCD1-12-E	1	1/2	1 3/4	4.16 x 0.75	Green
PAN-LCD1/0-14A	LCD1/0-14A-X	1/0	1/4	5/8	2.57 x 0.76	Pink
PAN-LCD1/0-14B	LCD1/0-14B-X	1/0	1/4	3/4	2.70 x 0.76	Pink
LCD1/0-56C-X	LCD1/0-56C-X	1/0	5/16	7/8	2.88 x 0.76	Pink
PAN-LCD1/0-38D	LCD1/0-38D-X	1/0	3/8	1	3.08 x 0.76	Pink
LCD1/0-12-X	LCD1/0-12-X	1/0	1/2	1 3/4	4.25 x 0.80	Pink
PAN-LCD2/0-14A	LCD2/0-14A-X	2/0	1/4	5/8	2.70 x 0.85	Black
LCD2/0-14B-X	LCD2/0-14B-X	2/0	1/4	3/4	2.83 x 0.85	Black
LCD2/0-56C-X	LCD2/0-56C-X	2/0	5/16	7/8	2.95 x 0.85	Black
PAN-LCD2/0-38D	LCD2/0-38D-X	2/0	3/8	1	3.14 x 0.85	Black
PAN-LCD2/0-12	LCD2/0-12-X	2/0	1/2	1 3/4	4.30 x 0.85	Black

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Compression Lugs - Copper

(continued) PAN-LUG Copper Compression, CODE Conductor, Two-hole Lugs

TWO-HOLE STANDARD BARREL WITH WINDOW

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Stud Hole Spacing (in.)	Lug Length x Tongue Width (in.)	Color Code
LCD3/0-14B-X	LCD3/0-14B-X	3/0	1/4	3/4	3.02 x 0.96	Orange
LCD3/0-56D-X	LCD3/0-56D-X	3/0	5/16	1	3.27 x 0.96	Orange
LCD3/0-12-X	LCD3/0-12-X	3/0	1/2	1 3/4	4.49 x 0.96	Orange
LCD4/0-14B-X	LCD4/0-14B-X	4/0	1/4	3/4	3.10 x 1.06	Purple
PAN-LCD4/0-38D	LCD4/0-38D-X	4/0	3/8	1	3.44 x 1.06	Purple
PAN-LCD4/0-12	LCD4/0-12-X	4/0	1/2	1 3/4	4.58 x 1.06	Purple
PAN-LCD250-38D	LCD250-38D-X	250	3/8	1	3.54 x 1.17	Yellow
LCD250-12-X	LCD250-12-X	250	1/2	1 3/4	4.68 x 1.17	Yellow
LCD300-38D-X	LCD300-38D-X	300	3/8	1	3.74 x 1.19	White
LCD300-12-X	LCD300-12-X	300	1/2	1 3/4	4.92 x 1.19	White
LCD350-14B-X	LCD350-14B-X	350	1/4	3/4	3.30 x 1.28	Red
LCD350-38D-X	LCD350-38D-X	350	3/8	1	3.78 x 1.28	Red
LCD350-12E-X	LCD350-12E-X	350	1/2	1 1/4	4.33 x 1.28	Red
LCD350-12-X	LCD350-12-X	350	1/2	1 3/4	4.96 x 1.28	Red
LCD400-38D-6	LCD400-38D-6	400	3/8	1	3.86 x 1.39	Blue
LCD400-12-6	LCD400-12-6	400	1/2	1 3/4	5.04 x 1.39	Blue
LCD500-14B-6	LCD500-14B-6	500	1/4	3/4	3.71 x 1.54	Brown
LCD500-38D-6	LCD500-38D-6	500	3/8	1	4.19 x 1.54	Brown
LCD500-12E-6	LCD500-12E-6	500	1/2	1 1/4	4.74 x 1.54	Brown
LCD500-12-6	LCD500-12-6	500	1/2	1 3/4	5.37 x 1.54	Brown
LCD600-38D-6	LCD600-38D-6	600	3/8	1	4.24 x 1.70	Green
PAN-LCD600-12-6	LCD600-12-6	600	1/2	1 3/4	5.42 x 1.70	Green
LCD750-12-6	LCD750-12-6	750	1/2	1 3/4	5.65 x 1.89	Black

Compression Lugs - Copper

PAN-LUG Copper Compression, CODE Conductor, Two-hole Lugs

PANDUIT

FEATURES

- Color-coded barrels marked with PANDUIT and specified competitor die index numbers for proper crimp die selection
- UL Listed and CSA Certified to 35 kV and temperature rated to 90°C when crimped with PANDUIT and specified competitor crimping tools and dies
- Tested by Telcordia - meets NEBS Level 3

APPLICATIONS

For use with stranded copper CODE conductors.

TWO-HOLE LONG BARREL WITH WINDOW

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Stud Hole Spacing (in.)	Lug Length x Tongue Width (in.)	Color Code
LCC8-10AW-L	LCC8-10AW-L	8	#10	5/8	2.01 x 0.41	Red
LCC8-10BW-L	LCC8-10BW-L	8	#10	3/4	2.14 x 0.41	Red
LCC8-10ABW-L	LCC8-10ABW-L	8	#10	5/8 - 3/4	2.14 x 0.41	Red
LCC8-14AW-L	LCC8-14AW-L	8	1/4	5/8	2.10 x 0.48	Red
LCC8-14BW-L	LCC8-14BW-L	8	1/4	3/4	2.23 x 0.48	Red
LCC8-14ABW-L	LCC8-14ABW-L	8	1/4	5/8 - 3/4	2.23 x 0.48	Red
LCC8-14DW-L	LCC8-14DW-L	8	1/4	1	2.48 x 0.48	Red
LCC8-38DW-L	LCC8-38DW-L	8	3/8	1	2.70 x 0.60	Red
LCC6-10BW-L	LCC6-10BW-L	6	#10	3/4	2.52 x 0.46	Blue
LCC6-10ABW-L	LCC6-10ABW-L	6	#10	5/8 - 3/4	2.52 x 0.46	Blue
LCC6-14JW-L	LCC6-14JW-L	6	1/4	1/2	2.36 x 0.48	Blue
270844	LCC6-14AW-L	6	1/4	5/8	2.49 x 0.48	Blue
306860	LCC6-14JAW-L	6	1/4	1/2 - 5/8	2.49 x 0.48	Blue
LCC6-14BW-L	LCC6-14BW-L	6	1/4	3/4	2.61 x 0.48	Blue
LCC6-14DW-L	LCC6-14DW-L	6	1/4	1	2.86 x 0.48	Blue
LCC6-14BDW-L	LCC6-14BDW-L	6	1/4	3/4 - 1	2.86 x 0.48	Blue
327880	LCC6-14EW-L	6	1/4	1 1/4	3.11 x 0.48	Blue
LCC6-14W-L	LCC6-14W-L	6	1/4	1 3/4	3.61 x 0.48	Blue
LCC6-56BW-L	LCC6-56BW-L	6	5/16	3/4	2.73 x 0.56	Blue
LCC6-38BW-L	LCC6-38BW-L	6	3/8	3/4	2.83 x 0.62	Blue
LCC6-38CW-L	LCC6-38CW-L	6	3/8	7/8	2.96 x 0.62	Blue
270847	LCC6-38DW-L	6	3/8	1	3.08 x 0.62	Blue
LCC6-38BDW-L	LCC6-38BDW-L	6	3/8	3/4 - 1	3.08 x 0.62	Blue
LCC6-12W-L	LCC6-12W-L	6	1/2	1 3/4	5.00 x 0.75	Blue
LCC4-10AW-L	LCC4-10AW-L	4 - 3 AWG Str., 2 AWG Sol.	#10	5/8	2.40 x 0.55	Gray
LCC4-10BW-L	LCC4-10BW-L	4 - 3 AWG Str., 2 AWG Sol.	#10	3/4	2.53 x 0.55	Gray
LCC4-14AW-L	LCC4-14AW-L	4 - 3 AWG Str., 2 AWG Sol.	1/4	5/8	2.50 x 0.55	Gray
LCC4-14BW-L	LCC4-14BW-L	4 - 3 AWG Str., 2 AWG Sol.	1/4	3/4	2.63 x 0.55	Gray
LCC4-14DW-L	LCC4-14DW-L	4 - 3 AWG Str., 2 AWG Sol.	1/4	1	2.63 x 0.55	Gray
LCC4-14ADW-L	LCC4-14ADW-L	4 - 3 AWG Str., 2 AWG Sol.	1/4	5/8 - 1	2.87 x 0.55	Gray
LCC4-38DW-L	LCC4-38DW-L	4 - 3 AWG Str., 2 AWG Sol.	3/8	1	3.09 x 0.62	Gray
LCC4-12W-L	LCC4-12W-L	4 - 3 AWG Str., 2 AWG Sol.	1/4	1 3/4	5.06 x 0.75	Gray
LCC2-10AW-Q	LCC2-10AW-Q	2	#10	5/8	2.57 x 0.60	Brown
LCC2-10BW-Q	LCC2-10BW-Q	2	#10	3/4	2.69 x 0.60	Brown
LCC2-14AW-Q	LCC2-14AW-Q	2	1/4	5/8	2.67 x 0.60	Brown
LCC2-14BW-Q	LCC2-14BW-Q	2	1/4	3/4	2.79 x 0.60	Brown
LCC2-14DW-Q	LCC2-14DW-Q	2	1/4	1	3.04 x 0.60	Brown
LCC2-56BW-Q	LCC2-56BW-Q	2	5/16	3/4	2.92 x 0.66	Brown
LCC2-56CW-Q	LCC2-56CW-Q	2	5/16	7/8	3.04 x 0.66	Brown

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Compression Lugs - Copper

(continued) PAN-LUG Copper Compression, CODE Conductor, Two-hole Lugs

TWO-HOLE LONG BARREL WITH WINDOW

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Stud Hole Spacing (in.)	Lug Length x Tongue Width (in.)	Color Code
LCC2-38BW-Q	LCC2-38BW-Q	2	3/8	3/4	2.99 x 0.66	Brown
LCC2-38CW-Q	LCC2-38CW-Q	2	3/8	7/8	3.12 x 0.66	Brown
326838	LCC2-38DW-Q	2	3/8	1	3.24 x 0.66	Brown
LCC2-38W-Q	LCC2-38W-Q	2	3/8	1 3/4	3.99 x 0.66	Brown
LCC2-12W-Q	LCC2-12W-Q	2	1/2	1 3/4	4.41 x 0.75	Brown
LCC1-14AW-E	LCC1-14AW-E	1	1/4	5/8	2.89 x 0.70	Green
LCC1-14BW-E	LCC1-14BW-E	1	1/4	3/4	3.01 x 0.70	Green
LCC1-56BW-E	LCC1-56BW-E	1	5/16	3/4	3.14 x 0.70	Green
LCC1-56CW-E	LCC1-56CW-E	1	5/16	7/8	3.26 x 0.70	Green
LCC1-38DW-E	LCC1-38DW-E	1	3/8	1	3.46 x 0.70	Green
LCC1-12W-E	LCC1-12W-E	1	1/2	1 3/4	4.63 x 0.75	Green
LCC1/0-14AW-X	LCC1/0-14AW-X	1/0	1/4	5/8	3.07 x 0.76	Pink
LCC1/0-14BW-X	LCC1/0-14BW-X	1/0	1/4	3/4	3.19 x 0.76	Pink
LCC1/0-14DW-X	LCC1/0-14DW-X	1/0	1/4	1	3.44 x 0.76	Pink
LCC1/0-38DW-X	LCC1/0-38DW-X	1/0	3/8	1	3.57 x 0.76	Pink
LCC1/0-38W-X	LCC1/0-38W-X	1/0	3/8	1 3/4	4.32 x 0.76	Pink
LCC1/0-12DW-X	LCC1/0-12DW-X	1/0	1/2	1	3.84 x 0.80	Pink
LCC1/0-12W-X	LCC1/0-12W-X	1/0	1/2	1 3/4	4.74 x 0.80	Pink
318578	LCC2/0-14AW-X	2/0	1/4	5/8	3.23 x 0.85	Black
LCC2/0-14BW-X	LCC2/0-14BW-X	2/0	1/4	3/4	3.36 x 0.85	Black
LCC2/0-56DW-X	LCC2/0-56DW-X	2/0	5/16	1	3.61 x 0.85	Black
LCC2/0-38DW-X	LCC2/0-38DW-X	2/0	3/8	1	3.67 x 0.85	Black
LCC2/0-12DW-X	LCC2/0-12DW-X	2/0	1/2	1	3.92 x 0.85	Black
LCC2/0-12W-X	LCC2/0-12W-X	2/0	1/2	1 3/4	4.83 x 0.85	Black
LCC3/0-14BW-X	LCC3/0-14BW-X	3/0	1/4	3/4	3.39 x 0.96	Orange
LCC3/0-56DW-X	LCC3/0-56DW-X	3/0	5/16	1	3.64 x 0.96	Orange
326839	LCC3/0-38DW-X	3/0	3/8	1	3.70 x 0.96	Orange
LCC3/0-12DW-X	LCC3/0-12DW-X	3/0	1/2	1	3.95 x 0.96	Orange
LCC3/0-12W-X	LCC3/0-12W-X	3/0	1/2	1 3/4	4.87 x 0.96	Orange
LCC4/0-14AW-X	LCC4/0-14AW-X	4/0	1/4	5/8	3.35 x 1.06	Purple
LCC4/0-14BW-X	LCC4/0-14BW-X	4/0	1/4	3/4	3.48 x 1.06	Purple
LCC4/0-56DW-X	LCC4/0-56DW-X	4/0	5/16	1	3.74 x 1.06	Purple
LCC4/0-38DW-X	LCC4/0-38DW-X	4/0	3/8	1	3.81 x 1.06	Purple
LCC4/0-38W-X	LCC4/0-38W-X	4/0	3/8	1 3/4	4.56 x 1.06	Purple
LCC4/0-12DW-X	LCC4/0-12DW-X	4/0	1/2	1	4.04 x 1.06	Purple
LCC4/0-12W-X	LCC4/0-12W-X	4/0	1/2	1 3/4	4.95 x 1.06	Purple
LCC250-56DW-X	LCC250-56DW-X	250	5/16	1	3.82 x 1.17	Yellow
LCC250-38DW-X	LCC250-38DW-X	250	3/8	1	3.89 x 1.17	Yellow
LCC250-12DW-X	LCC250-12DW-X	250	1/2	1	4.12 x 1.17	Yellow
LCC250-12W-X	LCC250-12W-X	250	1/2	1 3/4	5.03 x 1.17	Yellow
LCC300-38DW-X	LCC300-38DW-X	300	3/8	1	4.54 x 1.19	White
LCC300-12W-X	LCC300-12W-X	300	1/2	1 3/4	5.72 x 1.19	White
LCC350-14BW-X	LCC350-14BW-X	350	1/4	3/4	4.10 x 1.28	Red
LCC350-38DW-X	LCC350-38DW-X	350	3/8	1	4.58 x 1.28	Red
LCC350-12W-X	LCC350-12W-X	350	1/2	1 3/4	5.76 x 1.28	Red
LCC400-14BW-6	LCC400-14BW-6	400	1/4	3/4	4.18 x 1.39	Blue
LCC400-38DW-6	LCC400-38DW-6	400	3/8	1	4.66 x 1.39	Blue
LCC400-12W-6	LCC400-12W-6	400	1/2	1 3/4	5.84 x 1.28	Blue
LCC500-14BW-6	LCC500-14BW-6	500	1/4	3/4	4.46 x 1.54	Brown

Compression Lugs - Copper

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Stud Hole Spacing (in.)	Lug Length x Tongue Width (in.)	Color Code
LCC500-38DW-6	LCC500-38DW-6	500	3/8	1	4.94 x 1.54	Brown
LCC500-12W-6	LCC500-12W-6	500	1/2	1 3/4	6.12 x 1.54	Brown
LCC600-38DW-6	LCC600-38DW-6	600	3/8	1	5.18 x 1.70	Green
LCC600-12W-6	LCC600-12W-6	600	1/2	1 3/4	6.36 x 1.70	Green
LCC750-38DW-6	LCC750-38DW-6	750	3/8	1	5.71 x 1.89	Black
LCC750-12W-6	LCC750-12W-6	750	1/2	1 3/4	6.65 x 1.89	Black
LCC800-12W-6	LCC800-12W-6	800	1/2	1 3/4	6.74 x 1.95	Orange
LCC1000-38DW-3	LCC1000-38DW-3	1000	3/8	1	5.95 x 2.17	White
LCC1000-12W-3	LCC1000-12W-3	1000	1/2	1 3/4	6.89 x 2.17	White

PAN-LUG Copper Compression, CODE Conductor, Two-hole Lugs

PANDUIT

FEATURES

- Color-coded barrels marked with PANDUIT and specified competitor die index numbers for proper crimp die selection
- UL Listed and CSA Certified to 35 kV and temperature rated to 90°C when crimped with PANDUIT and specified competitor crimping tools and dies
- Tested by Telcordia - meets NEBS Level 3

APPLICATIONS

For use with stranded copper CODE conductors.

TWO-HOLE LONG BARREL

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Stud Hole Spacing (in.)	Lug Length x Tongue Width (in.)	Color Code
PAN-LCC1/0-12	LCC1/0-12-X	1/0	1/2	1 3/4	4.86 x 0.80	Pink
LCC1/0-38D-X	LCC1/0-38D-X	1/0	3/8	1	3.69 x 0.76	Pink
PAN-LCC2/0-12	LCC2/0-12-X	2/0	1/2	1 3/4	4.98 x 0.85	Black
LCC2/0-38D-X	LCC2/0-38D-X	2/0	3/8	1	3.82 x 0.85	Black
PAN-LCC3/0-12	LCC3/0-12-X	3/0	1/2	1 3/4	5.03 x 0.96	Orange
PAN-LCC3/0-38D	LCC3/0-38D-X	3/0	3/8	1	3.87 x 0.96	Orange
PAN-LCC4/0-12	LCC4/0-12-X	4/0	1/2	1 3/4	5.13 x 1.06	Purple
LCC4/0-38D-X	LCC4/0-38D-X	4/0	3/8	1	4.74 x 1.06	Purple
PAN-LCC250-12	LCC250-12-X	250	1/2	1 3/4	5.23 x 1.07	Yellow
LCC250-38D-X	LCC250-38D-X	250	3/8	1	4.09 x 1.17	Yellow
PAN-LCC350-12	LCC350-12-X	350	1/2	1 3/4	5.99 x 1.28	Red
LCC350-38D-X	LCC350-38D-X	350	3/8	1	4.81 x 1.28	Red
252604	LCC500-12-6	500	1/2	1 3/4	6.36 x 1.54	Brown
LCC500-38D-6	LCC500-38D-6	500	3/8	1	5.18 x 1.54	Brown
LCC600-12-6	LCC600-12-6	600	1/2	1 3/4	6.63 x 1.70	Green
LCC600-38D-6	LCC600-38D-6	600	3/8	1	5.45 x 1.70	Green
252606	LCC750-12-6	750	1/2	1 3/4	7.04 x 1.89	Black
LCC750-38D-6	LCC750-38D-6	750	3/8	1	6.10 x 1.89	Black
PAN-LCC1000-12	LCC1000-12-3	1000	1/2	1 3/4	7.29 x 2.17	White
LCC1000-38D-3	LCC1000-38D-3	1000	3/8	1	6.35 x 2.17	White

Compression Lugs - Copper

PAN-LUG Copper Compression, FLEX Conductor, One-hole Lugs

PANDUIT

FEATURES

- Can be used with CODE conductor and FLEX conductor class G, H, I, K, M and locomotive
- Color-coded barrels marked with PANDUIT and specified competitor die index numbers for proper crimp die selection
- UL Listed and CSA Certified to 35 kV and temperature rated to 90°C when crimped with PANDUIT and specified competitor crimping tools and dies

APPLICATIONS

For use with flexible, extra-flexible and CODE stranded copper conductors.

ONE-HOLE STANDARD BARREL WITH WINDOW

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Lug Length x Tongue Width (in.)	Color Code
PAN-LCAX8-10-L	LCAX8-10-L	8	#10	1.11 x 0.41	Red
PAN-LCAX8-14-L	LCAX8-14-L	8	1/4	1.20 x 0.48	Red
PAN-LCAX8-56-L	LCAX8-56-L	8	5/16	1.32 x 0.56	Red
PAN-LCAX8-38-L	LCAX8-38-L	8	3/8	1.42 x 0.60	Red
PAN-LCAX6-10-L	LCAX6-10-L	6	#10	1.19 x 0.45	Blue
PAN-LCAX6-14-L	LCAX6-14-L	6	1/4	1.28 x 0.48	Blue
PAN-LCAX6-56-L	LCAX6-56-L	6	5/16	1.40 x 0.56	Blue
PAN-LCAX6-38-L	LCAX6-38-L	6	3/8	1.50 x 0.62	Blue
PAN-LCAX4-10-L	LCAX4-10-L	4/#5,#4,#3	#10	1.26 x 0.55	Gray
PAN-LCAX4-14-L	LCAX4-14-L	4/#5,#4,#3	1/4	1.35 x 0.55	Gray
PAN-LCAX4-56-L	LCAX4-56-L	4/#5,#4,#3	5/16	1.47 x 0.55	Gray
PAN-LCAX4-38-L	LCAX4-38-L	4/#5,#4,#3	3/8	1.57 x 0.62	Gray
LCAX2-10-E	LCAX2-10-E	2	#10	1.40 x 0.70	Brown
LCAX2-14-E	LCAX2-14-E	2	1/4	1.50 x 0.70	Brown
LCAX2-56-E	LCAX2-56-E	2	5/16	1.63 x 0.70	Brown
LCAX2-38-E	LCAX2-38-E	2	3/8	1.70 x 0.70	Brown
LCAX2-12-E	LCAX2-12-E	2	1/2	1.94 x 0.75	Brown
LCAX1-10-X	LCAX1-10-X	1	#10	1.50 x 0.76	Green
PAN-LCAX1-14-X	LCAX1-14-X	1	1/4	1.67 x 0.76	Green
PAN-LCAX1-56-X	LCAX1-56-X	1	5/16	1.72 x 0.76	Green
PAN-LCAX1-38-X	LCAX1-38-X	1	3/8	1.80 x 0.76	Green
PAN-LCAX1-12-X	LCAX1-12-X	1	1/2	2.03 x 0.80	Green
PAN-LCAX1/0-14-X	LCAX1/0-14-X	1/0	1/4	1.82 x 0.85	Pink
PAN-LCAX1/0-56-X	LCAX1/0-56-X	1/0	5/16	1.82 x 0.85	Pink
PAN-LCAX1/0-38-X	LCAX1/0-38-X	1/0	3/8	1.89 x 0.85	Pink
PAN-LCAX1/0-12-X	LCAX1/0-12-X	1/0	1/2	2.14 x 0.85	Pink
LCAX2/0-10-X	LCAX2/0-10-X	2/0	#10	1.72 x 0.96	Black
PAN-LCAX2/0-14-X	LCAX2/0-14-X	2/0	1/4	1.97 x 0.96	Black
PAN-LCAX2/0-56-X	LCAX2/0-56-X	2/0	5/16	1.97 x 0.96	Black
PAN-LCAX2/0-38-X	LCAX2/0-38-X	2/0	3/8	2.03 x 0.96	Black
PAN-LCAX2/0-12-X	LCAX2/0-12-X	2/0	1/2	2.28 x 0.96	Black
LCAX2/0-58-X	LCAX2/0-58-X	2/0	5/8	2.52 x 0.96	Black
LCAX2/0-34-X	LCAX2/0-34-X	2/0	3/4	2.88 x 0.96	Black
LCAX3/0-10-X	LCAX3/0-10-X	3/0	#10	1.84 x 1.06	Orange
PAN-LCAX3/0-14-X	LCAX3/0-14-X	3/0	1/4	2.08 x 1.06	Orange
PAN-LCAX3/0-56-X	LCAX3/0-56-X	3/0	5/16	2.10 x 1.06	Orange
PAN-LCAX3/0-38-X	LCAX3/0-38-X	3/0	3/8	2.17 x 1.06	Orange
PAN-LCAX3/0-12-X	LCAX3/0-12-X	3/0	1/2	2.40 x 1.06	Orange
PAN-LCAX4/0-14-X	LCAX4/0-14-X	4/0	1/4	2.30 x 1.19	Purple

Compression Lugs - Copper

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Lug Length x Tongue Width (in.)	Color Code
PAN-LCAX4/0-56-X	LCAX4/0-56-X	4/0	5/16	2.53 x 1.19	Purple
PAN-LCAX4/0-38-X	LCAX4/0-38-X	4/0	3/8	2.53 x 1.19	Purple
PAN-LCAX4/0-12-X	LCAX4/0-12-X	4/0	1/2	2.64 x 1.19	Purple
LCAX4/0-58-X	LCAX4/0-58-X	4/0	5/8	2.85 x 1.19	Purple
LCAX4/0-34-X	LCAX4/0-34-X	4/0	3/4	3.04 x 1.19	Purple
LCAX250-14-X	LCAX250-14-X	250	1/4	2.34 x 1.28	Yellow
LCAX250-56-X	LCAX250-56-X	250	5/16	2.57 x 1.28	Yellow
PAN-LCAX250-38-X	LCAX250-38-X	250	3/8	2.57 x 1.28	Yellow
LCAX250-12-X	LCAX250-12-X	250	1/2	2.68 x 1.28	Yellow
LCAX250-58-X	LCAX250-58-X	250	5/8	2.89 x 1.28	Yellow
LCAX250-34-X	LCAX250-34-X	250	3/4	3.08 x 1.28	Yellow
PAN-LCAX300-38-6	LCAX300-38-6	300	3/8	2.91 x 1.39	Red
PAN-LCAX300-12-6	LCAX300-12-6	300	1/2	2.91 x 1.39	Red
PAN-LCAX300-58-6	LCAX300-58-6	300	5/8	3.12 x 1.39	Red
LCAX350-56-6	LCAX350-56-6	350	5/16	2.93 x 1.54	Blue
PAN-LCAX350-38-6	LCAX350-38-6	350	3/8	2.93 x 1.54	Blue
LCAX350-12-6	LCAX350-12-6	350	1/2	3.09 x 1.54	Blue
LCAX350-58-6	LCAX350-58-6	350	5/8	3.30 x 1.54	Blue
PAN-LCAX450-12-6	LCAX450-12-6	450	1/2	3.60 x 1.70	Brown
PAN-LCAX450-58-6	LCAX450-58-6	450	5/8	3.73 x 1.70	Brown
LCAX500-56-6	LCAX500-56-6	500	5/16	3.27 x 1.89	Pink
LCAX500-38-6	LCAX500-38-6	500	3/8	3.27 x 1.89	Pink
LCAX500-12-6	LCAX500-12-6	500	1/2	3.64 x 1.89	Pink
PAN-LCAX500-58-6	LCAX500-58-6	500	5/8	4.20 x 1.89	Pink
LCAX650-38-6	LCAX650-38-6	650	3/8	3.27 x 1.95	Black
LCAX650-12-6	LCAX650-12-6	650	1/2	3.64 x 1.95	Black
LCAX750-12-3	LCAX750-12-3	750	1/2	3.94 x 2.17	Yellow
LCAX750-58-3	LCAX750-58-3	750	5/8	4.59 x 2.17	Yellow

ONE-HOLE LONG BARREL WITH WINDOW

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Lug Length x Tongue Width (in.)	Color Code
LCBX8-10-L	LCBX8-10-L	8	#10	1.39 x 0.41	Red
LCBX8-14-L	LCBX8-14-L	8	1/4	1.48 x 0.48	Red
LCBX8-38-L	LCBX8-38-L	8	3/8	1.70 x 0.60	Red
LCBX6-14-L	LCBX6-14-L	6	1/4	1.86 x 0.48	Blue
LCBX6-38-L	LCBX6-38-L	6	3/8	2.08 x 0.62	Blue
LCBX4-14-L	LCBX4-14-L	4/#5,#4,#3	1/4	1.87 x 0.55	Gray
LCBX4-38-L	LCBX4-38-L	4/#5,#4,#3	3/8	2.09 x 0.62	Gray
LCBX2-14-E	LCBX2-14-E	2	1/4	2.26 x 0.70	Brown
LCBX2-38-E	LCBX2-38-E	2	3/8	2.46 x 0.70	Brown
LCBX2-12-E	LCBX2-12-E	2	1/2	2.70 x 0.75	Brown
LCBX1-14-X	LCBX1-14-X	1	1/4	2.44 x 0.76	Green
LCBX1-56-X	LCBX1-56-X	1	5/16	2.50 x 0.76	Green
LCBX1-38-X	LCBX1-38-X	1	3/8	2.57 x 0.76	Green
LCBX1/0-14-X	LCBX1/0-14-X	1/0	1/4	2.61 x 0.85	Pink
LCBX1/0-38-X	LCBX1/0-38-X	1/0	3/8	2.67 x 0.85	Pink
LCBX1/0-12-X	LCBX1/0-12-X	1/0	1/2	2.92 x 0.85	Pink
LCBX2/0-14-X	LCBX2/0-14-X	2/0	1/4	2.64 x 0.96	Black
LCBX2/0-38-X	LCBX2/0-38-X	2/0	3/8	2.70 x 0.96	Black
LCBX2/0-12-X	LCBX2/0-12-X	2/0	1/2	2.96 x 0.96	Black
LCBX3/0-38-X	LCBX3/0-38-X	3/0	3/8	2.81 x 1.06	Orange
LCBX4/0-38-X	LCBX4/0-38-X	4/0	3/8	3.74 x 1.19	Purple

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Compression Lugs - Copper

(continued) PAN-LUG Copper Compression, FLEX Conductor, One-hole Lugs

ONE-HOLE LONG BARREL WITH WINDOW

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Lug Length x Tongue Width (in.)	Color Code
LCBX4/0-12-X	LCBX4/0-12-X	4/0	1/2	3.85 x 1.19	Purple
LCBX250-38-X	LCBX250-38-X	250	3/8	3.78 x 1.28	Yellow
LCBX300-38-6	LCBX300-38-6	300	3/8	4.02 x 1.39	Red
LCBX350-38-6	LCBX350-38-6	350	3/8	4.14 x 1.54	Blue
LCBX350-12-6	LCBX350-12-6	350	1/2	4.30 x 1.54	Blue
LCBX450-38-6	LCBX450-38-6	450	3/8	5.14 x 1.70	Brown
LCBX500-38-6	LCBX500-38-6	500	3/8	4.84 x 1.89	Pink
LCBX500-12-6	LCBX500-12-6	500	1/2	5.03 x 1.89	Pink

PAN-LUG Copper Compression, FLEX Conductor, Two-hole Lugs

PANDUIT

FEATURES

- Can be used with CODE conductor and FLEX conductor class G, H, I, K, M and locomotive
- Color-coded barrels marked with PANDUIT and specified competitor die index numbers for proper crimp die selection
- UL Listed and CSA Certified to 35 kV and temperature rated to 90°C when crimped with PANDUIT and specified competitor crimping tools and dies

APPLICATIONS

For use with flexible, extra-flexible and CODE stranded copper conductors.

TWO-HOLE STANDARD BARREL WITH WINDOWS

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Stud Hole Spacing (in.)	Lug Length x Tongue Width (in.)	Color Code
LCDX8-10A-L	LCDX8-10A-L	8	#10	5/8	1.74 x 0.41	Red
LCDX8-14A-L	LCDX8-14A-L	8	1/4	5/8	1.83 x 0.48	Red
LCDX8-14B-L	LCDX8-14B-L	8	1/4	3/4	1.95 x 0.48	Red
LCDX8-14D-L	LCDX8-14D-L	8	1/4	1	2.20 x 0.48	Red
LCDX8-38D-L	LCDX8-38D-L	8	3/8	1	2.42 x 0.60	Red
LCDX6-10A-L	LCDX6-10A-L	6	#10	5/8	1.82 x 0.46	Blue
LCDX6-10B-L	LCDX6-10B-L	6	#10	3/4	1.94 x 0.46	Blue
LCDX6-10G-L	LCDX6-10G-L	6	#10	1 1/2	2.69 x 0.46	Blue
LCDX6-10P-L	LCDX6-10P-L	6	#10	5/8	1.88 x 0.46	Blue
LCDX6-14A-L	LCDX6-14A-L	6	1/4	5/8	1.91 x 0.48	Blue
LCDX6-14B-L	LCDX6-14B-L	6	1/4	3/4	2.03 x 0.48	Blue
LCDX6-14D-L	LCDX6-14D-L	6	1/4	1	2.28 x 0.48	Blue
LCDX6-56D-L	LCDX6-56D-L	6	5/16	1	2.40 x 0.56	Blue
LCDX6-38D-L	LCDX6-38D-L	6	3/8	1	2.50 x 0.62	Blue
LCDX4-14A-L	LCDX4-14A-L	4/#5,#4,#3	1/4	5/8	1.98 x 0.55	Gray
LCDX4-14B-L	LCDX4-14B-L	4/#5,#4,#3	1/4	3/4	2.10 x 0.55	Gray
LCDX4-14D-L	LCDX4-14D-L	4/#5,#4,#3	1/4	1	2.35 x 0.55	Gray
LCDX4-56D-L	LCDX4-56D-L	4/#5,#4,#3	5/16	1	2.47 x 0.55	Gray
LCDX4-38D-L	LCDX4-38D-L	4/#5,#4,#3	3/8	1	2.57 x 0.62	Gray
LCDX2-14A-E	LCDX2-14A-E	2	1/4	5/8	2.13 x 0.70	Brown
LCDX2-14B-E	LCDX2-14B-E	2	1/4	3/4	2.25 x 0.70	Brown
LCDX2-14D-E	LCDX2-14D-E	2	1/4	1	2.50 x 0.70	Brown
LCDX2-56D-E	LCDX2-56D-E	2	5/16	1	2.63 x 0.70	Brown
LCDX2-38D-E	LCDX2-38D-E	2	3/8	1	2.70 x 0.70	Brown
LCDX2-12-E	LCDX2-12-E	2	1/2	1 3/4	3.87 x 0.75	Brown
LCDX1-14A-X	LCDX1-14A-X	1	1/4	5/8	2.29 x 0.76	Green
LDCX1-14B-X	LDCX1-14B-X	1	1/4	3/4	2.42 x 0.76	Green

Compression Lugs - Copper

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Stud Hole Spacing (in.)	Lug Length x Tongue Width (in.)	Color Code
LCDX1-14D-X	LCDX1-14D-X	1	1/4	1	2.67 x 0.76	Green
LCDX1-56D-X	LCDX1-56D-X	1	5/16	1	2.72 x 0.76	Green
LCDX1-38D-X	LCDX1-38D-X	1	3/8	1	2.80 x 0.76	Green
LCDX1-12-X	LCDX1-12-X	1	1/2	1 3/4	3.97 x 0.80	Green
LCDX1/0-14A-X	LCDX1/0-14A-X	1/0	1/4	5/8	2.45 x 0.85	Pink
LCDX1/0-14B-X	LCDX1/0-14B-X	1/0	1/4	3/4	2.57 x 0.85	Pink
LCDX1/0-56B-X	LCDX1/0-56B-X	1/0	5/16	3/4	2.57 x 0.85	Pink
LCDX1/0-56D-X	LCDX1/0-56D-X	1/0	5/16	1	2.82 x 0.85	Pink
LCDX1/0-38D-X	LCDX1/0-38D-X	1/0	3/8	1	2.89 x 0.85	Pink
LCDX1/0-12D-X	LCDX1/0-12D-X	1/0	1/2	1	3.14 x 0.85	Pink
LCDX1/0-12-X	LCDX1/0-12-X	1/0	1/2	1 3/4	4.05 x 0.85	Pink
LCDX2/0-14A-X	LCDX2/0-14A-X	2/0	1/4	5/8	2.59 x 0.96	Black
LCDX2/0-14B-X	LCDX2/0-14B-X	2/0	1/4	3/4	2.72 x 0.96	Black
LCDX2/0-56D-X	LCDX2/0-56D-X	2/0	5/16	1	2.97 x 0.96	Black
LCDX2/0-38D-X	LCDX2/0-38D-X	2/0	3/8	1	3.03 x 0.96	Black
LCDX2/0-12D-X	LCDX2/0-12D-X	2/0	1/2	1	3.28 x 0.96	Black
LCDX2/0-12-X	LCDX2/0-12-X	2/0	1/2	1 3/4	4.19 x 0.96	Black
LCDX3/0-14A-X	LCDX3/0-14A-X	2/0	1/4	5/8	2.71 x 1.06	Orange
LCDX3/0-56D-X	LCDX3/0-56D-X	3/0	5/16	1	3.10 x 1.06	Orange
LCDX3/0-38D-X	LCDX3/0-38D-X	3/0	3/8	1	3.17 x 1.06	Orange
LCDX3/0-12-X	LCDX3/0-12-X	3/0	1/2	1 3/4	4.31 x 1.06	Orange
LCDX4/0-14A-X	LCDX4/0-14A-X	4/0	1/4	5/8	2.74 x 1.19	Purple
LCDX4/0-14B-X	LCDX4/0-14B-X	4/0	1/4	3/4	2.96 x 1.19	Purple
LCDX4/0-56D-X	LCDX4/0-56D-X	4/0	5/16	1	3.31 x 1.19	Purple
LCDX4/0-38D-X	LCDX4/0-38D-X	4/0	3/8	1	3.34 x 1.19	Purple
LCDX4/0-12D-X	LCDX4/0-12D-X	4/0	1/2	1	3.61 x 1.19	Purple
LCDX4/0-12E-X	LCDX4/0-12E-X	4/0	1/2	1 1/4	3.89 x 1.19	Purple
LCDX4/0-12-X	LCDX4/0-12-X	4/0	1/2	1 3/4	4.52 x 1.19	Purple
LCDX250-38D-X	LCDX250-38D-X	250	3/8	1	3.38 x 1.28	Yellow
LCDX250-38-X	LCDX250-38-X	250	3/8	1 3/4	4.13 x 1.28	Yellow
LCDX250-12E-X	LCDX250-12E-X	250	1/2	1 1/4	3.93 x 1.28	Yellow
LCDX250-12-X	LCDX250-12-X	250	1/2	1 3/4	4.56 x 1.28	Yellow
LCDX300-38D-6	LCDX300-38D-6	300	3/8	1	3.56 x 1.39	Red
LCDX300-12-6	LCDX300-12-6	300	1/2	1 3/4	4.74 x 1.39	Red
LCDX350-56D-6	LCDX350-56D-6	350	5/16	1	3.71 x 1.54	Blue
LCDX350-38D-6	LCDX350-38D-6	350	3/8	1	3.74 x 1.54	Blue
LCDX350-38-6	LCDX350-38-6	350	3/8	1 3/4	4.49 x 1.54	Blue
LCDX350-12E-6	LCDX350-12E-6	350	1/2	1 1/4	4.29 x 1.54	Blue
LCDX350-12-6	LCDX350-12-6	350	1/2	1 3/4	4.92 x 1.54	Blue
LCDX450-38D-6	LCDX450-38D-6	450	3/8	1	3.90 x 1.70	Brown
LCDX450-12-6	LCDX450-12-6	450	1/2	1 3/4	5.08 x 1.70	Brown
LCDX500-56D-6	LCDX500-56D-6	500	5/16	1	4.05 x 1.89	Pink
LCDX500-38D-6	LCDX500-38D-6	500	3/8	1	4.08 x 1.89	Pink
LCDX500-12E-6	LCDX500-12E-6	500	1/2	1 1/4	4.76 x 1.89	Pink
LCDX500-12-6	LCDX500-12-6	500	1/2	1 3/4	5.26 x 1.89	Pink
LCDX600-12-6	LCDX600-12-6	600	1/2	1 3/4	5.26 x 1.89	Pink
LCDX650-38D-6	LCDX650-38D-6	650	3/8	1	4.08 x 1.95	Black
LCDX650-12-6	LCDX650-12-6	650	1/2	1 3/4	5.26 x 1.95	Black
LCDX750-38D-3	LCDX750-38D-3	750	3/8	1	4.62 x 2.17	Yellow
LCDX750-12E-3	LCDX750-12E-3	750	1/2	1 1/4	5.06 x 2.17	Yellow
LCDX750-12G-3	LCDX750-12G-3	750	1/2	1 1/2	5.31 x 2.17	Yellow
LCDX750-12-3	LCDX750-12-3	750	1/2	1 3/4	5.56 x 2.17	Yellow
LCDX750-58G-3	LCDX750-58G-3	750	5/8	1 1/2	5.37 x 2.17	Yellow

Compression Lugs - Copper

PAN-LUG Copper Compression, FLEX Conductor, Two-hole Lugs

PANDUIT

FEATURES

- Can be used with CODE conductor and FLEX conductor class G, H, I, K, M and locomotive
- Color-coded barrels marked with PANDUIT and specified competitor die index numbers for proper crimp die selection
- UL Listed and CSA Certified to 35 kV and temperature rated to 90°C when crimped with PANDUIT and specified competitor crimping tools and dies

APPLICATIONS

For use with flexible, extra-flexible and CODE stranded copper conductors.

TWO-HOLE LONG BARREL WITH WINDOWS

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Stud Hole Spacing (in.)	Lug Length x Tongue Width (in.)	Color Code
LCCX8-10A-L	LCCX8-10A-L	8	#10	5/8	2.01 x 0.41	Red
LCCX8-10B-L	LCCX8-10B-L	8	#10	3/4	2.14 x 0.41	Red
LCCX8-10AB-L	LCCX8-10AB-L	8	#10	5/8 - 3/4	2.14 x 0.41	Red
LCCX8-14A-L	LCCX8-14A-L	8	1/4	5/8	2.10 x 0.48	Red
LCCX8-14B-L	LCCX8-14B-L	8	1/4	3/4	2.23 x 0.48	Red
LCCX8-14AB-L	LCCX8-14AB-L	8	1/4	5/8 - 3/4	2.23 x 0.48	Red
LCCX8-14D-L	LCCX8-14D-L	8	1/4	1	2.48 x 0.48	Red
LCCX8-38D-L	LCCX8-38D-L	8	3/8	1	2.70 x 0.60	Red
LCCX6-10B-L	LCCX6-10B-L	6	#10	3/4	2.52 x 0.46	Blue
LCCX6-14A-L	LCCX6-14A-L	6	1/4	5/8	2.49 x 0.48	Blue
LCCX6-14B-L	LCCX6-14B-L	6	1/4	3/4	2.61 x 0.48	Blue
LCCX6-14AB-L	LCCX6-14AB-L	6	1/4	5/8 - 3/4	2.61 x 0.48	Blue
LCCX6-14D-L	LCCX6-14D-L	6	1/4	1	2.86 x 0.48	Blue
LCCX6-38A-L	LCCX6-38A-L	6	3/8	5/8	2.71 x 0.62	Blue
LCCX6-38C-L	LCCX6-38C-L	6	3/8	7/8	2.96 x 0.62	Blue
LCCX6-38AC-L	LCCX6-38AC-L	6	3/8	5/8 - 7/8	2.96 x 0.62	Blue
309721	LCCX6-38D-L	6	3/8	1	3.08 x 0.62	Blue
LCCX4-14A-L	LCCX4-14A-L	4/#5,#4,#3	1/4	5/8	2.49 x 0.55	Gray
LCCX4-14B-L	LCCX4-14B-L	4/#5,#4,#3	1/4	3/4	2.63 x 0.55	Gray
LCCX4-14AB-L	LCCX4-14AB-L	4/#5,#4,#3	1/4	5/8 - 3/4	2.63 x 0.55	Gray
LCCX4-38B-L	LCCX4-38B-L	4/#5,#4,#3	3/8	3/4	2.84 x 0.62	Gray
LCCX4-38D-L	LCCX4-38D-L	4/#5,#4,#3	3/8	1	3.09 x 0.62	Gray
LCCX4-38BD-L	LCCX4-38BD-L	4/#5,#4,#3	3/8	3/4 - 1	3.09 x 0.62	Gray
LCCX2-14A-E	LCCX2-14A-E	2	1/4	5/8	2.89 x 0.70	Brown
LCCX2-14B-E	LCCX2-14B-E	2	1/4	3/4	3.01 x 0.70	Brown
326133	LCCX2-38D-E	2	3/8	1	3.46 x 0.70	Brown
LCCX2-12-E	LCCX2-12-E	2	1/2	1 3/4	4.63 x 0.75	Brown
LCCX1-14A-X	LCCX1-14A-X	1	1/4	5/8	3.07 x 0.76	Green
LCCX1-14B-X	LCCX1-14B-X	1	1/4	3/4	3.19 x 0.76	Green
LCCX1-14D-X	LCCX1-14D-X	1	1/4	1	3.44 x 0.76	Green
LCCX1-56C-X	LCCX1-56C-X	1	5/16	7/8	3.37 x 0.76	Green
LCCX1-56D-X	LCCX1-56D-X	1	5/16	1	3.50 x 0.76	Green
LCCX1-38D-X	LCCX1-38D-X	1	3/8	1	3.57 x 0.76	Green
LCCX1/0-14A-X	LCCX1/0-14A-X	1/0	1/4	5/8	3.23 x 0.85	Pink
LCCX1/0-14B-X	LCCX1/0-14B-X	1/0	1/4	3/4	3.36 x 0.85	Pink
LCCX1/0-38D-X	LCCX1/0-38D-X	1/0	3/8	1	3.67 x 0.85	Pink
LCCX1/0-12-X	LCCX1/0-12-X	1/0	1/2	1 3/4	4.83 x 0.85	Pink
LCCX2/0-14A-X	LCCX2/0-14A-X	2/0	1/4	5/8	3.27 x 0.96	Black
LCCX2/0-14B-X	LCCX2/0-14B-X	2/0	1/4	3/4	3.39 x 0.96	Black

Compression Lugs - Copper

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Stud Hole Spacing (in.)	Lug Length x Tongue Width (in.)	Color Code
LCCX2/0-38D-X	LCCX2/0-38D-X	2/0	3/8	1	3.70 x 0.96	Black
LCCX2/0-12-X	LCCX2/0-12-X	2/0	1/2	1 3/4	4.87 x 0.96	Black
LCCX3/0-14B-X	LCCX3/0-14B-X	3/0	1/4	3/4	3.48 x 1.06	Orange
LCCX3/0-38D-X	LCCX3/0-38D-X	3/0	3/8	1	3.81 x 1.06	Orange
LCCX4/0-14B-X	LCCX4/0-14B-X	4/0	1/4	3/4	4.07 x 1.19	Purple
LCCX4/0-38D-X	LCCX4/0-38D-X	4/0	3/8	1	4.55 x 1.19	Purple
LCCX4/0-12-X	LCCX4/0-12-X	4/0	1/2	1 3/4	5.73 x 1.19	Purple
LCCX250-14B-X	LCCX250-14B-X	250	1/4	3/4	4.11 x 1.28	Yellow
LCCX250-38D-X	LCCX250-38D-X	250	3/8	1	4.59 x 1.28	Yellow
LCCX300-38D-6	LCCX300-38D-6	300	3/8	1	4.67 x 1.39	Red
LCCX350-14B-6	LCCX350-14B-6	350	1/4	3/4	4.47 x 1.54	Blue
LCCX350-38D-6	LCCX350-38D-6	350	3/8	1	4.95 x 1.54	Blue
LCCX350-12-6	LCCX350-12-6	350	1/2	1 3/4	6.13 x 1.54	Blue
LCCX500-12-6	LCCX500-12-6	500	1/2	1 3/4	6.66 x 1.89	Pink

Compression Lugs - Aluminum

HYLUG, Uninsulated Aluminum Compression Lugs

BURNDY

UL Listed 90°C

600 V to 35 kV

CODE CONDUCTOR, ONE-HOLE LUG

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Lug Length x Tongue Width (in.)	Color Code
YA8CA1	YA8CA1	8	#10	1.50 x 0.53	Blue
YA8CA3	YA8CA3	8	1/4	1.65 x 0.53	Blue
YA6CA1	YA6CA1	6	1/4	1.84 x 0.47	Gray
YA6CA3	YA6CA3	6	3/8	2.28 x 0.65	Gray
YA4CA1	YA4CA1	4	1/4	2.13 x 0.47	Green
YA4CA6	YA4CA6	4	3/8	2.32 x 0.80	Green
YA2CA5	YA2CA5	2	1/4	2.25 x 0.50	Pink
YA2CA3	YA2CA3	2	3/8	2.56 x 0.88	Pink
YA1CA1	YA1CA1	1	3/8	2.59 x 0.76	Gold
YA25A3	YA25A3	1/0	3/8	2.67 x 0.82	Tan
YA25A9	YA25A9	1/0	1/2	2.67 x 1.03	Tan
YA26A6	YA26A6	2/0	3/8	2.79 x 0.67	Olive
YA26A1	YA26A1	2/0	1/2	3.03 x 1.03	Olive
YA27A1	YA27A1	3/0	3/8	2.88 x 0.73	Ruby
YA27A3	YA27A3	3/0	1/2	3.27 x 1.04	Ruby
YA28A1	YA28A1	4/0	3/8	3.26 x 1.17	White
YA28A3	YA28A3	4/0	1/2	3.44 x 1.17	White

CODE CONDUCTOR, TWO-HOLE LUG

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Stud Hole Spacing (in.)	Lug Length x Tongue Width (in.)	Color Code
YA25A5	YA25A5	1/0	3/8	1	3.73 x 0.82	Tan
YA25A7	YA25A7	1/0	1/2	1 3/4	4.59 x 1.03	Tan
YA26A3	YA26A3	2/0	1/2	1 3/4	4.78 x 1.03	Olive
YA26A5	YA26A5	2/0	3/8	1	3.56 x 0.92	Olive
YA27A5	YA27A5	3/0	1/2	1 3/4	5.02 x 1.04	Ruby
YA27A7	YA27A7	3/0	3/8	1	3.79 x 1.04	Ruby
YA28A5	YA28A5	4/0	1/2	1 3/4	5.19 x 1.17	White
YA28A7	YA28A7	4/0	3/8	1	3.97 x 1.17	White
YA29A3	YA29A3	250	1/2	1 3/4	5.28 x 1.26	Red
YA29A5	YA29A5	250	3/8	1	4.06 x 1.26	Red

Compression Lugs - Aluminum

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Stud Hole Spacing (in.)	Lug Length x Tongue Width (in.)	Color Code
YA31A3	YA31A3	350	1/2	1 3/4	6.07 x 1.52	Brown
YA31A5	YA31A5	350	3/8	1	4.85 x 1.52	Brown
YA34A3	YA34A3	500	1/2	1 3/4	6.80 x 1.62	Pink
YA34A5	YA34A5	500	3/8	1	5.54 x 1.80	Pink
YA36A3	YA36A3	600	1/2	1 3/4	7.09 x 1.62	Black
YA36A5	YA36A5	600	3/8	1	5.83 x 1.97	Black
YA39A5	YA39A5	750	1/2	1 3/4	7.07 x 1.62	Yellow

PAN-LUG Aluminum Compression Lugs

PANDUIT

APPLICATIONS

For use with stranded aluminum or copper CODE conductors.

CODE CONDUCTOR, ONE-HOLE ALUMINUM LUG

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Stud Hole Spacing (in.)	Lug Length x Tongue Width (in.)	Color Code
LAA6-14-X	LAA6-14-X	6	1/4	-----	2.20 x 0.55	Gray
246532	LAA4-14-X	4	1/4	-----	2.05 x 0.66	Green
LAA2-14-X	LAA2-14-X	2	1/4	-----	2.63 x 0.75	Pink
LAA250-12-5	LAA250-12-5	250	1/2	-----	3.63 x 1.24	Red

CODE CONDUCTOR, TWO-HOLE ALUMINUM LUG

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Stud Hole Spacing (in.)	Lug Length x Tongue Width (in.)	Color Code
LAB1/0-38-X	LAB1/0-38-X	1/0	3/8	1 3/4	5.33 x 0.88	Tan
PAN-LAB250-12-5	LAB250-12-5	250	1/2	1 3/4	6.05 x 1.25	Red
PAN-LAB500-12-2	LAB500-12-2	500	1/2	1 3/4	7.36 x 1.72	Pink

Terminals

Ring Terminal, Nylon and Vinyl Insulated

PANDUIT

SPECIFICATIONS

1. Maximum insulation temperature: 221°F (105°C)
2. Internal barrel serrations assure good contact and maximum tensile strength
3. Terminals with funnel entry provide faster insertion and lower installed cost
4. Color-coded insulation identifies wire range
5. Sleeved barrel assures crimp reliability
6. UL and CSA rated up to 600 V per UL 486
7. Flammability: Nylon: UL 94 V-2/HB, Vinyl: UL 94 V-0
8. Contact your local sales representative for expanded offering

APPLICATIONS

PANDUIT PAN-TERM loose piece terminal offering includes insulated and non-insulated rings, forks, disconnects, splices and ferrules. Made of electrolytic refined copper and tin-plated for an optimum combination of crimp-forming and high-conductivity properties to provide superior terminations. Available in sizes from #26 AWG to #2 AWG and stud diameters from #2 - 1/2 inch.

RING TERMINAL, NYLON INSULATED

Anixter No.	Vendor No.	Wire Range	Color	Stud Size	Length (in.)	Width (in.)	Std. Pkg. Qty.
PN18-4R-C	PN18-4R-C	22-18	Red	#4	0.80	0.25	100
252261	PN18-6R-C	22-18	Red	#6	0.80	0.25	100
252264	PN18-10R-C	22-18	Red	#10	0.88	0.31	100
252265	PN14-6R-C	16-14	Blue	#6	0.85	0.31	100
252267	PN14-8R-C	16-14	Blue	#8	0.85	0.31	100
200566	PN14-10R-C	16-14	Blue	#10	0.85	0.31	100
252270	PN10-8R-L	12-10	Yellow	#8	1.06	0.37	50
162766	PN10-10R-L	12-10	Yellow	#10	1.06	0.38	50
193501	PN10-14R-L	12-10	Yellow	1/4	1.21	0.52	50

RING TERMINAL, NYLON INSULATED - EXPANDED INSULATION

Anixter No.	Vendor No.	Wire Range	Color	Stud Size	Length (in.)	Width (in.)	Std. Pkg. Qty.
PN10-10RX-L	PN10-10RX-L	12-10	Yellow	#10	1.13	0.37	50
PN10-14RX-L	PN10-14RX-L	12-10	Yellow	1/4	1.27	0.52	50

RING TERMINAL, NYLON INSULATED - FUNNEL ENTRY

Anixter No.	Vendor No.	Wire Range	Color	Stud Size	Length (in.)	Width (in.)	Std. Pkg. Qty.
PNF18-4R-C	PNF18-4R-C	22-18	Red	#4	0.77	0.25	100
PNF18-8R-C	PNF18-8R-C	22-18	Red	#8	0.87	0.31	100
PNF18-10R-C	PNF18-10R-C	22-18	Red	#10	0.87	0.32	100
PNF14-6R-C	PNF14-6R-C	16-14	Blue	#6	0.87	0.31	100
PNF14-8R-C	PNF14-8R-C	16-14	Blue	#8	0.87	0.31	100
PNF14-10R-C	PNF14-10R-C	16-14	Blue	#10	0.85	0.31	100
PNF14-14R-C	PNF14-14R-C	16-14	Blue	1/4	1.06	0.46	100
PNF10-8R-L	PNF10-8R-L	12-10	Yellow	#8	1.06	0.37	50
PNF10-10R-L	PNF10-10R-L	12-10	Yellow	#10	1.06	0.37	50

RING TERMINAL, VINYL INSULATED - FUNNEL ENTRY

Anixter No.	Vendor No.	Wire Range	Color	Stud Size	Length (in.)	Width (in.)	Std. Pkg. Qty.
329496	PV18-6R-CY	22-18	Red	#6	0.86	0.25	100
J436	PV18-14R-CY	22-18	Red	1/4	1.11	0.46	100
252283	PV14-6R-C	16-14	Blue	#6	0.92	0.31	100
252286	PV14-8R-C	16-14	Blue	#8	0.92	0.31	100
252289	PV14-10R-C	16-14	Blue	#10	0.92	0.31	100
252293	PV10-8R-L	12-10	Yellow	#8	1.05	0.31	50
209762	PV10-10R-L	12-10	Yellow	#10	1.05	0.31	50
210719	PV10-14R-L	12-10	Yellow	1/4	1.23	0.52	50

Fork Terminal, Nylon Insulated

PANDUIT

SPECIFICATIONS

1. Maximum insulation temperature: 221°F (105°C)
2. Internal barrel serrations assure good contact and maximum tensile strength
3. Terminals with funnel entry provide faster insertion and lower installed cost
4. Color-coded insulation identifies wire range
5. Sleeved barrel assures crimp reliability
6. UL and CSA rated up to 600 V per UL 486
7. Flammability: Nylon: UL 94 V-2/HB
8. Contact your local sales representative for expanded offering

APPLICATIONS

PANDUIT PAN-TERM loose-piece terminal offering includes insulated and noninsulated rings, forks, disconnects, splices and ferrules. Made of electrolytic refined copper and tin-plated for an optimum combination of crimp-forming and high-conductivity properties to provide superior terminations. Available in sizes from #26 AWG to #2 AWG and stud diameters from #2 - 1/2 inch.

FORK TERMINAL, NYLON INSULATED

Anixter No.	Vendor No.	Wire Range	Color	Stud Size	Length (in.)	Width (in.)	Std. Pkg. Qty.
PN22-6F-C	PN22-6F-C	26-22	Yellow	#6	0.77	0.25	100
PN18-6FN-C	PN18-6FN-C	22-18	Red	#6	0.78	0.24	100
252260	PN18-6F-C	22-18	Red	#6	0.78	0.30	100
252262	PN18-8F-C	22-18	Red	#8	0.85	0.32	100
252266	PN14-8F-C	16-14	Blue	#8	0.85	0.31	100
211261	PN14-10F-C	16-14	Blue	#10	0.87	0.34	100
PN14-14F-C	PN14-14F-C	16-14	Blue	1/4	1.02	0.44	100
252269	PN10-8F-L	12-10	Yellow	#8	1.03	0.37	50
PN10-14F-L	PN10-14F-L	12-10	Yellow	1/4	1.14	0.49	50

FORK TERMINAL, NYLON INSULATED - FUNNEL ENTRY

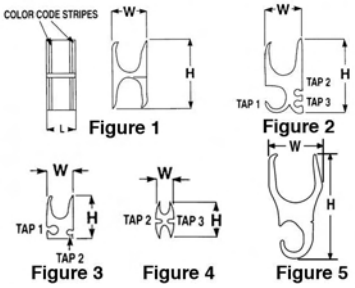
Anixter No.	Vendor No.	Wire Range	Color	Stud Size	Length (in.)	Width (in.)	Std. Pkg. Qty.
PNF18-6F-C	PNF18-6F-C	22-18	Red	#6	0.80	0.30	100
PNF14-6F-C	PNF14-6F-C	16-14	Blue	#6	0.80	0.28	100
PNF14-8F-C	PNF14-8F-C	16-14	Blue	#8	0.85	0.31	100
PNF14-10F-C	PNF14-10F-C	16-14	Blue	#10	0.87	0.34	100
PNF10-8F-L	PNF10-8F-L	12-10	Yellow	#8	1.02	0.37	50
PNF10-10F-L	PNF10-10F-L	12-10	Yellow	#10	1.04	0.37	50

Compression Splices and Taps - Copper

H-TAP Copper CRIMPIT

BURNDY

Kit part numbers include cover. Either clear or black.



Anixter No.	Vendor No.	Burndy Clear Kits	Anixter Clear Kits	Burndy Black Kits	Anixter Black Kits	Figure Number	Main Conductor Size CODE/(FLEX)	Tap 1 Conductor Size CODE/(FLEX)	Tap 2 Conductor Size CODE/(FLEX)	Tap 3 Conductor Size CODE/(FLEX)
YH4444	YH4444	YH4444WCC	YH4444WCC	YH4444WC	YH4444WC	1	1000-750/ (750-500)/(750)	1000-750/ (750-500)/(350)	-----	-----
YH4434	YH4434	YH4434WCC	YH4434WCC	YH4434WC	YH4434WC	1	1000-750/ (750-500)/(750)	1000-750/ (750-500)/(350)	-----	-----
YH4429	YH4429	YH4429WCC	YH4429WCC	YH4429WC	YH4429WC	5	1000-750/ (777-500)	250-2/(4/0-2)	-----	-----
YH3939	YH3939	YH3939WCC	YH3939WCC	YH3939WC	YH3939WC	1	750-500/(550-500)	750-350/ (550-350)	-----	-----
YH3931	YH3931	YH3931WCC	YH3931WCC	YH3931WC	YH3931WC	2	750-350/(550-500)	4/0-1/0/(250-1/0)	1-6 Str/Sol/(1-8)	2-14/(2-14)
YH3434	YH3434	YH3434WCC	YH3434WCC	YH3434WC	YH3434WC	1	500-250/(350-4/0)	500-4/0/(350-4/0)	-----	-----
YH3429	YH3429	YH3429WCC	YH3429WCC	YH3429WC	YH3429WC	2	500-4/0/(350-4/0)	250/1/0/(4/0-1/0)	1-6 Str/Sol/(1-8)	8-14/(8)
YH2929	YH2929	YH2929WCC	YH2929WCC	YH2929WC	YH2929WC	1	250-2/(4/0-2)	250-2/(4/0-2)	-----	-----
YH292C	YH292C	YH292CWCC	YH292CWCC	YH292CWC	YH292CWC	3	250-2/(4/0-2)	2-6 Str/Sol/(2-8)	8-14/(8-14)	-----
YH298C	YH298C	YH298CWCC	YH298CWCC	YH298CWC	YH298CWC	3	250-2/(4/0-2)	8-14/(8-14)	8-14/(8-14)	-----
YH2C2C	YH2C2C	YH2C2CWCC	YH2C2CWCC	YH2C2CWC	YH2C2CWC	4	2-6 Str/Sol/(2-8)	2-6 Str/Sol/(2-8)	8-14/(8-14)	8-14/(8-14)
YH6C6C	YH6C6C	YH6C6CWCC	YH6C6CWCC	YH6C6CWC	YH6C6CWC	1	6-10/(6-10)	6-14/(6-14)	-----	-----
YH8C8C	YH8C8C	YH8C8CWCC	YH8C8CWCC	YH8C8CWC	YH8C8CWC	1	8-14/(8-14)	8-14/(8-14)	-----	-----

750 FLEX, main, is the only wire that may be used with a 350 FLEX TAP in the YH4444 connector.

PAN-LUG Copper Compression, CODE/FLEX Conductor H-TAP

PANDUIT

FEATURES

- Each H-TAP terminates a wide range of conductor sizes and combinations of CODE and FLEX conductors Class G, H, I and locomotive to suit a variety of applications
- UL Listed and CSA Certified for applications up to 600 V when crimped with PANDUIT and specified competitor crimping tools and PANDUIT crimping dies

APPLICATIONS

For making parallel and multiple tap connections on CODE and FLEX conductors.

Anixter No.	Vendor No.	Main Conductor Size CODE/ (FLEX)	Tap 1 Conductor Size CODE/(FLEX)	Tap 2 Conductor Size CODE/(FLEX)	Tap 3 Conductor Size CODE/(FLEX)
HTCT8-8-1	HTCT8-8-1	8-14/(8-14)	8-14/(8-14)	-----	-----
348315	HTCT6-6-1	6-10/(6-10)	6-14/(6-14)	-----	-----
329743	HTCT2-2-1	2-6 Str/Sol/(2-8)	2-6 Str/Sol/(2-8)	8-14/(8-14)	8-14/(8-14)
306869	HTCT250-2-1	250-2/(4/0-2)	250-2/(4/0-2)	8-14/(8-14)	-----
337200	HTCT250-250-1	250-2/(4/0-2)	250/1/0/(4/0-1/0)	-----	-----
HTCT500-250-1	HTCT500-250-1	500-4/0(373 kcmil - 4/0)	250/1/0/(4/0-1/0)	1-6 Str/Sol/(1-8)	8-14/(8-14)
HTCT750-4/0-1	HTCT750-4/0-1	750-350/(550-500)	4/0-1/0/(250-1/0)	1-6 Str/Sol/(1-8)	8-14/(8-14)
HTCT1000-250-1	HTCT1000-250-1	1000-750/(777-500)	250/1/0/(4/0-1/0)	1 - 2/(1 - 2)	-----

Compression Splices and Taps - Copper

H-TAP - Flame-retardant Cover

BURNDY

UL Listed to 600 V

600 V, 90°C

FEATURES

- One-piece design
- Slips over connector and latches securely shut
- Protects against electrical flashover
- UL 94 V-0 rated

TYPE CF-FR H-TAP - FLAME-RETARDANT COVER

Anixter No.	Vendor No.	Max. Conductor Size AWG/kcmil	Matched H Copper CRIMPIT
CFBGFR	CFBGFR	#8 AWG or #6 AWG	YH8C8C or YH6C6C
CFOFR	CFOFR	#2 AWG	YH2C2C
CFDFR	CFDFR	250 kcmil	YH292C, YH298C, YH2929
CFNFR	CFNFR	500 kcmil	YH3434, YH3429*
CFRFR	CFRFR	750 kcmil or 1000 kcmil	YH3939, YH3931, YH4429 or YH4434, YH4444

* Use CFN-FR for single-tap installations; use CFR-FR when two or more tap conductors are installed.

TYPE CCF-FR CLEAR H-TAP - FLAME-RETARDANT COVER

Anixter No.	Vendor No.	Max. Conductor Size AWG/kcmil	Matched H Copper CRIMPIT
CCFBGFR	CCFBGFR	#8 AWG or #6 AWG	YH8C8C or YH6C6C
CCFOFR	CCFOFR	#2 AWG	YH8C8C or YH6C6C
CCFDFR	CCFDFR	250 kcmil	YH2C2C
CCFNFR	CCFNFR	500 kcmil	YH3434, YH3429*
CCFRFR	CCFRFR	750 kcmil or 1000 kcmil	YH3939, YH3931, YH4429 or YH4434, YH4444

* Use CCFNFR for single-tap installations; use CCFR-FR when two or more tap conductors are installed.

Compression Splices and Taps - Copper

C-Tap Copper CRIMPIT

BURNDY

C-TAP COPPER CRIMPIT

Anixter No.	Vendor No.	Flame Retardant Clear Cover - Burndy No.	Flame Retardant Clear Cover - Anixter No.	Flame Retardant Black Cover - Burndy No.	Flame Retardant Black Cover - Anixter No.	Main Conductor Size CODE/(FLEX)	Tap 1 Conductor Size CODE/(FLEX)	Tap 2 Conductor Size CODE/(FLEX)	Tap 3 Conductor Size CODE/(FLEX)	Color Code
YCHC44TC44	YCHC44TC44	CCFR-FR	CCFR-FR	CFR-FR	CFR-FR	1000-750/ (750-500)	1000-750/ (750-500)	-----	-----	White
YCHC39TC39	YCHC39TC39	CCFR-FR	CCFR-FR	CFR-FR	CFR-FR	750-500/ (550-500)	750-350/ (550-350)	-----	-----	Blue
YCHC39TC31	YCHC39TC31	CCFR-FR	CCFR-FR	CFR-FR	CFR-FR	750-500/ (550-500)	350-2/(250-2)	2-6 Str/Sol/ (2-8)	8-14/(8-14)	Blue
YCHC39TC2	YCHC39TC2	CCFR-FR	CCFR-FR	CFR-FR	CFR-FR	750-500/ (550-500)	2-6 Str/Sol/ (2-8)	8-14/(8-14)	-----	Blue
YCHC34TC34	YCHC34TC34	CCFN-FR	CCFN-FR	CFN-FR	CFN-FR	500-4/0/ (350-4/0)	500-4/0/ (350-4/0)	-----	-----	Brown
YCHC34TC29	YCHC34TC29	CCFN-FR	CCFN-FR	CFN-FR	CFN-FR	500-4/0/ (350-4/0)	250-2/(4/0-2)	2-6 Str/Sol/ (2-8)		Brown
YCHC34TC2	YCHC34TC2	CCFN-FR	CCFN-FR	CFN-FR	CFN-FR	500-4/0/ (350-4/0)	2-6 Str/Sol/ (2-8)	8-14/(8-14)		Brown
YCHC29TC29	YCHC29TC29	CCFD-FR	CCFD-FR	CFD-FR	CFD-FR	250-2/(4/0-2)	250-2/(4/0-2)			Orange
YCHC29TC2	YCHC29TC2	CCFD-FR	CCFD-FR	CFD-FR	CFD-FR	250-2/(4/0-2)	2-6 Str/Sol/ (2-8)	8-14/(8-14)		Red
YCHC2TC2	YCHC2TC2	CCFO-FR	CCFO-FR	CFO-FR	CFO-FR	2-6 Str/Sol/ (2-8)	2-6 Str/Sol/ (2-8)	8-14/(8-14)		Brown
YCHC8TC8	YCHC8TC8	-----	-----	-----	-----	8-12/(8-12)	8-12/(8-12)	-----	-----	Red

Conductor size 8 AWG/kcmil to 2 AWG/kcmil. For applications requiring flame-retardant cover, use either a CCFB-FR (Clear) or CFB-FR (Black) cover and YH2C2C connector by ordering YH8C8CWCC (Clear) or YH8C8CWC (Black).

Compression Splices and Taps - Copper

Thin-wall Copper C-Tap

BURNDY
UL Listed to 600 V

FEATURES

- Manufactured from high-conductivity wrought copper
- Provides low resistance and excellent electrical conductivity
- Range-taking connector
- Lowers inventory requirements
- Reinforced ribs
- Provides maximum pull-out values
- Compact size
- Easy to tape and insulate connection
- Economical
- Provides low installed cost

APPLICATIONS

Type YC-L is a thin-wall high conductivity copper connector for making copper tap and parallel connections from #14 to 3/0 AWG.

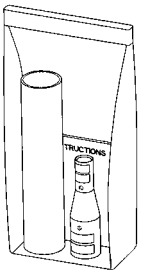
Anixter No.	Vendor No.	Copper Conductor Size Main Size AWG/kcmil	Copper Conductor Size Tap Size AWG/kcmil	Length (in.)	Color Code
YC10L12	YC10L12	14, 12, 10	16-14, 6-14, 14	0.40	Red
YC1L12	YC1L12	3, 2, 1	4-3, 5-4, 12-5	1.75	Black
YC25L12	YC25L12	2 Str/Sol, 1 Str/Sol, 1/0 Str/Sol	2 Str/Sol-3 Str/Sol, 4 Str/Sol-3 Str/Sol, 12 Str/Sol-4 Str/Sol	1.75	Orange
YC26L12	YC26L12	1, 1/0, 2/0	2-1, 3-2, 12-3	1.75	Purple
YC27L12	YC27L12	1/0, 2/0, 4/0	1-1/0, 2-1, 12-2	1.75	Yellow
YC2L12	YC2L12	4, 3, 2	4, 5, 12-6	1.18	Pink
YC3L12	YC3L12	5, 4, 3	6-5, 12-6	1.18	Green
YC4L12	YC4L12	6, 5, 4	8-6, 12-8	1.18	Brown
YC6L12	YC6L12	8, 6	10-8, 12-10	0.60	Gray
YC8L12	YC8L12	10, 8	10, 12	0.60	Blue

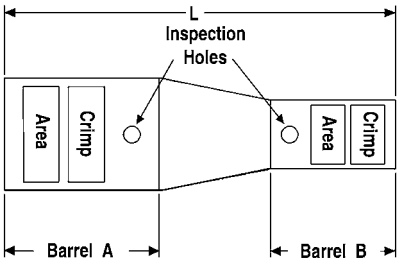
Compression Splices and Taps - Copper

HYREDUCER

BURNDY

YSR-TC reducing splice kits provide for splicing two different cable sizes with inspection holes. The larger conductor is inserted first and butts against the center of the connector where the smaller barrel begins. Constructed from seamless, high-conductivity eletrolytic copper tubing for maximum conductivity, and tin-plated to resist corrosion. The YSR-TC family also features the Burndy color-code system.





APPLICATIONS

In-line reducer splice kits for telecommunications applications.

Anixter No.	Vendor No.	Barrel A Conductor Size AWG/kcmil	Barrel B Conductor Size AWG/kcmil	Barrel Type	Length (in.)
YSR44FX39LTCKITC	YSR44FX39LTCKIT	750 kcmil FLEX	750 kcmil CODE	Standard	4.38
YSR44FX34LTCKITC	YSR44FX34LTCKIT	750 kcmil FLEX	500 kcmil CODE	Standard	4.91
YSR44FX31LTCKITC	YSR44FX31LTCKIT	750 kcmil FLEX	350 kcmil CODE	Standard	5.18
YSR44FX29FXLKITC	YSR44FX29FXLKIT	750 kcmil FLEX	4/0 AWG FLEX	Standard	5.33
YSR3928LTCKITC	YSR3928LTCKITC	750 kcmil CODE	4/0 AWG CODE	Standard	4.65
YSR3929FXLKITC	YSR3929FXLKITC	750 kcmil CODE	4/0 AWG FLEX	Standard	4.51
YSR34FX26FXLTCKITC	YSR34FX26FXLTCK	350 kcmil FLEX	2/0 AWG FLEX	Standard	3.94
YSR312CFXLTCKITC	YSR312CFXLTCKIT	350 kcmil CODE	#2 AWG FLEX or CODE	Standard	3.37
YSR282CFXLTCKITC	YSR282CFXLTCKIT	4/0 AWG CODE	#2 AWG FLEX or CODE	Standard	2.70
YSR286CFXLTCKITC	YSR286CFXLTCKIT	4/0 AWG CODE	#6 AWG FLEX or CODE	Standard	2.99
YSR26FX6CFXLTCKITC	YSR26FX6CFXLTCK	2/0 AWG FLEX or CODE	#6 AWG FLEX or CODE	Standard	2.71
YSR26FX2CFXLTCKITC	YSR26FX2CFXLTCK	2/0 AWG FLEX or CODE	#2 AWG FLEX or CODE	Standard	2.41
YSR25FX6CFXLTCKITC	YSR25FX6CFXLTCK	1/0 AWG FLEX or CODE	#6 AWG FLEX or CODE	Standard	2.42
YSR25FX2CFXLTCKITC	YSR25FX2CFXLTCK	1/0 AWG FLEX or CODE	#2 AWG FLEX or CODE	Standard	2.12
YSR2CFX6CFXLTCKITC	YSR2CFX6CFXLTCK	#2 AWG FLEX or CODE	#6 AWG FLEX or CODE	Standard	1.93
YSR4CFX6CFXLTCKITC	YSR4CFX6CFXLTCK	#4 AWG FLEX or CODE	#6 AWG FLEX or CODE	Standard	1.67

Compression Splices and Taps - Copper

PAN-LUG Code Conductor Butt Splices

PANDUIT

PANDUIT CODE CONDUCTOR, STANDARD BARREL, BUTT SPLICES

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Barrel O.D. (in.)	Length (in.)	Color Code
SCS8-L	SCS8-L	8	0.27	1.50	Red
SCS6-L	SCS6-L	6	0.31	1.75	Blue
SCS4-L	SCS4-L	4 - 3 AWG Str., 2 AWG Sol.	0.38	1.75	Gray
PAN-SCS2	SCS2-Q	2	0.42	1.87	Brown
SCS1-E	SCS1-E	1	0.47	1.87	Green
252554	SCS1/0-X	1/0	0.52	1.87	Pink
SCS2/0-X	SCS2/0-X	2/0	0.58	2.00	Black
SCS3/0-X	SCS3/0-X	3/0	0.64	2.12	Orange
PAN-SCS4/0	SCS4/0-X	4/0	0.71	2.12	Purple

For use with stranded copper CODE conductors.

PANDUIT CODE CONDUCTOR, LONG BARREL, BUTT SPLICES

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Barrel O.D. (in.)	Length (in.)	Color Code
PAN-SCL250	SCL250-X	250	0.77	3.38	Yellow
SCL350-X	SCL350-X	350	0.88	4.12	Red
SCL500-6	SCL500-6	500	1.06	4.52	Brown
SCL600-6	SCL600-6	600	1.19	5.50	Green
SCL750-6	SCL750-6	750	1.30	5.87	Black
SCL1000-3	SCL1000-3	1000	1.50	6.12	White

For use with stranded copper CODE conductors.

PAN-LUG Copper Compression, CODE Conductor, Thin Wall, C-Tap

PANDUIT

FEATURES

- For copper-to-copper tapping, splicing or pigtailing
- UL Listed and CSA Certified when crimped with PANDUIT and specified competitor crimping tools and dies

APPLICATIONS

For copper CODE stranded connections.

CODE CONDUCTOR, THIN WALL, C-TAP

Anixter No.	Vendor No.	Copper Conductor Size Main Size AWG/kcmil	Copper Conductor Size Tap Size AWG/kcmil	Length (in.)	Color Code
CTAPF10-16-C	CTAPF10-16-C	14, 12, 10	16-14, 6-14, 14	0.41	Red
CTAPF8-12-C	CTAPF8-12-C	10, 8	10, 1	0.67	Blue
CTAPF6-12-C	CTAPF6-12-C	8, 6	10-8, 12-10	0.67	Gray
CTAPF4-12-C	CTAPF4-12-C	6, 5, 4	8-6, 12-8	1.25	Brown
CTAPF3-12-C	CTAPF3-12-C	5, 4, 3	6-5, 12-6	1.25	Green

Compression Tools

750 Revolver HYPRESS

BURNDY

Hydraulic hand-operated tool - 12-ton crimp force

Conductor range: #12 to 750 kcmil CU/AL and #4 to 556.5 kcmil ACSR

FEATURES

- Accepts all BURNDY "U" dies for use on conductor ranges of #12-750 kcmil AL/CU and #4.

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Description
Y750HS	Y750HS	8 AWG - 750 kcmil CU/AL	750 revolver HYPRESS hydraulic hand operated tool - 12-ton crimp force

Type Y1MRTC HYTOOL

BURNDY

Crimps 8 AWG - 1 AWG copper HYDENT terminals, splices and 6 AWG - 6 AWG thin-wall C-Taps.

Type Y1MRTC mechanical full cycle ratchet HYTOOL will accommodate copper compression HYDENT connectors for #8 through #1 CODE conductor and #8 through #2 Class I flexible strand copper conductor. The color-coded die wheel rotates to provide a proper match of the die and color-coded connector.

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Description
Y1MRTC	Y1MRTC	8-1 AWG Class B, 8-2 AWG Class I FLEX, 2 AWG solid and 3 AWG stranded	Type Y1MRTC mechanical full-cycle ratchet HYTOOL

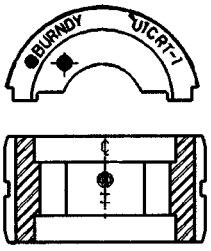
U Dies

BURNDY

12-TON U DIES - FOR USE WITH Y750HS TOOL

Anixter No.	Vendor No.	Conductor Size AWG/kcmil
U8CRT	U8CRT	8 AWG
U5CRT	U5CRT	6 AWG
U4CRT	U4CRT	4 AWG
U3CRT	U3CRT	3 AWG
U2CRT	U2CRT	2 AWG
U1CRT1	U1CRT1	1 AWG
U25RT	U25RT	1/0
U26RT	U26RT	2/0
U27RT	U27RT	3/0
U28RT	U28RT	4/0
U29RT	U29RT	250 kcmil
U30RT	U30RT	300 kcmil
U31RT	U31RT	350 kcmil
U32RT	U32RT	400 kcmil
U34RT	U34RT	500 kcmil
U38XRT	U38XRT	535 kcmil FLEX
U36RT	U36RT	600 kcmil
U39RT	U39RT	750 kcmil
U44XRT	U44XRT	777 kcmil FLEX

Nontension U-type 12-ton dies for YA, YS, YA-A, YS-A style connectors.



Compression Tools

PATRIOT Battery-powered Hydraulic Crimping Tool

BURNDY

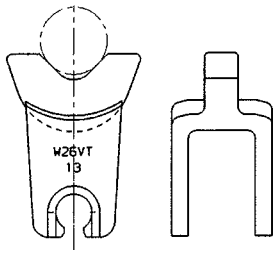
The BURNDY PAT600C-18V battery-powered crimping tool provides six tons of crimping force and completes a crimp in approximately three seconds. The PAT600C-18V is compact, easy to use and incorporates the latest in battery tool technology.

Anixter No.	Vendor No.	Description
PAT600C18V	PAT600C-18V	Battery-powered crimping tool, 6-ton crimp force

W-Dies

BURNDY

For use with PAT600C crimp tool and with lugs and splices.



Anixter No.	Vendor No.	Conductor Size AWG/kcmil
W8CVT	W8CVT	8 AWG
W5CVT	W5CVT	6 AWG
W4CVT	W4CVT	4 AWG
W3CVT	W3CVT	3 AWG
W2CVT	W2CVT	2 AWG
W1CVT	W1CVT	1 AWG
W25CVT	W25CVT	1/0
W26CVT	W26CVT	2/0
W27CVT	W27CVT	3/0
W28CVT	W28CVT	4/0
W29CVT	W29CVT	250 kcmil
W30CVT	W30CVT	300 kcmil
W31CVT	W31CVT	350 kcmil
W32CVT	W32CVT	400 kcmil
W34CVT	W34CVT	500 kcmil
W36RT	W36RT	600 kcmil

Suitable for use on YA, YS, YA-A, YS-A type nontension connectors.

Compression Tools

CONTOUR CRIMP Controlled Cycle Tool

PANDUIT

Crimps PANDUIT #8 AWG to #2 AWG noninsulated tubular terminals (S series), #8 AWG to #1 AWG copper lugs and splices, #6 AWG to #4 AWG aluminum lugs and splices and CTAPF copper taps for #14 AWG to #3 AWG. Includes 5-position, color-coded rotating die.

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Description
208989	CT-1700	8-1 AWG	CONTOUR CRIMP controlled cycle hand tool

Die-type, Battery-powered Hydraulic, 12-ton Crimping Tool

PANDUIT

APPLICATIONS

Die type, battery-powered hydraulic, 12-ton crimping tool; includes two 12 V DC, rechargeable NiMH batteries, one battery charger, shoulder strap, tool case; installs #8 AWG - 750 kcmil PAN-LUG compression CODE connectors and #8 - 600 kcmil PAN-LUG compression FLEX connectors. Uses PANDUIT CD-920/930 dies.

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Description
CT-2931	CT-2931	8 AWG - 750 kcmil	Die-type, battery-powered hydraulic, 12-ton crimping tool

UNI-DIE Dieless, Battery-powered Hydraulic, 6.2-ton Crimping Tool, 12 V DC

PANDUIT

Terminates PANDUIT PAN-LUG copper compression lugs and splices for #4 AWG - 750 kcmil copper CODE conductor. Terminates PAN-LUG aluminum compression lugs and splices for #6 AWG - 500 kcmil copper and aluminum CODE conductor.

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Description
CT-2981	CT-2981	4 - 750 Copper / 6 - 500 Aluminum	UNI-DIE dieless, battery-powered hydraulic, 6.2-ton crimping tool with tool case and accessories

Mechanical Lugs - Copper

SCRULUG

BURNDY

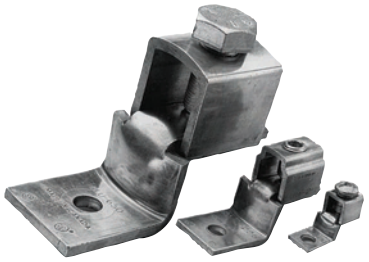
For copper cable

Offset tongue

Nonplated

APPLICATIONS

High-copper alloy terminal with offset tongue for joining a wide range of cable to equipment pads or bar. Easy to install with screwdriver or wrench. Connector is reusable. Plain copper finish.



Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Hardware	Stud Hole Size (in.)
KLU25	KLU25	14 Sol. - 10 Sol.	No. 8 - 32 slotted round machine screw	#6
KLU25TP	KLU25TP	14 Sol. - 10 Sol.	No. 8 - 32 slotted round machine screw	#6
KLU225TP	KLU225TP	2 Str. - 4/0 Str.	7/16 UNF socket set screw	5/16
KLU35	KLU35	14 Sol. - 6 Str.	1/4 UNF slotted set screw	#10
KLU35TP	KLU35TP	14 Sol. - 6 Str.	1/4 UNF slotted set screw	#10
KLU70	KLU70	8 Sol. - 2 Str.	5/16 UNF slotted set screw	1/4
KLU70TP	KLU70TP	8 Sol. - 2 Str.	5/16 UNF slotted set screw	1/4
KLU125	KLU125	2 Str. - 1/0 Str.	3/8 UNF slotted set screw	1/4
KLU125TP	KLU125TP	2 Str. - 1/0 Str.	3/8 UNF slotted set screw	1/4
KLU175	KLU175	4 Str. - 3/0 Str.	3/8 UNF slotted set screw	3/8
KLU175TP	KLU175TP	4 Str. - 3/0 Str.	3/8 UNF slotted set screw	3/8
KLU225	KLU225	2 Str. - 4/0 Str.	7/16 UNF socket set screw	5/16
KLU300	KLU300	1/0 Str. - 300 kcmil	5/8 UNF slotted set screw	3/8
KLU300TP	KLU300TP	1/0 Str. - 300 kcmil	5/8 UNF slotted set screw	3/8
KLU400	KLU400	1/0 Str. - 500 kcmil	5/8 UNF slotted set screw	3/8
KLU400TP	KLU400TP	1/0 Str. - 500 kcmil	5/8 UNF slotted set screw	3/8

* Suffix - "TP" on catalog number denotes tin plate (example: KLU400TP)

KA-LUG for Copper Cable

BURNDY

Compact, economical, high-copper alloy terminal for joining a wide range of cable to equipment pad or terminal blocks.

APPLICATIONS

For use with copper cable.

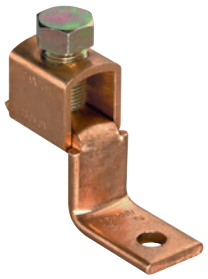
Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)
KA8C	KA8C	14 Sol. - 8 Str.	#10
KA4C	KA4C	14 Sol. - 8 Str.	1/4
KA25	KA25	4 Str. - 1/0 Str.	3/8
KA28	KA28	1 Str. - 4/0 Str.	3/8
KA252TC38	KA252TC38	4 Str. - 1/0 Str.	3/8
KA34	KA34	4/0 Str. - 500	1/2

Mechanical Lugs - Copper

One-hole, Offset Floating Tongue Lug

PANDUIT

Made from high-strength electrolytic copper to provide premium electrical and mechanical performance.



FOR USE WITH STRANDED COPPER CODE CONDUCTORS

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Hex Size (in.)
329488	CB35-36-CY	14 AWG - 6 AWG	3/16	Slot
CB175-38-QY	CB175-38-QY	4 AWG - 3/0 AWG	3/8	5/16

TWO-HOLE, OFFSET FLOATING TONGUE LUG
FOR USE WITH STRANDED COPPER CODE CONDUCTORS

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Stud Hole Spacing (in.)	Hex Size (in.)
252576	CO70-14-QY	12 AWG - 1 AWG	1/4	1	Slot
252575	CO35-36-QY	14 AWG - 6 AWG	3/16	1	Slot

Mechanical Lugs - Aluminum

LAY-IN QIKLUG

BURNDY
UL Listed 90°C, 600 V

APPLICATIONS

The LAY-IN QIKLUG, Type BGBL is manufactured from high-strength 6061-T6 aluminum, and is ideally suited for grounding and bonding applications accommodating both copper and aluminum conductor sizes #14 AWG to 250 kcmil.

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Hex Size (in.)
BGBL4	BGBL4	4 - 14 AWG	1/4	Slot
BGBL1/0	BGB1/0	1/0 - 14 AWG	3/8	Slot
BGBL250	BGBL250	250 kcmil - 6 AWG	7/16	7/32

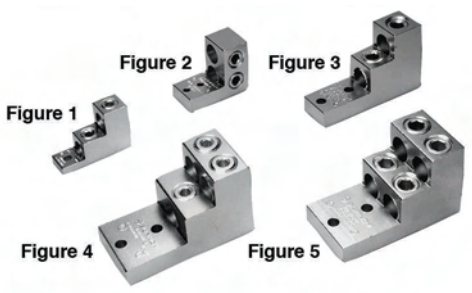
PEN-A-PENETROX™ inhibitor is recommended for all aluminum terminations.

Universal Terminals

BURNDY
These dual-rated two-conductor lugs are constructed from high-strength aluminum alloy and electro tin-plated to provide low contact resistance.

APPLICATIONS

For aluminum and copper conductors.



Anixter No.	Vendor No.	Figure Number	Conductor Size AWG/kcmil	Stud Hole Size (in.)
K11A30U	K11A30U	1	Two: 6 Str. - 300	5/16
K11A34U-2	K11A34U-2	2	Two: 4/0 Str. - 500	1/4
K11A36U-2	K11A36U-2	3	Two: 2 Str. - 600	3/8
K11A39U-2	K11A39U-2	3	Two: 1/0 Str. - 750	3/8
K21A36U-2	K21A36U-2	4	Three: 2 Str. - 600	3/8
K22A36U-2	K22A36U-2	5	Four: 2 Str. - 600	3/8
K22A39U-2	K22A39U-2	5	Four: 1/0 Str. - 750	3/8

Mechanical Lugs - Aluminum

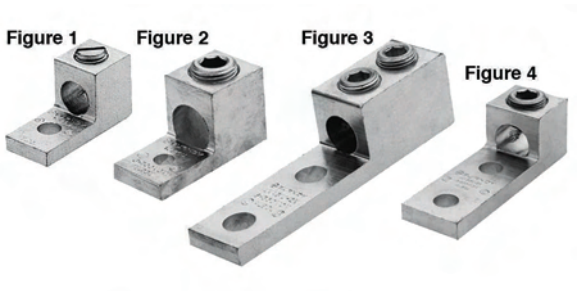
Universal Terminals - One Conductor

BURNDY

These dual-rated one-conductor lugs are constructed from high-strength aluminum alloy and electro tin-plated to provide low contact resistance.

APPLICATIONS

One conductor for aluminum and copper conductors.



Anixter No.	Vendor No.	Figure Number	Conductor Size AWG/kcmil	Stud Hole Size (in.)
KA6U	KA6U	1	14 Str. - 6 Str.	1/4
KA2U	KA2U	1	14 Str. - 2 Str.	1/4
KA25U	KA25U	1	14 Str. - 1/0 Str.	1/4
KA26U	KA26U	2	6 Str. - 2/0 Str.	1/4
KA29U	KA29U	2	6 Str. - 250	5/16
KA30U	KA30U	2	6 Str. - 300	5/16
KA31U	KA31U	2	6 Str. - 350	3/8
KA34U	KA34U	2	4 Str. - 500	3/8
KA36U	KA36U	2	2 Str. - 600	3/8
KA40U	KA40U	2	300 - 800	1/2
KA44U	KA44U	2	500 - 1000	1/2
KA36U-2N	KA36U-2N	4	2 Str. - 600	1/2
KA40U-2N	KA40U-2N	4	300 - 800	1/2
KKA31U-2N	KKA31U-2N	3	6 Str. - 350	1/2

"N" indicates NEMA standard stud holes.

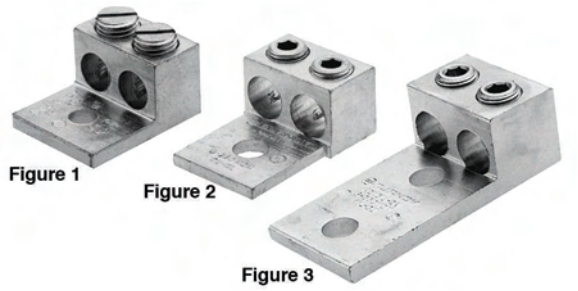
Universal Terminals - Two Conductor

BURNDY

These dual-rated two-conductor lugs are constructed from high-strength aluminum alloy and electro tin-plated to provide low contact resistance.

APPLICATIONS

Two conductor for aluminum and copper conductors.



Anixter No.	Vendor No.	Figure Number	Conductor Size AWG/kcmil	Stud Hole Size (in.)
K2A25U	K2A25U	1	Two: 14 Str. - 1/0 Str.	1/4
K2A26U	K2A26U	2	Two: 14 Str. - 2/0 Str.	1/4
K2A29U	K2A29U	2	Two: 6 Str. - 250	3/8
K2A31U	K2A31U	2	Two: 4 Str. - 350	1/2
K2A36U	K2A36U	2	Two: 2 Str. - 600	1/2
K2A40U	K2A40U	2	Two: 300 - 800	5/8
K2A44U	K2A44U	2	Two: 500 - 1000	5/8
K2A31U-2N	K2A31U-2N	3	Two: 6 Str. - 350	1/2
K2A36U-2N	K2A36U-2N	3	Two: 2 Str. - 600	1/2
K2A40U-2N	K2A40U-2N	3	Two: 300 - 800	1/2
K2A44U-2N	K2A44U-2N	3	Two: 500 - 1000	1/2

"N" indicates NEMA standard stud holes.

Mechanical Lugs - Aluminum

PANDUIT One-hole, Two-barrel Lugs

PANDUIT

APPLICATIONS

For use with stranded aluminum or copper CODE conductors.

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Hex Size (in.)
330294	LAM2A2/0-14-6Y	14 AWG - 2/0 AWG	1/4	Slot
LAM2A600-12-6	LAM2A600-12-6Y	4 AWG - 600 kcmil	1/2	1/2

ONE-HOLE, SINGLE-BARREL LUGS

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size (in.)	Hex Size (in.)
252585	LAMA6-14-QY	14 AWG - 6 AWG	1/4	Slot
252582	LAMA2-14-QY	14 AWG - 2 AWG	1/4	Slot
252583	LAMA2/0-14-QY	14 AWG - 2/0 AWG	1/4	Slot

Mechanical Splices - Copper

Dual-rated Splicer/Reducer

BURNDY

All splicer/reducers are dual-rated for use with aluminum and copper conductors and are constructed from high-strength, tin-plated aluminum. PENETROX™ oxide inhibiting joint compounds are recommended for all aluminum applications.

APPLICATIONS

For copper and aluminum cable.

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Length (in.)	Width (in.)	H Max.	No. of Screws	Screw Diameter (in.)	Hex Size (in.)
AMS-2	AMS-2	14 AWG - 2 AWG	1.59	0.56	0.79	2	3/8	Slot
AMS-0	AMS-0	8 AWG - 1/0 AWG	1.91	0.75	0.86	2	7/16	Slot
AMS-4/0	AMS-4/0	6 AWG - 4/0 AWG	2.31	1.00	1.28	2	9/16	5/16
AMS-250	AMS-250	6 AWG - 250	4.09	1.00	1.29	4	5/8	5/16
AMS-350	AMS-350	6 AWG - 350	4.34	1.00	1.30	4	11/16	5/16
AMS-500	AMS-500	3/0 AWG - 500	4.78	1.25	1.48	4	13/16	3/8
AMS-750	AMS-750	250 - 750	6.06	1.44	1.98	4	15/16	1/2
AMS-1000	AMS-1000	500 - 1000	8.69	1.66	2.34	6	1-1/8	9/16

UNITap™ - The MOLE™

BURNDY

For direct burial

600 V, 90°C

APPLICATIONS

Designed specifically for direct-burial applications, the MOLE™ inline splice/reducer is made with a specialized plastisol material that forms a rugged weathertight connection.

Anixter No.	Vendor No.	No. of Ports	Conductor Size AWG/kcmil	Length (in.)	Height (in.)	Width (in.)	Hex Key (Torque) (in./lb.)	Wire Strip Length (in.)
BISR4-DB	BISR4-DB	2	#6 - 4 AWG	4.30	1.28	0.80	1/8 (50)	0.875
BISR1-DB	BISR1-DB	2	#2 - 1 AWG	6.30	1.59	0.93	5/32 (130)	1.094
BISR3/0-DB	BISR3/0-DB	2	1/0 - 3/0 AWG	6.25	1.84	0.99	3/16 (220)	1.094
BISR250-DB	BISR250-DB	2	4/0 - 250 kcmil	6.70	2.03	1.18	5/16 (360)	1.313

BISR-DB = BURNDY Inline Splice/Reducer Direct Burial

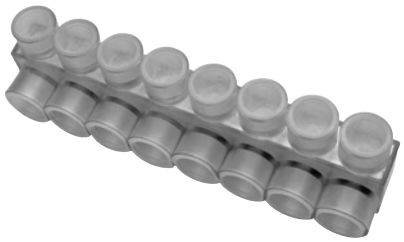
Mechanical Splices - Copper

Burndy UNITap™

BURNDY

APPLICATIONS

Tap connections and in-line splice/reductions are made quickly and easily with the UNITap™ line connectors. UL 486B Listed. Dual-rated for any stranded copper or stranded aluminum applications. 600 volts. 90°C.



MULTI-PORT SINGLE-SIDED ENTRY

Anixter No.	Vendor No.	No. of Ports	Conductor Size AWG/kcmil	Length (in.)	Height (in.)	Width (in.)	Hex Size (in.)
BIBS4-3	BIBS4-3	3	14 - 4	1.59	1.25	1.25	1/8
BIBS4-4	BIBS4-4	4	14 - 4	2.03	1.25	1.25	1/8
BIBS4-5	BIBS4-5	5	14 - 4	2.47	1.25	1.25	1/8
BIBS4-6	BIBS4-6	6	14 - 4	2.91	1.25	1.25	1/8
BIBS4-8	BIBS4-8	8	14 - 4	3.78	1.25	1.25	1/8
BIBS2/0-3	BIBS2/0-3	3	14 - 2/0	2.19	1.38	1.31	3/16
BIBS2/0-4	BIBS2/0-4	4	14 - 2/0	2.86	1.38	1.31	3/16
BIBS2/0-5	BIBS2/0-5	5	14 - 2/0	3.53	1.38	1.31	3/16
BIBS2/0-6	BIBS2/0-6	6	14 - 2/0	4.20	1.38	1.31	3/16
BIBS2/0-8	BIBS2/0-8	8	14 - 2/0	5.55	1.38	1.31	3/16
BIBS2/0-10	BIBS2/0-10	10	14 - 2/0	6.89	1.38	1.31	3/16
BIBS2/0-12	BIBS2/0-12	12	14 - 2/0	8.24	1.38	1.31	3/16
BIBS2/0-14	BIBS2/0-14	14	14 - 2/0	9.58	1.38	1.31	3/16
BIBS250-3	BIBS250-3	3	10 - 250	2.97	2.13	2.07	5/16
BIBS250-4	BIBS250-4	4	10 - 250	3.91	2.13	2.07	5/16
BIBS250-5	BIBS250-5	5	10 - 250	4.84	2.13	2.07	5/16
BIBS250-6	BIBS250-6	6	10 - 250	5.78	2.13	2.07	5/16
BIBS250-8	BIBS250-8	8	10 - 250	7.66	2.13	2.07	5/16
BIBS250-10	BIBS250-10	10	10 - 250	9.53	2.13	2.07	5/16
BIBS250-12	BIBS250-12	12	10 - 250	11.41	2.13	2.07	5/16
BIBS250-14	BIBS250-14	14	10 - 250	13.29	2.13	2.07	5/16
BIBS350-3	BIBS350-3	3	10 - 350	3.13	2.50	2.32	5/16
BIBS350-4	BIBS350-4	4	10 - 350	4.04	2.50	2.32	5/16
BIBS350-5	BIBS350-5	5	10 - 350	4.95	2.50	2.32	5/16
BIBS350-6	BIBS350-6	6	10 - 350	5.86	2.50	2.32	5/16
BIBS350-8	BIBS350-8	8	10 - 350	7.68	2.50	2.32	5/16
BIBS350-10	BIBS350-10	10	10 - 350	9.50	2.50	2.32	5/16
BIBS350-12	BIBS350-12	12	10 - 350	11.32	2.50	2.32	5/16
BIBS350-14	BIBS350-14	14	10 - 350	13.14	2.50	2.32	5/16
BIBS600-3	BIBS600-3	3	4 - 600	4.00	2.75	2.38	3/8
BIBS600-4	BIBS600-4	4	4 - 600	5.28	2.75	2.38	3/8
BIBS600-5	BIBS600-5	5	4 - 600	6.56	2.75	2.38	3/8
BIBS600-6	BIBS600-6	6	4 - 600	7.84	2.75	2.38	3/8
BIBS600-8	BIBS600-8	8	4 - 600	10.41	2.75	2.38	3/8
BIBS600-10	BIBS600-10	10	4 - 600	12.97	2.75	2.38	3/8
BIBS600-12	BIBS600-12	12	4 - 600	15.53	2.75	2.38	3/8
BIBS600-14	BIBS600-14	14	4 - 600	18.09	2.75	2.38	3/8
BIBS750-3	BIBS750-3	3	2 - 750	4.25	3.00	2.70	3/8
BIBS750-4	BIBS750-4	4	2 - 750	5.63	3.00	2.70	3/8
BIBS750-6	BIBS750-6	6	2 - 750	8.37	3.00	2.70	3/8

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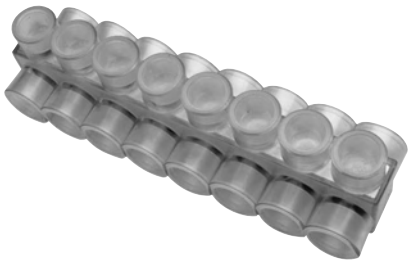
Mechanical Splices - Copper

(continued) Burndy UNITap™

MULTI-PORT SINGLE-SIDED ENTRY

Anixter No.	Vendor No.	No. of Ports	Conductor Size AWG/kcmil	Length (in.)	Height (in.)	Width (in.)	Hex Size (in.)
BIBS750-8	BIBS750-8	8	2 - 750	11.13	3.00	2.70	3/8
BIBS750-10	BIBS750-10	10	2 - 750	13.87	3.00	2.70	3/8
BIBS750-12	BIBS750-12	12	2 - 750	16.63	3.00	2.70	3/8
BIBS750-14	BIBS750-14	14	2 - 750	19.37	3.00	2.70	3/8



MULTI-PORT DOUBLE-SIDED ENTRY

Anixter No.	Vendor No.	No. of Ports	Conductor Size AWG/kcmil	Length (in.)	Height (in.)	Width (in.)	Hex Size (in.)
BIBD4-2	BIBD4-2	2	14 - 4	1.16	1.25	1.50	1/8
BIBD4-3	BIBD4-3	3	14 - 4	1.59	1.25	1.50	1/8
BIBD4-4	BIBD4-4	4	14 - 4	2.03	1.25	1.50	1/8
BIBD4-5	BIBD4-5	5	14 - 4	2.47	1.25	1.50	1/8
BIBD4-6	BIBD4-6	6	14 - 4	2.91	1.25	1.50	1/8
BIBD4-8	BIBD4-8	8	14 - 4	3.78	1.25	1.50	1/8
BIBD2/0-2	BIBD2/0-2	2	14 - 2/0	1.52	1.25	1.56	3/16
BIBD2/0-3	BIBD2/0-3	3	14 - 2/0	2.19	1.25	1.56	3/16
BIBD2/0-4	BIBD2/0-4	4	14 - 2/0	2.86	1.25	1.56	3/16
BIBD2/0-5	BIBD2/0-5	5	14 - 2/0	3.53	1.25	1.56	3/16
BIBD2/0-6	BIBD2/0-6	6	14 - 2/0	4.20	1.25	1.56	3/16
BIBD2/0-8	BIBD2/0-8	8	14 - 2/0	5.55	1.25	1.56	3/16
BIBD2/0-10	BIBD2/0-10	10	14 - 2/0	6.89	1.25	1.56	3/16
BIBD2/0-12	BIBD2/0-12	12	14 - 2/0	8.24	1.25	1.56	3/16
BIBD2/0-14	BIBD2/0-14	14	14 - 2/0	9.58	1.25	1.56	3/16
BIBD250-2	BIBD250-2	2	10 - 250	2.03	2.13	2.64	5/16
BIBD250-3	BIBD250-3	3	10 - 250	2.97	2.13	2.64	5/16
BIBD250-4	BIBD250-4	4	10 - 250	3.91	2.13	2.64	5/16
BIBD250-5	BIBD250-5	5	10 - 250	4.84	2.13	2.64	5/16
BIBD250-6	BIBD250-6	6	10 - 250	5.78	2.13	2.64	5/16
BIBD250-8	BIBD250-8	8	10 - 250	7.66	2.13	2.64	5/16
BIBD250-10	BIBD250-10	10	10 - 250	9.53	2.13	2.64	5/16
BIBD250-12	BIBD250-12	12	10 - 250	11.41	2.13	2.64	5/16
BIBD250-14	BIBD250-14	14	10 - 250	13.29	2.13	2.64	5/16
BIBD350-2	BIBD350-2	2	10 - 350	2.22	2.50	3.00	5/16
BIBD350-3	BIBD350-3	3	10 - 350	3.13	2.50	3.00	5/16
BIBD350-4	BIBD350-4	4	10 - 350	4.04	2.50	3.00	5/16
BIBD350-5	BIBD350-5	5	10 - 350	4.95	2.50	3.00	5/16
BIBD350-6	BIBD350-6	6	10 - 350	5.86	2.50	3.00	5/16
BIBD350-8	BIBD350-8	8	10 - 350	7.68	2.50	3.00	5/16
BIBD350-10	BIBD350-10	10	10 - 350	9.50	2.50	3.00	5/16
BIBD350-12	BIBD350-12	12	10 - 350	11.32	2.50	3.00	5/16
BIBD350-14	BIBD350-14	14	10 - 350	13.14	2.50	3.00	5/16

Mechanical Splices - Copper

Anixter No.	Vendor No.	No. of Ports	Conductor Size AWG/kcmil	Length (in.)	Height (in.)	Width (in.)	Hex Size (in.)
BIBD600-2	BIBD600-2	2	4 - 600	2.56	2.75	3.00	3/8
BIBD600-3	BIBD600-3	3	4 - 600	3.77	2.75	3.00	3/8
BIBD600-4	BIBD600-4	4	4 - 600	4.97	2.75	3.00	3/8
BIBD600-5	BIBD600-5	5	4 - 600	6.17	2.75	3.00	3/8
BIBD600-6	BIBD600-6	6	4 - 600	7.37	2.75	3.00	3/8
BIBD600-8	BIBD600-8	8	4 - 600	9.78	2.75	3.00	3/8
BIBD600-10	BIBD600-10	10	4 - 600	12.97	2.75	3.00	3/8
BIBD600-12	BIBD600-12	12	4 - 600	15.53	2.75	3.00	3/8
BIBD600-14	BIBD600-14	14	4 - 600	18.09	2.75	3.00	3/8
BIBD750-2	BIBD750-2	2	2 - 750	2.87	3.00	3.38	3/8
BIBD750-3	BIBD750-3	3	2 - 750	4.25	3.00	3.38	3/8
BIBD750-4	BIBD750-4	4	2 - 750	5.63	3.00	3.38	3/8
BIBD750-6	BIBD750-6	6	2 - 750	8.37	3.00	3.38	3/8
BIBD750-8	BIBD750-8	8	2 - 750	11.13	3.00	3.38	3/8
BIBD750-10	BIBD750-10	10	2 - 750	13.87	3.00	3.38	3/8
BIBD750-12	BIBD750-12	12	2 - 750	16.63	3.00	3.38	3/8
BIBD750-14	BIBD750-14	14	2 - 750	19.37	3.00	3.38	3/8

Mechanical Split Bolts - Copper

Type KS SERVIT - Split Bolts for Copper, Copperweld

BURNDY

For copper, copperweld, compact, high-strength, high-copper alloy. SERVIT split-bolt has free-running threads and easy-to-grip wrench flats. Highly resistant to seasonal cracking and corrosion, the SERVIT provides maximum pressure and assures a secure connection on all combinations of run-and-tap conductors. Type KS-3 accommodates three maximum-size conductors.

Anixter No.	Vendor No.	Cross Flat (in.)	Length (in.)	Width (in.)	Conductor Size AWG/KCMIL Range for Equal Run & Tap	Min. Tap with Max. Run
KS90	KS90	0.50	0.85	0.38	12 Str. - 10 Str.	16 Str.
KS15	KS15	0.50	0.85	0.38	10 Str. - 8 Str.	14 Str.
KS17	KS17	0.63	1.14	0.45	8 Str. - 6 Sol.	14 Str.
KS17-3	KS17-3	0.63	1.14	0.45	8 Str. - 6 Sol.	16 Str.
KS20	KS20	0.69	1.20	0.51	8 Str. - 4 Sol.	14 Str.
KS20-3	KS20-3	0.69	1.20	0.51	8 Str. - 4 Sol.	14 Str.
KS22	KS22	0.75	1.50	0.60	6 Str. - 2 Sol.	14 Str.
KS22-3	KS22-3	0.75	1.50	0.60	6 Str. - 2 Sol.	14 Str.
KS23	KS23	0.82	1.54	0.62	6 Str. - 2 Str.	14 Str.
KS25	KS25	0.94	1.77	0.73	4 Str. - 1/0 Str.	14 Str.
KS26	KS26	1.05	1.94	0.82	2 Str. - 2/0 Str.	14 Str.
KS27	KS27	1.36	1.86	1.17	1 Str. - 3/0 Str.	8 Sol.
KS29	KS29	1.36	2.07	1.17	1 Str. - 250	8 Str.
KS31	KS31	1.70	2.51	1.41	1/0 Str. - 350	1/0 Str.
KS34	KS34	1.82	2.79	1.48	2/0 Str. - 500	2/0 Str.
KS39	KS39	2.31	3.29	1.94	4/0 Str. - 750	4/0 Str.
KS44	KS44	2.56	3.73	2.19	300 - 1000	4/0 Str.

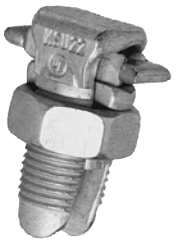
Mechanical Split Bolts - Copper

Type KSU Universal SERVIT for All Combinations of Copper, Aluminum

BURNDY

Tin-plated, high-strength copper alloy SERVIT with spacer. Spacer separates dissimilar conductors and provides long contact length that prevents high pressure point contacts between run-and-tap conductors.

Use of PENETROX joint compound recommended with aluminum and ACSR.



Anixter No.	Vendor No.	Cross Flat (in.)	Length (in.)	Width (in.)	Conductor Size Range Run AWG/kcmil	Conductor Size Range Tap AWG/kcmil
KSU17	KSU17	0.62	0.92	0.42	12 Sol. - 6 Sol.	12 Sol. - 6 Sol.
KSU20	KSU20	0.69	1.05	0.48	10 Sol. - 4 Sol.	10 Sol. - 4 Sol.
KSU22	KSU22	0.74	1.25	0.57	10 Sol. - 2 Sol.	10 Sol. - 2 Sol.
KSU23	KSU23	0.81	1.48	0.59	8 Str. - 2 Str.	8 Sol. - 2 Str.
KSU25	KSU25	0.93	1.77	0.70	2 Str. - 1/0 Str.	10 Str. - 1/0 Str.
KSU26	KSU26	1.04	1.93	0.79	1/0 Str. - 2/0 Str.	8 Str. - 2/0 Str.
KSU27	KSU27	1.38	2.34	1.12	1 Str. - 3/0 Str.	8 Sol. - 3/0 Str.
KSU29	KSU29	1.38	2.50	1.14	1 Str. - 250	8 Str. - 250
KSU31	KSU31	1.69	2.88	1.36	4/0 Str. - 350	4 Str. - 350
KSU34	KSU34	2.00	3.12	1.47	400 - 500	2 Str. - 500

Copper Split Bolts

PANDUIT

Made from high-strength copper alloy to resist corrosion and provide premium electrical and mechanical performance.

APPLICATIONS

For use with copper CODE conductors.

Anixter No.	Vendor No.	Conductor Size AWG/KCMIL Range for Equal Run & Tap	Min. Tap with Max. Run	Cross Flat (in.)	Length (in.)	Width (in.)
SBC8-C	SBC8-C	12 Sol. - 8 Str.	16 Str.	0.39	0.86	0.55
SBC6S-C	SBC6S-C	10 Sol. - 6 Sol.	16 Sol.	0.41	0.95	0.62
SBC4S-C	SBC4S-C	8 Sol. - 4 Sol.	16 Sol.	0.45	0.98	0.69
SBC2-C	SBC2-C	6 Sol. - 2 Str.	14 Str.	0.59	1.23	0.86
SBC1/0-L	SBC1/0-L	4 Sol. - 1/0 Str.	14 Sol.	0.75	1.55	0.93
SBC2/0-Q	SBC2/0-Q	2 Sol. - 2/0 Str.	14 Str.	0.79	1.72	1.05
SBC3/0-Q	SBC3/0-Q	2 Sol. - 3/0 Str.	12 Sol.	0.95	2.07	1.24
244345	SBC250-Q	1/0 Sol. - 250 kcmil	10 Sol.	1.03	2.09	1.36
252552	SBC350-1	4/0 Str. - 350 kcmil	8 Sol.	1.16	1.48	2.42
252553	SBC500-1	250 kcmil - 500 kcmil	8 Sol.	1.33	2.83	1.74

The conductor sizes shown are for equal run-and-tap combinations for both solid and stranded unless otherwise listed.

Termination Lubricants

Oxide-inhibiting Compounds

BURNDY

PENETROX oxide-inhibiting compounds produce low initial contact resistance , seal out air and moisture, prevent oxidation or corrosion, exhibit superior weathering characteristics, are usable over wide temperature ranges, and provide a high-conductivity "gas-tight" joint.

Anixter No.	Vendor No.	Description
PENEQT	PENEQT	1 quart plastic tube - recommended for copper to copper applications, grounding and for use on copper conduit threads
PENE8	PEN E-8	8 oz squeeze bottle - recommended for copper to copper applications, grounding and for use on copper conduit threads
PEN-A13-4	PENA134	4 oz squeeze bottle - recommended for aluminum to aluminum, aluminum to copper applications and aluminum conduit threads
PENA1/2	PENA1/2	1/2 oz tube - recommended for aluminum to aluminum, aluminum to copper applications and aluminum conduit threads
PENA4	PENA4	4 oz squeeze bottle - recommended for aluminum to aluminum, aluminum to copper applications and aluminum conduit threads

Ground Connectors Types GAR-BU and GAR3902 Series

BURNDY

APPLICATIONS

Type GAR-BU is a high-conductivity copper ground connector for connecting small- to medium-range copper structural and reinforcing rod shapes. Universal acceptance of several sizes of cylindrical shapes makes this maintenance work as well as cathodic protection. Cable clamp swivels to permit parallel grounding of one pipe or several pipes. Single-wrench installation. UL 467 Listed and CSA certified.

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Iron Pipe Size (in.)	O.D. Range (in.)
GAR3902BU	GAR3902-BU	#4 - 4/0 AWG	0.50 - 1.00	0.840 - 1.32
GAR3903BU	GAR3903-BU	#4 - 4/0 AWG	1.25 - 2.00	1.66 - 2.38
GAR3904BU	GAR3904-BU	#4 - 4/0 AWG	2.50 - 3.50	2.88 - 4.00
GAR3905BU	GAR3905-BU	#4 - 4/0 AWG	4.00 - 5.00	4.50 - 5.56
GAR3906BU	GAR3906-BU	#4 - 4/0 AWG	6.00	6.62
GAR3907BU	GAR3907-BU	#4 - 4/0 AWG	8.00	8.62
GAR3908BU	GAR3908-BU	#4 - 4/0 AWG	10.00	10.75
GAR3909BU	GAR3909-BU	#4 - 4/0 AWG	12.00	12.75
GAR3902	GAR3902	#4 - 4/0 AWG	0.50 - 1.00	0.840 - 1.32
GAR3903	GAR3903	#4 - 4/0 AWG	1.25 - 2.00	1.66 - 2.38
GAR3904	GAR3904	#4 - 4/0 AWG	2.50 - 3.50	2.88 - 4.00
GAR3905	GAR3905	#4 - 4/0 AWG	4.00 - 5.00	4.50 - 5.56
GAR3906	GAR3906	#4 - 4/0 AWG	6.00	6.62
GAR3907	GAR3907	#4 - 4/0 AWG	8.00	8.62
GAR3908	GAR3908	#4 - 4/0 AWG	10.00	10.75
GAR3909	GAR3909	#4 - 4/0 AWG	12.00	12.75

Type GAR-BU is supplied with DURIUM silicon bronze hardware and is listed for direct burial.

Grounding

Cast Bronze Ground Clamps

BURNDY

FOR CONNECTING GROUNDING CONDUCTOR TO WATER PIPE OR COPPER TUBE

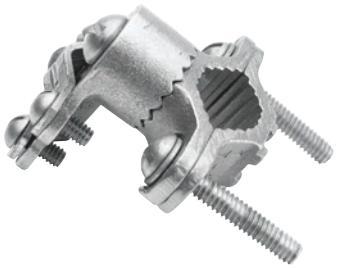
Anixter No.	Vendor No.	Water Pipe Size (in.)	Conductor Size AWG/kcmil (Rebar)	Conductor Size AWG/kcmil (Ground)
C-11N	C-11N	0.50 - 1.00	-----	10 - 2 Str.
C-11D	C-11D	0.50 - 1.00	#4 - #6	10 - 2 Str.
C-11B	C-11B	0.50 - 1.00	-----	10 - 2 Str.
C-22	C-22	1.25 - 2.00	-----	10 - 2 Str.
C-22D	C-22D	1.25 - 2.00	-----	10 - 2 Str.
C-4	C-4	2.50 - 4.00	-----	10 - 2 Str.
C-8	C-8	4.50 - 6.00	-----	10 - 2 Str.

"D" indicates UL 467 Listed for direct burial in earth and concrete and are supplied with silicon bronze hardware. "B" indicates brass hardware.

FOR CONNECTING CONDUCTOR, EMT OR RIGID CONDUIT TO WATER PIPE, COPPER TUBE, GROUND ROD OR REBAR

Anixter No.	Vendor No.	Water Pipe Size (in.)	Ground Rod Size (in.)	Conductor Size AWG/kcmil (Rebar)	Conductor Size AWG/kcmil (Ground)
C11HD4/0DB	C11HD4/0DB	0.50 - 1.00	0.375 - 1.00	#4 - #6	8 - 4/0 AWG
C22HD4/0DB	C22HD4/0DB	1.25 - 2.00	-----	-----	8 - 4/0 AWG

Hub swings 360° for easy alignment. Simply reverse bottom clamp for smaller-size rebar or rod. Connectors are provided with silicon bronze hardware.



DUAL-RATED GROUND CLAMP - FOR COPPER AND ALUMINUM CABLE

Anixter No.	Vendor No.	Conduit, Pipe or Water Tube Size (in.)	Wire Range
GC15A	GC15A	1/2, 3/4, 1	1/0 - 14 AWG
GC18A	GC18A	1-/14, 1-1/2, 2	250 MCM - 6 AWG
GC22A	GC22A	2-1/2, 3, 3-1/2, 4	250 MCM - 6 AWG

GC-A ground clamps are UL Listed for use with either copper or aluminum conductors to copper water pipe, galvanized pipe or steel conduit. All clamps are constructed from tin-plated, high-strength extruded aluminum alloy. PENETROX oxide-inhibiting joint compounds are recommended for all aluminum applications.

HIGH-STRENGTH GROUND CLAMP - FOR COPPER CABLE TO ROD

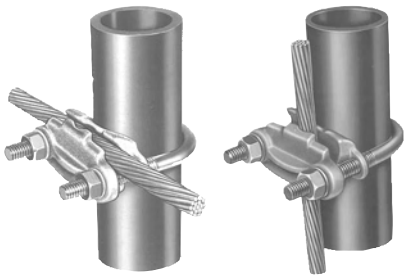
Anixter No.	Vendor No.	Drive Rod (in.)	Conductor Range Min.	Conductor Range Max.
GRC12	GRC12	1/2	10 AWG solid	2 AWG stranded
GRC34	GRC34	3/4	8 AWG solid	1/0 AWG stranded
GRC58	GRC58	5/8	10 AWG solid	1 AWG stranded

High copper alloy ground connector for joining a range of cable to copper clad, galvanized steel and stainless steel ground rods. Slips over end of rod, one-wrench installation. UL 467 Listed for direct burial in earth and concrete.

Fence Post Grounding Connector - Type GAR

BURNDY

High copper alloy ground connector for joining a range of cable, parallel or at right angles to rod or tube. Especially good for fence posts. High copper alloy cast body with DURIUM U-bolts, nuts and lockwashers permits entire connection to be buried in ground or concrete without danger of corrosion.



Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Iron Pipe Size (in.)	O.D. Range (in.)
GAR114C	GAR114C	8 Sol. - 4 Str.	0.25	0.50
GAR1126	GAR1126	4 Sol. - 2/0 Str.	0.25	0.50
GAR1129	GAR1129	2/0 Sol. - 250	0.25	0.50
GAR644C	GAR644C	8 Sol. - 4 Str.	0.375	0.625 - 0.75
GAR6426	GAR6426	4 Sol. - 2/0 Str.	0.375	0.625 - 0.75
GAR6429	GAR6429	2/0 Sol. - 250	0.375	0.625 - 0.75
GAR6434	GAR6434	300 - 500	0.375	0.625 - 0.75
GAR144C	GAR144C	8 Sol. - 4 Str.	0.50 - 0.75	0.875 - 1.00
GAR1426	GAR1426	4 Sol. - 2/0 Str.	0.50 - 0.75	0.875 - 1.00
GAR1429	GAR1429	2/0 Sol. - 250	0.50 - 0.75	0.875 - 1.00
GAR1434	GAR1434	300 - 500	0.50 - 0.75	0.875 - 1.00
GAR154C	GAR154C	8 Sol. - 4 Str.	1.00	1.125 - 1.25
GAR1526	GAR1526	4 Sol. - 2/0 Str.	1.00	1.125 - 1.25
GAR1529	GAR1529	2/0 Sol. - 250	1.00	1.125 - 1.25
GAR1534	GAR1534	300 - 500	1.00	1.125 - 1.25
GAR164C	GAR164C	8 Sol. - 4 Str.	1.25	1.375 - 1.50
GAR1626	GAR1626	4 Sol. - 2/0 Str.	1.25	1.375 - 1.50
GAR1629	GAR1629	2/0 Sol. - 250	1.25	1.375 - 1.50
GAR1634	GAR1634	300 - 500	1.25	1.375 - 1.50
GAR174C	GAR174C	8 Sol. - 4 Str.	1.50	1.625 - 1.875
GAR1726	GAR1726	4 Sol. - 2/0 Str.	1.50	1.625 - 1.875
GAR1729	GAR1729	2/0 Sol. - 250	1.50	1.625 - 1.875
GAR1734	GAR1734	300 - 500	1.50	1.625 - 1.875
GAR184C	GAR184C	8 Sol. - 4 Str.	2.00	2.00 - 2.375
GAR1826	GAR1826	4 Sol. - 2/0 Str.	2.00	2.00 - 2.375
GAR1829	GAR1829	2/0 Sol. - 250	2.00	2.00 - 2.375
GAR1834	GAR1834	300 - 500	2.00	2.00 - 2.375
GAR194C	GAR194C	8 Sol. - 4 Str.	2.50	2.50 - 2.875
GAR1926	GAR1926	4 Sol. - 2/0 Str.	2.50	2.50 - 2.875
GAR1929	GAR1929	2/0 Sol. - 250	2.50	2.50 - 2.875
GAR1934	GAR1934	300 - 500	2.50	2.50 - 2.875
GAR204C	GAR204C	8 Sol. - 4 Str.	3.00	3.00 - 3.50
GAR2026	GAR2026	4 Sol. - 2/0 Str.	3.00	3.00 - 3.50
GAR2029	GAR2029	2/0 Sol. - 250	3.00	3.00 - 3.50
GAR2034	GAR2034	300 - 500	3.00	3.00 - 3.50
GAR214C	GAR214C	8 Sol. - 4 Str.	3.50	3.50 - 4.00
GAR2126	GAR2126	4 Sol. - 2/0 Str.	3.50	3.50 - 4.00
GAR2129	GAR2129	2/0 Sol. - 250	3.50	3.50 - 4.00
GAR2134	GAR2134	300 - 500	3.50	3.50 - 4.00
GAR224C	GAR224C	8 Sol. - 4 Str.	4.00	4.00 - 4.50

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Grounding

(continued) Fence Post Grounding Connector - Type GAR

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Iron Pipe Size (in.)	O.D. Range (in.)
GAR2226	GAR2226	4 Sol. - 2/0 Str.	4.00	4.00 - 4.50
GAR2229	GAR2229	2/0 Sol. - 250	4.00	4.00 - 4.50
GAR2234	GAR2234	300 - 500	4.00	4.00 - 4.50
GAR244C	GAR244C	8 Sol. - 4 Str.	5.00	-----
GAR2426	GAR2426	4 Sol. - 2/0 Str.	5.00	-----
GAR2429	GAR2429	2/0 Sol. - 250	5.00	-----
GAR2434	GAR2434	300 - 500	5.00	-----
GAR8629	GAR8629	2/0 Sol. - 250	6.00	-----

Cast Bronze Ground Clamps With Lay-in Feature

BURNDY

APPLICATIONS

For connecting grounding conductor to water pipe, copper tube, ground rod or rebar. The open-face design allows for fast lay-in of the tap conductor without the need for cutting.

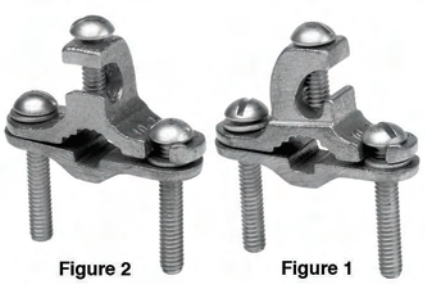


Figure 2 Figure 1

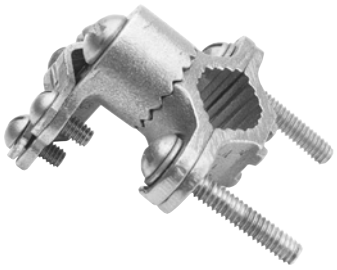
Anixter No.	Vendor No.	Figure Number	Water Pipe Size (in.)	Ground Rod Size (in.)	Conductor Size AWG/ kcmil (Rebar)	Conductor Size AWG/ kcmil (Ground)
C11K16D	C11K16D	1	0.50 - 1.00	0.375 - 1.00	#4 - #6	10 - 2 Str.
C11K17D	C11K17D	2	0.50 - 1.00	0.375 - 1.00	#4 - #6	10 - 2 Str.

Cast Bronze Ground Clamps

BURNDY

APPLICATIONS

For connecting grounding conductor, EMT or rigid conduit to water pipe, copper tube, ground rod or rebar.



Anixter No.	Vendor No.	Water Pipe Size (in.)	Ground Rod Size (in.)	Conductor Size AWG/ kcmil (Rebar)	Conductor Size AWG/ kcmil (Ground)
C11HD4/0DB	C11HD4/0DB	0.50 - 1.00	0.375 - 1.00	#4 - #6	8 - 4/0 AWG
C22HD4/0DB	C22HD4/0DB	1.25 - 2.00	-----	-----	8 - 4/0 AWG

Machine-plated Aluminum Cord Grips

REMKE INDUSTRIES

APPLICATIONS

For applications with severe conditions such as oil and gas, marine, food and chemical processing, providing exceptional corrosion and high wear resistance. Cord grips protect cable from damage and pull-out, and are used in conduit hubs or knockouts at the point where the cable is to be terminated.

STRAIGHT MACHINE-PLATED ALUMINUM CORD GRIPS

Anixter No.	Vendor No.	Hub Size (in.)	Cable Range
230362	RSR-104	0.50	0.188 - 0.250
230361	RSR-105	0.50	0.250 - 0.312
245091	RSR-106	0.50	0.312 - 0.375
245092	RSR-107	0.50	0.375 - 0.438
245093	RSR-108	0.50	0.438 - 0.500
245094	RSR-109	0.50	0.500 - 0.562
309591	RSR-110	0.50	0.562 - 0.625
327235	RSR-1212	0.50	0.625 - 0.750
RSR-206	RSR-206	0.75	0.250 - 0.375
RSR-208	RSR-208	0.75	0.438 - 0.500
RSR-209	RSR-209	0.75	0.500 - 0.562
245095	RSR-210	0.75	0.500 - 0.625
245096	RSR-211	0.75	0.562 - 0.688
245097	RSR-212	0.75	0.625 - 0.750
245098	RSR-213	0.75	0.688 - 0.812
309596	RSR-2314	0.75	0.750 - 0.875
RSR-309	RSR-309	1.00	0.438 - 0.562
RSR-311	RSR-311	1.00	0.562 - 0.688
RSR-312	RSR-312	1.00	0.625 - 0.750
309592	RSR-313	1.00	0.688 - 0.812
309593	RSR-314	1.00	0.750 - 0.875
245099	RSR-315	1.00	0.812 - 0.938
RSR-316	RSR-316	1.00	0.875 - 1.000
309594	RSR-416	1.25	0.875 - 1.000
320044	RSR-418	1.25	1.000 - 1.125
278730	RSR-420	1.25	1.125 - 1.250
230331	RSR-422	1.25	1.250 - 1.375
260831	RSR-513	1.50	0.688 - 0.812
320045	RSR-518	1.50	1.000 - 1.125
RSR-520	RSR-520	1.50	1.125 - 1.250
256981	RSR-522	1.50	1.250 - 1.375
309597	RSR-5625	1.50	1.438 - 1.562
428582	RSR-623	2.00	1.312 - 1.417
309605	RSR-625	2.00	1.438 - 1.562
309607	RSR-627	2.00	1.562 - 1.688
371371	RSR-629	2.00	1.688 - 1.812
229338	RSR-731	2.50	1.812 - 1.938
429346	RSR-733	2.50	1.938 - 2.062
RSR-737	RSR-737	2.50	2.188 - 2.312
RSR-739	RSR-739	2.50	2.312 - 2.438
309609	RSR-8760	3.00	2.590 - 2.720
RSR-901	RSR-901	3.00	2.437 - 2.625

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Cord Grips

(continued) Machine-plated Aluminum Cord Grips

90-DEGREE NICKEL-PLATED ALUMINUM CORD GRIPS

Anixter No.	Vendor No.	Hub Size (in.)	Cable Range
230321	RSR-9106	0.50	0.312 - 0.375
309599	RSR-9107	0.50	0.375 - 0.438
309600	RSR-9109	0.50	0.500 - 0.562
229343	RSR-9210	0.75	0.500 - 0.625
309601	RSR-9212	0.75	0.625 - 0.750
309602	RSR-9422	1.25	1.250 - 1.375
309603	RSR-9520	1.50	1.125 - 1.250
230311	RSR-9522	1.50	1.250 - 1.375
309604	RSR-9525	1.50	1.438 - 1.562

90-degree cord grip assembly

STRAIGHT NICKEL-PLATED ALUMINUM CORD GRIPS - MESH

Anixter No.	Vendor No.	Hub Size (in.)	Cable Range
230360	RSR-105-E	0.50 with mesh	0.250 - 0.312
423297	RSR-106-E	0.50 with mesh	0.312 - 0.375
423298	RSR-107-E	0.50 with mesh	0.375 - 0.438
423299	RSR-108-E	0.50 with mesh	0.438 - 0.500
423300	RSR-109-E	0.50 with mesh	0.500 - 0.562
423301	RSR-110-E	0.50 with mesh	0.562 - 0.625
230352	RSR-1210-E	0.50 with mesh	0.562 - 0.625
230344	RSR-211-E	0.75 with mesh	0.562 - 0.688
229328	RSR-212-E	0.75 with mesh	0.625 - 0.750
423302	RSR-213-E	0.75 with mesh	0.688 - 0.812
229329	RSR-310-E	1.00 with mesh	0.500 - 0.625
229330	RSR-312-E	1.00 with mesh	0.625 - 0.750
309595	RSR-314-E	1.00 with mesh	0.750 - 0.875
230337	RSR-315-E	1.00 with mesh	0.812 - 0.938
423303	RSR-316-E	1.00 with mesh	0.875 - 1.000
260829	RSR-418-E	1.25 with mesh	1.000 - 1.125
229333	RSR-420-E	1.25 with mesh	1.125 - 1.250
229336	RSR-422-E	1.25 with mesh	1.250 - 1.375
230371	RSR-518-E	1.50 with mesh	1.000 - 1.125
341080	RSR-520-E	1.50 with mesh	1.125 - 1.250
266406	RSR-522-E	1.50 with mesh	1.250 - 1.375
309606	RSR-625-E	2.00 with mesh	1.438 - 1.562
260827	RSR-627-E	2.00 with mesh	1.562 - 1.688
230325	RSR-6731-E	2.00 with mesh	1.812 - 1.938
260862	RSR-733-E	2.50 with mesh	1.938 - 2.068
269681	RSR-8735-E	3.00 with mesh	2.062 - 2.188
309610	RSR-8760-E	3.00 with mesh	2.590 - 2.720

Cord grip assembly with mesh

Cord Grips

Straight Body Electrogalvanized Steel Cord and Cable Connectors

COOPER CROUSE-HINDS

APPLICATIONS

Cord series color-coded grips with neoprene bushings are for use with portable cords, including S, SO, STO, ST, SJ, SJT, SJTO and SVO.

Straight body cord grips 1/2 in. - 1 1/2 in.

Anixter No.	Vendor No.	Hub Size (in.)	Cable Range Nominal O.D. (in.)
CG50-250	CG50-250	0.50	0.15 - 0.25
CG50-350	CG50-350	0.50	0.25 - 0.35
CG50-450	CG50-450	0.50	0.35 - 0.45
CG50-560	CG50-560	0.50	0.45 - 0.56
CG50-650	CG50-650	0.50	0.55 - 0.65
CG75-250	CG75-250	0.75	0.15 - 0.25
CG75-350	CG75-350	0.75	0.25 - 0.35
CG75-450	CG75-450	0.75	0.35 - 0.45
CG75-560	CG75-560	0.75	0.45 - 0.56
CG75-650	CG75-650	0.75	0.55 - 0.65
CG75-750	CG75-750	0.75	0.65 - 0.75
CG75-850	CG75-850	0.75	0.75 - 0.85
CG100-560	CG100-560	1.00	0.45 - 0.56
CG100-650	CG100-650	1.00	0.55 - 0.65
CG100-750	CG100-750	1.00	0.65 - 0.75
CG100-850	CG100-850	1.00	0.75 - 0.85
CG100-950	CG100-950	1.00	0.85 - 0.95
CG100-1050	CG100-1050	1.00	0.95 - 1.05
CG125-850	CG125-850	1.25	0.75 - 0.85
CG125-950	CG125-950	1.25	0.85 - 0.95
CG125-1050	CG125-1050	1.25	0.95 - 1.05
CG125-1150	CG125-1150	1.25	1.05 - 1.15
CG125-1250	CG125-1250	1.25	1.15 - 1.25
CG125-1375	CG125-1375	1.25	1.250 - 1.375
CG150-1050	CG150-1050	1.50	0.95 - 1.05
CG150-1150	CG150-1150	1.50	1.05 - 1.15
CG150-1250	CG150-1250	1.50	1.15 - 1.25
CG150-1375	CG150-1375	1.50	1.250 - 1.375

Cord Grips

Lapp Skintop Cord Grips (Non-metallic)

LAPP SYSTEMS USA AND LAPP LA

SPECIFICATIONS

1. Materials:
   -Body: Polyamide
   -Bushing: CR
2. Color:
   -Black (RAL 9005) UV Resistance
   -Gray (RAL 7001)
3. Protection: 70PSI
4. Seal: IP68, 5 Bar (Exceeds NEMA 6/6P Pressure rating)
5. Temperature: -20°C to 80°C

APPLICATIONS

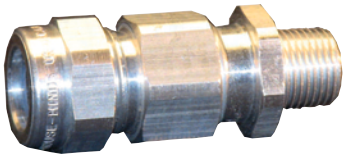
Skintops are a durable, liquid-tight, easy-to-assemble strain relief gland with NPT threads that are universally suited for all types of machinery and equipment, including automation, motion control, process control and robotics.

Anixter No.	Vendor No.	Color	Thread Type	Cable Range
S1138	S1138	Gray	NPT-3/8	0.135 - 0.350
S2138	S2138	Black	NPT-3/8	0.135 - 0.350
S1212	S1212	Gray	NPT-1/2	0.135 - 0.350
S2212	S2212	Black	NPT-1/2	0.135 - 0.350
S1109	S1109	Gray	PG-9	0.135 - 0.350
S2109	S2109	Black	PG-9	0.135 - 0.350
S1111	S1111	Gray	PG-11	0.135 - 0.350
S2111	S2111	Black	PG-11	0.135 - 0.350
S1113	S1113	Gray	PG-13	0.225 - 0.400
S2113	S2113	Black	PG-13	0.225 - 0.400
S1234	S1234	Gray	NPT-3/4	0.325 - 0.500
S2234	S2234	Black	NPT-3/4	0.325 - 0.500
S1116	S1116	Gray	PG-16	0.325 - 0.500
S2116	S2116	Black	PG-16	0.325 - 0.500
S1221	S1221	Gray	PG-21	0.325 - 0.500
S2221	S2221	Black	PG-21	0.325 - 0.500
S1229	S1229	Gray	PG-29	0.425 - 0.600
S2229	S2229	Black	PG-29	0.425 - 0.600
S1134	S1134	Gray	NPT-3/4	0.525 - 0.750
S2134	S2134	Black	NPT-3/4	0.525 - 0.750
S1201	S1201	Gray	NPT-1	0.525 - 0.750
S2201	S2201	Black	NPT-1	0.525 - 0.750
S1121	S1121	Gray	PG-21	0.525 - 0.750
S2121	S2121	Black	PG-21	0.525 - 0.750
S1129	S1129	Gray	PG-29	0.600 - 0.900
S2129	S2129	Black	PG-29	0.600 - 0.900
S1101	S1101	Gray	NPT-1	0.750 - 1.100
S2101	S2101	Black	NPT-1	0.750 - 1.100
S1136	S1136	Gray	PG-36	0.950 - 1.200
S2136	S2136	Black	PG-36	0.950 - 1.200
S1142	S1142	Gray	PG-42	1.100 - 1.400
S2142	S2142	Black	PG-42	1.100 - 1.400

Armor-clad Connectors

TMC Connector

COOPER CROUSE-HINDS



FEATURES

- Quick and easy to install. No disassembly is required for TMC installation
- Neoprene bushing provides watertight seal
- Lightweight, corrosion-resistant/copper-free aluminum
- Optional all-brass construction available
- Hex design for easy wrenching
- Compact size for close nesting of cables

Technical Information & Standards

NEC: Class I, Groups A, B, C, D CSA Standard C22.2 No. 18-M1987
Class II, Groups F, G Class I, A, B, C, D SL
Class III, Div 1 and 2 (except when used with Tray Cable) Class III, Enc. four locations
UL Standards: 514B, 886

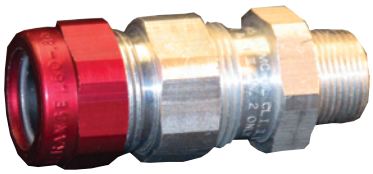
APPLICATIONS

Terminator cable fittings are designed for use with Type MC-corrugated aluminum, interlocked aluminum and interlocked steel Type TC tray cable.

Anixter No.	Vendor No.	NPT Thread Size	Armor O.D. Range
7CH-TMC165	TMC165	1/2"	0.44 to 0.65
7CH-TMC285	TMC285	3/4"	0.60 to 0.85
7CH-TMC3112	TMC3112	1"	0.80 to 1.12
7CH-TMC4140	TMC4140	1 1/4"	1.10 to 1.40
7CH-TMC5161	TMC5161	1 1/2"	1.33 to 1.61
7CH-TMC6206	TMC6206	2"	1.57 to 2.06
7CH-TMC7247	TMC7247	2 1/2"	1.93 to 2.47
7CH-TMC8302	TMC8302	3"	2.45 to 3.02
7CH-TMC9352	TMC9352	3 1/2"	2.95 to 3.52

TMCX Connector

COOPER CROUSE-HINDS



FEATURES

- Standard material is aluminum
- Stainless steel copper-plated provides grounding continuity of cable armor (MC Cable only)
- Provides explosion proof compound seal on conductors and watertight seal on outer sheath of cable
- Standard neoprene seal for use in operating temperatures -25° to 60°C

Technical Information & Standards

UL Listed
CSA Certified Class I, Div. 1 Groups, A, B, C, D
Class II, Class III - UL File E122485, CSA File LR 13046
NEMA 4 and IP56 Rated
Wet locations

APPLICATIONS

Terminator cable fittings are designed for use with Type MC-corrugated aluminum, interlocked aluminum and interlocked steel Type TC tray cable.

Anixter No.	Vendor No.	NPT Thread Size	Armor O.D. Range
7CH-TMCX165	TMCX165	1/2"	0.44 to 0.65
7CH-TMCX285	TMCX285	3/4"	0.60 to 0.85
7CH-TMCX3112	TMCX3112	1"	0.80 to 1.12
7CH-TMCX4140	TMCX4140	1 1/4"	1.10 to 1.40
7CH-TMCX5161	TMCX5161	1 1/2"	1.33 to 1.61
7CH-TMCX6206	TMCX6206	2"	1.57 to 2.06
7CH-TMCX7247	TMCX7247	2 1/2"	1.93 to 2.47
7CH-TMCX8302	TMCX8302	3"	2.45 to 3.02
7CH-TMCX9352	TMCX9352	3 1/2"	2.95 to 3.52

Armor-clad Connectors

TMC Connector

CMP USA

FEATURES

- Integral '0' ring face seal providing - 4X and IP66
- Additional integral deluge-proof seal for protection in extreme offshore and onshore environments
- Independent sealing and armor clamping
- True 360° grounding
- Superior pull-out prevention
- Compact slim profile
- Reduced installation time (no disassembly required)
- Widest cable acceptance range
- Reusable design
- Only 13 gland sizes required
- Metric option available

Technical Information & Standards

Type	TMC	
Classification	NEC	Class II Div 1 & 2 Groups E, F, G
		Class III Div 1 & 2 - Class 1 Zone 1 AExe II
	CEC	Class II Div 1 & 2 Groups E, F, G
		Class III Div 1 & 2 - Class 1 Zone 1 Exe II
Compliance Code		UL Standard 514B, 886 - CSA Standard C22.2 No 18, 174 IEC60079
Certification/Listings		UL Listing File: E163112 - CSA Certificate No: 1129339
Enclosure Types		NEMA 3, 4X and IP66
Connector Material		Copper-free aluminum (< 0.4%)
		Nickel-plated brass, stainless steel
Cable Type		MC/MCHL - Corrugated/interlocked aluminum/steel armor and continuously welded armor cables, e.g. Teck or CLX

Notes:

1) Where explosion proof enclosures are being used - the TMC must be installed in conjunction with an approved pouring or compound sealing fitting. In Division 2 areas the TMC can be fitted directly to an enclosure which has no source of ignition in accordance with NEC/CEC requirements.
2) Connectors with NPT entry threads are suitable for both divisions and zones.
3) Connectors with metric entry threads are suitable for zones only unless fitted with an approved NPT male adapter in accordance with CEC requirements.
4) '0' ring face seal supplied as standard only with aluminum.

APPLICATIONS

The CMP TMC Connector range has been developed in response to the need for a rugged and reliable cable terminating solution with inherent ease of installation and maintenance. Designed for use with interlocked and continuously welded/corrugated armor cable. For use in both ordinary and hazardous (classified) locations.

Armor-clad Connectors

ALUMINUM

Anixter No.	Vendor No.	Entry Thread NPT (in.)	Min. Thread Length (in.)	Armor Diameter End Stop In Min. (in.)	Armor Diameter End Stop In Max. (in.)	Armor Diameter End Stop Out Min. (in.)	Armor Diameter End Stop Out Max. (in.)	Cable Jacket Diameter Min. (in.)	Cable Jacket Diameter Max. (in.)
TMC050A	TMC050A	1/2	0.590	-----	-----	0.510	0.669	0.550	0.787
TMC075A	TMC075A	3/4	0.590	0.591	0.756	0.756	0.917	0.669	1.035
TMC100A	TMC100A	1	0.630	0.825	0.969	0.969	1.150	0.910	1.268
TMC125A	TMC125A	1 1/4	0.630	1.083	1.228	1.228	1.386	1.161	1.504
TMC150A	TMC150A	1 1/2	0.630	1.320	1.461	1.461	1.618	1.402	1.736
TMC200A	TMC200A	2	0.630	1.772	1.933	1.933	2.087	1.858	2.205
TMC250A	TMC250A	2 1/2	0.900	2.247	2.406	2.406	2.545	2.327	2.677
TMC300A	TMC300A	3	0.980	2.543	2.776	2.776	2.965	2.622	3.126
TMC350A	TMC350A	3 1/2	1.437	2.913	3.291	3.291	3.485	2.992	3.827

NP BRASS

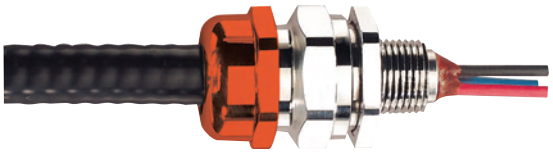
Anixter No.	Vendor No.	Entry Thread NPT (in.)	Min. Thread Length (in.)	Armor Diameter End Stop In Min. (in.)	Armor Diameter End Stop In Max. (in.)	Armor Diameter End Stop Out Min. (in.)	Armor Diameter End Stop Out Max. (in.)	Cable Jacket Diameter Min. (in.)	Cable Jacket Diameter Max. (in.)
TMC050NB	TMC050NB	1/2	0.590	-----	-----	0.510	0.669	0.550	0.787
TMC075NB	TMC075NB	3/4	0.590	0.591	0.756	0.756	0.917	0.669	1.035
TMC100NB	TMC100NB	1	0.630	0.825	0.969	0.969	1.150	0.910	1.268
TMC125NB	TMC125NB	1 1/4	0.630	1.083	1.228	1.228	1.386	1.161	1.504
TMC150NB	TMC150NB	1 1/2	0.630	1.320	1.461	1.461	1.618	1.402	1.736
TMC200SNB	TMC200SNB	2	0.630	1.508	1.677	1.677	1.854	1.579	2.008
TMC200NB	TMC200NB	2	0.630	1.772	1.933	1.933	2.087	1.858	2.205
TMC250NB	TMC250NB	2 1/2	0.900	2.247	2.406	2.406	2.545	2.327	2.677
TMC300NB	TMC300NB	3	0.980	2.543	2.776	2.776	2.965	2.622	3.126
TMC350NB	TMC350NB	3 1/2	1.437	2.913	3.291	3.291	3.485	2.992	3.827

Armor-clad Connectors

TMCX Connector

CMP USA

FEATURES



- Additional integral deluge-proof seal for protection in extreme offshore and onshore environments
- Independent sealing and armor clamping
- True 360° grounding
- Superior pull-out prevention
- Compact slim profile
- Reduced installation time
- Widest cable acceptance range
- Supplied complete with epoxy sealing compound
- Disconnectable design

Technical Information & Standards

Type	TMCX	
Classification	NEC	Class I Div 1 & 2 Groups A, B, C, D
		Class II Div 1 & 2 Groups E, F, G
		Class III Div 1 & 2 - Class 1 Zone 1 AExd IIC
	CEC	Class I Div 1 & 2 Groups A, B, C, D
		Class II Div 1 & 2 Groups E, F, G
		Class III Div 1 & 2 - Class 1 Zone 1 Exd IIC
Compliance Code		UL Standard 514B, 886, 2225, 2279
		CSA Standard C22.2 No 18, 174 and IEC60079
Certification/Listings		UL Listing File: E161256 - CSA Certificate No: 1129339
Enclosure Types		NEMA 3, 4, 4X and IP66
Connector Material		Copper-free aluminum (<0.4%)
		Nickel-plated brass, stainless steel
Cable Type		MC/MCHL - Corrugated/interlocked aluminum/steel armor and continuously welded armor cables, e.g. Teck or CLX

Notes:

1) Connectors with NPT entry threads are suitable for both divisions and zones.

2) Connectors with metric entry threads are suitable for zones only unless fitted with an approved NPT male adapter in accordance with CEC requirements.

APPLICATIONS

The CMP TMCX Connector range has been designed for the termination of continuous corrugated and interlocked cables in hazardous locations. In these conditions it is necessary to provide a complete gas block and explosion proof seal to the cable. This design provides an easy, fast and safe method of installation and has many notable features.

Armor-clad Connectors

ALUMINIUM

Anixter No.	Vendor No.	Entry Thread NPT (in.)	Entry Thread Metric	Min. Thread Length (in.)	Armor Diameter End Stop In Min. (in.)	Armor Diameter End Stop In Max. (in.)	Armor Diameter End Stop Out Min. (in.)	Armor Diameter End Stop Out Max. (in.)	Cable Jacket Diameter Min. (in.)	Cable Jacket Diameter Max. (in.)
TMCX050A	TMCX050A	1/2	M20	0.590	-----	-----	0.510	0.669	0.550	0.787
TMCX075A	TMCX075A	3/4	M25	0.590	0.591	0.756	0.756	0.917	0.669	1.035
TMCX100A	TMCX100A	1	M32	0.630	0.825	0.969	0.969	1.150	0.910	1.268
TMCX125A	TMCX125A	1 1/4	M40	0.630	1.083	1.228	1.228	1.386	1.161	1.504
TMCX150A	TMCX150A	1 1/2	M50	0.630	1.320	1.461	1.461	1.618	1.402	1.736
TMCX200A	TMCX200A	2	M63	0.630	1.508	1.933	1.933	2.087	1.858	2.205
TMCX250A	TMCX250A	2 1/2	M75	0.900	2.247	2.406	2.406	2.545	2.327	2.677
TMCX300A	TMCX300A	3	M90	0.980	2.543	2.776	2.776	2.965	2.622	3.126
TMCX350A	TMCX350A	3 1/2	M100	1.437	2.913	3.291	3.291	3.485	2.992	3.827

NP BRASS

Anixter No.	Vendor No.	Entry Thread NPT (in.)	Entry Thread Metric	Min. Thread Length (in.)	Armor Diameter End Stop In Min. (in.)	Armor Diameter End Stop In Max. (in.)	Armor Diameter End Stop Out Min. (in.)	Armor Diameter End Stop Out Max. (in.)	Cable Jacket Diameter Min. (in.)	Cable Jacket Diameter Max. (in.)
TMCX050NB	TMCX050NB	1/2	M20	0.590	-----	-----	0.510	0.669	0.550	0.787
TMCX075NB	TMCX075NB	3/4	M25	0.590	0.591	0.756	0.756	0.917	0.669	1.035
TMCX100NB	TMCX100NB	1	M32	0.630	0.825	0.969	0.969	1.150	0.910	1.268
TMCX125NB	TMCX125NB	1 1/4	M40	0.630	1.083	1.228	1.228	1.386	1.161	1.504
TMCX150NB	TMCX150NB	1 1/2	M50	0.630	1.320	1.461	1.461	1.618	1.402	1.736
TMCX200NB	TMCX200NB	2	M63	0.630	1.772	1.933	1.933	2.087	1.858	2.205
TMCX250NB	TMCX250NB	2 1/2	M75	0.900	2.247	2.406	2.406	2.545	2.327	2.677
TMCX300NB	TMCX300NB	3	M90	0.980	2.543	2.776	2.776	2.965	2.622	3.126
TMCX350NB	TMCX350NB	3 1/2	M100	1.437	2.913	3.291	3.291	3.485	2.992	3.827

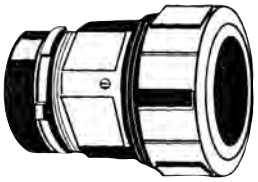
Armor-clad Connectors

JAG - Armored Cable Fittings

ADALET-PLM

Type JAG (Jacketed, Armored, Gasketed)

Termination fittings



SPECIFICATIONS

1. Made from copper-free aluminum alloy
2. Thick neoprene bushing allows for weatherproof installation
3. Slip-on installation with no disassembly required
4. Locknuts, bushing and flange gasket included
5. UL Listed, CSA Certified
6. Cable range: 0.35 in. to 4.62 in. O.D.

APPLICATIONS

Designed for use with interlocked or continuously welded corrugated armor cables with a jacket over the armor. Used to connect metal-clad cable to junction enclosures, motors or for termination of branch circuits, etc.

To order: Determine satisfactory fit by checking cable dimensions A and B. If cable dimensions do not fall within acceptable range, consult your local sales representative.

Anixter No.	Vendor No.	Dim. A Diameter over Jacket Min. (in.)	Dim. B Max. Cable Core Diameter (in.)	Conduit Size (in.)	Fitting O.D. (in.)	Length Overall (in.)	Ship Wt. lb.
7J-JAG45-05	JAG45-05	0.35	0.61	0.50	1.63	2.25	0.25
7J-JAG55-05	JAG55-05	0.45	0.61	0.50	1.63	2.25	0.25
7J-JAG65-05	JAG65-05	0.55	0.61	0.50	1.63	2.25	0.25
7J-JAG75-05	JAG75-05	0.65	0.61	0.50	1.63	2.25	0.25
7J-JAG85-05	JAG85-05	0.75	0.61	0.50	1.63	2.25	0.25
7J-JAG95-05	JAG95-05	0.85	0.61	0.50	1.63	2.25	0.25
7J-JAG99-07	JAG99-07	0.85	0.81	0.75	2.00	2.63	0.33
7J-JAG107-07	JAG107-07	0.92	0.81	0.75	2.00	2.63	0.33
7J-JAG113-07	JAG113-07	0.98	0.81	0.75	2.00	2.63	0.33
7J-JAG121-07	JAG121-07	1.07	0.81	0.75	2.00	2.63	0.33
7J-JAG112-10	JAG112-10	1.00	1.00	1.00	2.37	3.06	0.50
7J-JAG125-10	JAG125-10	1.12	1.00	1.00	2.37	3.06	0.50
7J-JAG138-10	JAG138-10	1.22	1.00	1.00	2.37	3.06	0.50
7J-JAG138-12	JAG138-12	1.28	1.25	1.25	2.87	3.37	0.66
7J-JAG156-12	JAG156-12	1.38	1.25	1.25	2.87	3.37	0.66
7J-JAG174-12	JAG174-12	1.56	1.25	1.25	2.87	3.37	0.66
7J-JAG188-12	JAG188-12	1.74	1.25	1.25	2.87	3.37	0.66
7J-JAG174-15	JAG174-15	1.60	1.63	1.50	3.25	4.06	1.00
7J-JAG188-15	JAG188-15	1.74	1.63	1.50	3.25	4.06	1.00
7J-JAG200-15	JAG200-15	1.88	1.63	1.50	3.25	4.06	1.00
7J-JAG218-15	JAG218-15	2.00	1.63	1.50	3.25	4.06	1.00
7J-JAG219-20	JAG219-20	2.05	2.09	2.00	4.00	4.31	1.50
7J-JAG236-20	JAG236-20	2.19	2.09	2.00	4.00	4.31	1.50
7J-JAG247-20	JAG247-20	2.35	2.09	2.00	4.00	4.31	1.50
7J-JAG261-20	JAG261-20	2.47	2.09	2.00	4.00	4.31	1.50
7J-JAG263-25	JAG263-25	2.46	2.49	2.50	4.71	5.44	2.50
7J-JAG280-25	JAG280-25	2.62	2.49	2.50	4.71	5.44	2.50
7J-JAG296-25	JAG296-25	2.80	2.49	2.50	4.71	5.44	2.50
7J-JAG297-30	JAG297-30	2.80	3.11	3.00	5.09	5.75	3.00
7J-JAG311-30	JAG311-30	2.95	3.11	3.00	5.09	5.75	3.00
7J-JAG327-30	JAG327-30	3.10	3.11	3.00	5.09	5.75	3.00
7J-JAG343-30	JAG343-30	3.26	3.11	3.00	5.09	5.75	3.00
7J-JAG359-30	JAG359-30	3.42	3.11	3.00	5.09	5.75	3.00
7J-JAG375-35	JAG375-35	3.52	3.61	3.50	5.68	5.81	3.25
7J-JAG392-35	JAG392-35	3.75	3.61	3.50	5.68	5.81	3.25

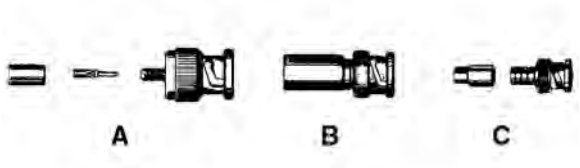
Armor-clad Connectors

Anixter No.	Vendor No.	Dim. A Diameter over Jacket Min. (in.)	Dim. B Max. Cable Core Diameter (in.)	Conduit Size (in.)	Fitting O.D. (in.)	Length Overall (in.)	Ship Wt. lb.
7J-JAG412-35	JAG412-35	3.90	3.61	3.50	5.68	5.81	3.25
7J-JAG423-40	JAG423-40	4.05	4.11	4.00	6.09	5.81	3.50
7J-JAG437-40	JAG437-40	4.20	4.11	4.00	6.09	5.81	3.50
7J-JAG451-40	JAG451-40	4.34	4.11	4.00	6.09	5.81	3.50
7J-JAG462-40	JAG462-40	4.43	4.11	4.00	6.09	5.81	3.50

Coax Connectors

BNC Plug Connectors

TERM TYPE LEGEND
H-C-C = Hex Crimp Center Contact and braid
O-C-C = "O" Crimp Center Contact and braid
H-C = Captive Center Contact and Crimp braid



RG-59/62 CABLE

Anixter No.	Vendor	Vendor No.	Term Type	Figure	Term Tool Anixter No.	Term Tool Vendor No.	Notes
BNC-2-N	TE Connectivity	BNC-2-N	H-C-C	A	215110	WT-2	Notched - use die 215111
2065-7-9	Kings	2065-7-9	H-C-C	A	KTH-1000	KTH-1000	Use with die KTH-2261, 75 ohms
194127	Amphenol	31-71008	H-C-C	A	140497	CTL-1	Nominal 75 ohms
251505	Emerson	CP-78-2	H-C	C	268425	24-8789P	75 ohms

RG-59/62 PLENUM CABLE

Anixter No.	Vendor	Vendor No.	Term Type	Figure	Term Tool Anixter No.	Term Tool Vendor No.	Notes
BNC-15	TE Connectivity	BNC-15	H-C-C	A	215110	WT-2	Use die 215111
2065-7-9	Kings	2065-7-9	H-C-C	A	KTH-1000	KTH-1000	Use with die KTH-2261, 75 ohms
194129	Amphenol	31-71008-2000	H-C-C	A	140499	CTL-2	Nominal 75 ohms
257834	Emerson	CP-78-10	H-C	C	268425	24-8789P	75 ohms

RG-59 PVC, 20 AWG

Anixter No.	Vendor	Vendor No.	Term Type	Figure	Term Tool Anixter No.	Term Tool Vendor No.	Notes
BNC-1-N	TE Connectivity	BNC-1-N	H-C-C	A	215110	WT-2	Notched - use die 215111
2065-2-9	Kings	2065-2-9	H-C-C	A	KTH-1000/KTH-2261	KTH-1000/KTH-2261	75 ohms
194128	Amphenol	31-71008-1000	H-C-C	A	140497	CTL-1	Nominal 75 ohms
251505	Emerson	CP-78-2	H-C	C	268425	24-8789P	75 ohms

RG-59 PLENUM, 20 AWG

Anixter No.	Vendor	Vendor No.	Term Type	Figure	Term Tool Anixter No.	Term Tool Vendor No.	Notes
BNC-6-N	TE Connectivity	BNC-6-N	H-C-C	A	215110	WT-2	Notched - use die 215111
2065-2-9	Kings	2065-2-9	H-C-C	A	KTH-1000/KTH-2261	KTH-1000/KTH-2261	75 ohms
239844	Amphenol	31-71035	H-C-C	A	166924	CTL-8	Nominal 75 ohms

RG-6 PVC CABLE

Anixter No.	Vendor	Vendor No.	Term Type	Figure	Term Tool Anixter No.	Term Tool Vendor No.	Notes
BNC-8-N	TE Connectivity	BNC-8-N	H-C-C	A	215110	WT-2	Notched, die 325946
2065-10-9	Kings	2065-10-9	H-C-C	A	KTH-1000/Die KTH-2255	KTH-1000/Die KTH-2255	75 ohms for 1694A, 9114, 9248, 9290
166931	Amphenol	31-70000	H-C-C	A	166924	CTL-8	75 ohms
255034	Amphenol	31-71000-RFX	H-C-C	A	166924	CTL-8	Nominal 75 ohms
251504	Emerson	28-90027	H-C	B	257279	24-321P	75 ohms
194118	Amphenol	31-71064	H-C-C	A	140449	CTL-2	Nominal 75 ohms

RG-6 PLENUM CABLE

Anixter No.	Vendor	Vendor No.	Term Type	Figure	Term Tool Anixter No.	Term Tool Vendor No.	Notes
BNC-10-N	TE Connectivity	BNC-10-N	H-C-C	A	215110	WT-2	Notched - use die 215111
2065-10-9	Kings	2065-10-9	H-C-C	A	KTH-1000/Die KTH-2255	KTH-1000/Die KTH-2255	75 ohms for 1694A, 9114, 9248, 9290
251505	Emerson	CP-78-2	H-C	C	268425	24-8789P	75 ohms

RG-6 QUAD SHIELD

Anixter No.	Vendor	Vendor No.	Term Type	Figure	Term Tool Anixter No.	Term Tool Vendor No.	Notes
BNC-9-N	TE Connectivity	BNC-9-N	H-C-C	A	215110	WT-2	Notched, die WD-1

Coax Connectors

RG-11 COAX PLUGS

Anixter No.	Vendor	Vendor No.	Term Type	Figure	Term Tool Anixter No.	Term Tool Vendor No.	Notes
BNC-25-N	TE Connectivity	BNC-25-N	H-C-C	A	215110	WT-2	Notched, die WD-6
2065-8-9	Kings	2065-8-9	H-C-C	A	KTH-1000	KTH-1000	75 ohms die KTH-2004

OTHER COAX PLUGS, UHF, RG-8/9/11/213/214 AND OTHER

Anixter No.	Vendor	Vendor No.	Term Type	Figure	Term Tool Anixter No.	Term Tool Vendor No.	Notes
110061	Amphenol	83-1SP-1050	Solder/clamp	Not shown	Not needed	-----	UHF - PL259
110111	Amphenol	6775	Solder/clamp	Not shown	Not needed	-----	50 ohms for RG-8/9/11/213/214

OTHER COAX PLUGS, MINI RG-59, MINI UHF

Anixter No.	Vendor	Vendor No.	Term Type	Figure	Term Tool Anixter No.	Term Tool Vendor No.	Notes
BNC-7	TE Connectivity	BNC-7	H-C-C	A	215110	WT-2	Use die 215111 (8218)
BNC-13-N	TE Connectivity	BNC-13-N	H-C-C	A	215110	WT-2	Notched, die 215111 (1855A)
2065-11-9	Kings	2065-11-9	H-C-C	A	KTH-1000/ DIE-KTH-2025	KTH-1000/DIE-KTH-2025	75 ohms for 1855A and 1856A
CPMC-88-18	Emerson	CPMC-88-18	H-C-C	A	-----	24-306P	Mini RG-59, 8218, 50 ohms
166927	Amphenol	31-71033	H-C-C	A	140499	CTL-2	RGB-SVHS cables, 75 ohms

BROADCAST CABLE (BELDEN 8281 OR EQUAL)

Anixter No.	Vendor	Vendor No.	Term Type	Figure	Term Tool Anixter No.	Term Tool Vendor No.	Notes
BNC-4-N	TE Connectivity	BNC-4-N	H-C-C	A	215110	WT-2	Notched, die WD-1
2065-15-9	Kings	2065-15-9	H-C-C	A	KTH-1000	KTH-1000	Use with die KTH-2119, 75 ohms
166930	Amphenol	31-71032	H-C-C	A	140449	CTL-2	Nominal 75 ohms

RG-174, RG-179 BNC PLUGS

Anixter No.	Vendor	Vendor No.	Term Type	Figure	Term Tool Anixter No.	Term Tool Vendor No.	Notes
BNC-16-N	TE Connectivity	BNC-16-N	H-C-C	A	215110	WT-2	Notched, for RG-174, die 215111
BNC-31-N	TE Connectivity	BNC-31-N	H-C-C	A	215110	WT-2	Notched, for RG-179, die 215111
194130	Amphenol	31-71013	H-C-C	A	140499	CTL-2	For RG-179, 75 ohms

DS3 (75 OHMS) - 734A AND 735A COAXIAL CABLE

Anixter No.	Vendor	Vendor No.	Description	Term Tool Anixter No.	Term Tool Vendor No.
BNC-1-N	TE Connectivity	BNC-1-N	For cable 734A, 1505A, 1506A, 9259	215110	WT-2
2025-76-9	Kings	2025-76-9	Straight BNC, 734A	KTH-1000/KTH-2186	KTH-1000/KTH-2186
2026-16-9	Kings	2026-16-9	Right Angle BNC, 734A	KTH-1000/KTH-2186	KTH-1000/KTH-2186
BNC-3-N	TE Connectivity	BNC-3-N	Straight BNC, 735A	WT-2, 215111	WT-2
2025-44-9	Kings	2025-44-9	Straight BNC, 735A	KTH-1000/KTH-2185	KTH-1000/KTH-2185
2026-17-9	Kings	2026-17-9	Right Angle BNC, 735A	KTH-1000/KTH-2185	KTH-1000/KTH-2185
242756	Amphenol	31-70238	Straight BNC, 735A	242776	CTL-15

RG-58/U PVC CABLE

Anixter No.	Vendor	Vendor No.	Term Type	Figure	Term Tool Anixter No.	Term Tool Vendor No.	Notes
BNC-21	TE Connectivity	BNC-21	H-C-C	A	215110	WT-2	Use die 215111
160328	Amphenol	31-5800	H-C-C	A	140497	CTL-1	50 ohms

RG-58 PLENUM CABLE

Anixter No.	Vendor	Vendor No.	Term Type	Figure	Term Tool Anixter No.	Term Tool Vendor No.	Notes
160328	Amphenol	31-5800	H-C-C	A	140497	CTL-1	50 ohms

THIN ETHERNET, PVC & PLENUM (BELDEN 9907 AND 89907 OR EQUAL)

Anixter No.	Vendor	Vendor No.	Term Type	Figure	Term Tool Anixter No.	Term Tool Vendor No.	Notes
160328	Amphenol	31-5800	H-C-C	A	140497	CTL-1	50 ohms
135802	Amphenol	31-320-1006	H-C-C	A	140497	CTL-1	50 ohms

Coax Connectors

BNC Panel-mount Jacks

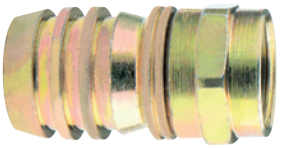
NEUTRIK

Anixter No.	Vendor No.	Description
NBB75FI	NBB75FI	Bulkhead mount, isolated feed-thru, nickel (shown above)
NBB75FG	NBB75FG	Bulkhead mount, grounded feed-thru, nickel
NBB75DFIB	NBB75DFIB	Recessed isolated feed-thru, black
NBB75DFGB	NBB75DFGB	Recessed grounded feed-thru, black

Universal F-connectors

CORNING GILBERT INC

One connector fits all RG-59 cables and one connector fits all RG-6 cables. Uses a 0.360 hex crimp.



Anixter No.	Vendor No.	Description
119011	GF59AHS/USA	Fits RG-59 cables
119012	GF6AHS/USA	Fits RG-6 cables

F-connectors for RG-6 Drop Cable

Anixter No.	Vendor	Vendor No.	Description	Braid Coverage
050080	Corning Gilbert	GF6AHS312	Cadmium plated	40% or less
103779	Corning Gilbert	GF6AHS322	Cadmium plated	40% to 60%
035325	Corning Gilbert	GF6AHS342	Cadmium plated	Quad 40/60%
041667	Corning Gilbert	GF6AHS357	Cadmium plated	Quad high braid
167032	Emerson	25-7180	Twist on	Gold irradiate

F-connectors for RG-11 Drop Cable, RG-179B/U

Anixter No.	Vendor No.	Vendor	Braid Coverage
109611	GF11AHS460	Corning Gilbert	Up to 90% has separate pin
060510	GF11AHS480	Corning Gilbert	Quad shield has separate pin
101462	GAF11AHS480	Corning Gilbert	Quad has integral pin
087204	F11QS	T&B	40% up to quad shield
049707	GF-1097-1	Corning Gilbert	For RG-179B/U

Coax Connectors

Plenum F- connectors

RG-59

Anixter No.	Vendor	Vendor No.	Braid Coverage
112601	Corning Gilbert	GF59AHP312	Greater than 78% braid and quad shield

RG-6

Anixter No.	Vendor	Vendor No.	Braid Coverage
086107	Corning Gilbert	GF6AHP312	Up to 78% braid
186250	Corning Gilbert	NS-5197-17	Has separate crimp ring
800257	T&B	PL56CS	-----
223875	T&B	PL56CH	Up to 78% braid

RG-11

Anixter No.	Vendor	Vendor No.	Braid Coverage
105403	T&B	PL11CS	-----

RG-11 PLENUM QUAD SHIELD

Anixter No.	Vendor	Vendor No.	Braid Coverage
101799	T&B	PL11QS	Quad shield
084705	Corning Gilbert	GF11AHP450	All
199066	Corning Gilbert	GF11300P-388	Quad, has separate crimp ring and contact

UltraRange Compression Connectors

CORNING GILBERT INC

High-performance compression connectors with a wide range of braided coax cable for RG-6, RG-11 and RG-59. One-piece design with 360° of contact with the coax cable.

F-CONNECTORS

Anixter No.	Vendor No.	Description
329606	GF-UR-6	For RG-6 PVC, 60% to quad shield
329608	GF-UR-59-HEC	For headend RG-59 PVC, 2-95% shield
336680	GF-UR-6-PL	For RG-6 plenum, 60% to quad shield
338875	GF-UR-59	For RG-59 PVC, 60% to quad shield
410468	GAF-UR-11-MH	For RG-11 PVC, 60% to quad shield
340476	GAF-UR-11-PL	For RG-11 plenum, 60% to quad shield

BNC CONNECTORS

Anixter No.	Vendor No.	Description
341427	GA-BNC-UR-6	For RG-6 PVC, 60% to quad shield
341428	GA-BNC-UR-59	For RG-59 PVC, 60% to quad shield
341429	GA-BNC-UR-59-HEC	For headend RG-59 PVC, 2-95% shield

Coax Connectors

UltraEase Compression Connectors

CORNING GILBERT INC

This series of compression connectors combines ease of installation with superior performance. UltraEase compression technology provides 360 degrees of contact to the cable, providing excellent RF shielding integrity and a complete seal to the cable jacket that locks out moisture.

F-CONNECTORS

Anixter No.	Vendor No.	Description
275710	GF-UE-59	For RG-59 coax cable - 60% to trishield, color band black
283589	GF-UE-59Q	For RG-59 quad shield coax cable, color band green
275711	GF-UE-6	For RG-6 coax cable - 60% to trishield, color band gold
275712	GF-UE-6Q	For RG-6 quad shield coax cable, color band silver
236249	GAF-UST-11	For RG-11 coax cable
236251	GAF-UST-11Q	For RG-11 quad shield coax cable

BNC CONNECTORS

Anixter No.	Vendor No.	Description
340503	GA-BNC-UE-59	For RG-59 60% to trishield coax cable, color band black
340504	GA-BNC-UE-59Q	For RG-59 quad shield coax cable, color band green
340505	GA-BNC-UE-6	For RG-6 60% to trishield coax cable, color band gold
340508	GA-BNC-UE-6Q	For RG-6 quad shield coax cable, color band silver

RCA CONNECTORS

Anixter No.	Vendor No.	Description
340499	GA-RCA-UE-59	For RG-59 60% to trishield, color band black
340500	GA-RCA-UE-59Q	For RG-59 quad shield coax cable, color band green
340501	GA-RCA-UE-6	For RG-6 60% to trishield coax cable, color band gold
340502	GA-RCA-UE-6Q	For RG-6 quad shield coax cable, color band silver

PREP AND COMPRESSION TOOLS

Anixter No.	Vendor No.	Description
236252	G-CPT-6590	Prep tool for RG-6 and RG-59
236254	GCATUNIVERSL-FX	Compression tool for RG-6 and RG-59
236253	G-CPT-1100	Prep tool for RG-11
284513	G-CAT-AS	Compression tool for RG-11

Coax Connectors

UltraSeal F-Connectors for Outdoors

CORNING GILBERT INC

UltraSeal F-connectors combine ease of installation with superior performance features. Connectors have 360-degree cable contact to lock out moisture. One-piece design.

Anixter No.	Vendor No.	Description
275710	GF-UE-59	For RG-59 coax cable - 60% to trishield, color band black
283589	GF-UE-59Q	For RG-59 quad shield coax cable, color band green
275711	GF-UE-6	For RG-6 coax cable - 60% to trishield, color band gold
275712	GF-UE-6Q	For RG-6 quad shield coax cable, color band silver
236249	GAF-UST-11	For RG-11 coax cable
236251	GAF-UST-11Q	For RG-11 quad shield coax cable
236252	G-CPT-6590	Prep tool for RG-6 and RG-59
236253	G-CPT-1100	Prep tool for RG-11
236254	GCATUNIVERSL-FX	Compression tool for RG-6 and RG-59
284513	G-CAT-AS	Compression tool for RG-11

Snap-N-Seal Compression Connectors

BELDEN

RG-6 ULTIMATE SNAP-N-SEAL

Anixter No.	Vendor No.	Description
340507	SNS1P6U	For RG-6 coax cable, 60% to quad shield, red sleeve

ULTIMATE SNAP-N-SEAL F series, 360°, one-piece compression connector for 60% braid, trishield and quad shield. Cable retention exceeds 40 lb. minimum with superb return loss of -30 dB to 1 GHz.

F-CONNECTORS

Anixter No.	Vendor No.	Description
340112	SNS1P59	For RG-59 coax cable, orange sleeve
340510	SNS1P59QS	For RG-59 quad shield coax cable, green sleeve
340828	SNS1P59HEC	For RG-59 95% shield coax cable, white sleeve
525343	SNS59HEC	For RG-59 coax cable, white sleeve
314669	SNS1P6	For RG-6, blue sleeve
340511	SNS1P6QS	For RG-6 quad shield coax cable, violet sleeve

LRC SNAP-N-SEAL F series, 360°, one-piece compression connector for RG-59, headend and RG-6 coax cable. Cable retention exceeds 40 lb. minimum with superb return loss of -30 dB to 1 GHz.

BNC CONNECTORS

Anixter No.	Vendor No.	Description
354191	SNS1P59BNC	For RG-59 coax cable, orange sleeve
354193	SNS1P6BNC	For RG-6 coax cable, blue sleeve
354194	SNS1P6QSBNC	For RG-6 quad shield coax cable, violet sleeve

LRC SNAP-N-SEAL BNC connectors are high-performance, 75 ohm, true 360° compression for RG-59, headend and RG-6 coax cable.

RCA CONNECTORS

Anixter No.	Vendor No.	Description
282326	SNS1P6RMBL	For RG-6, blue sleeve
282327	SNS1P6RMY	For RG-6, yellow sleeve
282328	SNS1P6RMW	For RG-6, white sleeve
282329	SNS1P6RMR	For RG-6, red sleeve
282330	SNS1P6RMG	For RG-6, green sleeve
282331	SNS1P6RMBK	For RG-6, black sleeve

SNAP-N-SEAL RCA series, 360°, one-piece compression connector for RG-6 coax cable. Cable retention exceeds 40 lb. minimum with superb return loss of -30 dB to 1 GHz.

Coax Connectors

Snap-N-Seal F-connectors

BELDEN

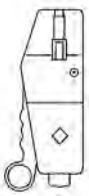
Snap-N-Seal connectors are environmentally sealed to protect drops from harsh environments. Through a unique 360° compression process, Snap-N-Seal connectors also offer the signal leakage protection required for today's systems.

1

2

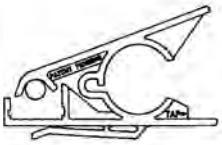
SNAP-N-SEAL F- MALE ENVIRONMENTALLY SEALED CONNECTORS

Anixter No.	Vendor No.	Figure	Description
183517	SNS59	2	For RG-59 coax cable
183515	SNS6	2	For RG-6 coax cable
270473	SNS6PLA	2	For RG-6 plenum coax cable
204987	SNS59QS	2	For RG-59 quad shield coax cable
182461	SNS6QS	2	For RG-6 quad shield coax cable
523856	SNS11AS	1	For RG-11 coax cable



A

B



C

TOOLS FOR SNAP-N-SEAL F-CONNECTORS

Anixter No.	Vendor No.	Figure	Description
525787	CST596	C	Strip tool for RG-59 and RG-6
215348	CST596711	C	Strip tool for RG-59, RG-6 and RG-11
183516	IT1000	A	Tool, strips and installs for RG-6 and RG-59
523849	L3011B	B	Tool, installs for RG-11

Coax Connectors

FS and DB Compression Connectors

BELDEN

APPLICATIONS

One-piece compression connectors, for solid center conductor coax and multi-piece connectors for stranded center conductor, mini RGB cables, which allow for quick and easy installations with fewer separate parts.

COMMERCIAL SERIES

Anixter No.	Vendor No.	Description
STARTERKIT	STARTERKIT	Commercial starter kit
SLMPSAKIT	SLMPSAKIT	Tech kit, compression and strip tools
CPLCCT-SLM	CPLCCT-SLM	Compression tool
CPLCCT-SS59/11	CPLCCT-SS59/11	Compression tool RG-11 "F"
CPLCCT-11BNC	CPLCCT-11BNC	Compression tool RG-11 "BNC"
PSA59/6	PSA59/6	Prep tool RG-59 and RG-6
PS11	PS11	Prep tool RG-11
PS59/6/RGB	PS59/6/RGB	Prep tool RG-59, RG-6 and mini RGB
FS59U	FS59U	RG-59 "F" connector
FS59BNCSL	FS59BNCSL	RG-59 "BNC" security connector
FS59BNCU	FS59BNCU	RG-59 "BNC" connector
FS59PL2	FS59PL2	RG-59 "F" plenum connector
FS59BNCPL2	FS59BNCPL2	RG-59 "BNC" plenum connector
FS6U	FS6U	RG-6 "F" connector
FS6BNCU	FS6BNCU	RG-6 "BNC" connector
FS6PL2	FS6PL2	RG-6 "F" plenum connector
FS6BNCPL2	FS6BNCPL2	RG-6 "BNC" plenum connector
FS15BNC	FS15BNC	Mini coax "BNC" 23 AWG solid CC
FSBNC15RGB	FSBNC15RGB	Mini coax "BNC" 23 AWG stranded CC
FS11V	FS11V	RG-11 coax "F" connector
FS11BNC	FS11BNC	RG-11 coax "BNC" connector

DOUBLE BUBBLE SERIES

Anixter No.	Vendor No.	Description
DBSTARTERKIT	DB STARTER KIT	DB starter kit
DBPSAKIT	DBPSAKIT	Tech kit compression and strip tool
CPLCRTC-B	CPLCRTC-B	DB compression tool
DB59U	DB59U	DB RG-59 "F" connector
DB59BNCSL	DB59BNCSL	DB RG-59 "BNC" security connector
DB59BNCBU	DB59BNCBU	DB RG-59 "BNC" connector 23 AWG pin
DB59BNCU	DB59BNCU	DB RG-59 "BNC" connector
DB59PL2/4	DB59PL2/4	DB RG-59 "F" plenum connector
DB59BNCPL2/4	DB59BNCPL2/4	DB RG-59 "BNC" plenum connector
DB6U	DB6U	DB RG-6 "F" connector
DB6BNCU	DB6BNCU	DB RG-6 "BNC" connector
DB6PL2	DB6PL2	DB RG-6 "F" plenum connector
DB6BNCPL2	DB6BNCPL2	DB RG-6 "BNC" plenum connector
DBDS3BNC	DBDS3BNC	DB 735 BNC connector
DB15BNCHD	DB15BNCHD	DB mini 59 "BNC HD" connector
DB59BNCHD	DB59BNCHD	DB RG-59 "BNC HD" connector
DB6BNCHD	DB6BNCHD	DB RG-6 "BNC HD" connector
CPLCRBC-A	CPLCRBC-A	Compression tool DB59BNCSL2-M
DB59BNCSL2-M	DB59BNCSL2-M	RG-59 BNC for Belden 8281 cable

Coax Connectors

Coax Connectors for LMR400 Coax Cable

CONNEX CONNECTOR CORPORATION

Anixter No.	Vendor No.	Description
283822	172102H243	N-type straight plug
283823	172102H243RP	N-type straight plug, reverse polarized
283824	122393	TNC-type straight plug
283825	122393RP	TNC-type straight plug, reverse polarized

LMR Connectors

TIMES MICROWAVE

LMR-240 CONNECTORS

Anixter No.	Vendor No.	Description
EZ-240-NMH-D	EZ-240-NMH-D	N male, crimp spring finger
EZ-240-TM	EZ-240-TM	TNC male, crimp spring finger
TC-240-NM	TC-240-NM	N male, crimp solder

LMR-400 CONNECTORS

Anixter No.	Vendor No.	Description
EZ-400-NMH	EZ-400-NMH-D	N male, crimp spring finger
EZ-400-TM	EZ-400-TM	TNC male, crimp spring finger
TC-400-NM	TC-400-NM	N male, crimp solder
TC-400-NMH	TC-400-NMH	N male, crimp solder hex
TC-400-TM	TC-400-TM	TNC male, crimp

LMR-600 CONNECTORS

Anixter No.	Vendor No.	Description
EZ-600-NMC-2	EZ-600-NMC-2	N male, crimp spring finger
EZ-600-NMH-D	EZ-600-NMH-D	N male, crimp spring finger
TC-600-NMC	TC-600-NMC	N male, crimp solder
TC-600-NMH	TC-600-NMH	N Male, crimp solder hex

Coax Connectors

Coax Cable Strippers

IDEAL INDUSTRIES

The Ideal cable stripper has a slide adjustment to accommodate RG-58, RG-59, RG-59/62, RG-6, RG-8, Belden 8281, Thinnet plenum and twinaxial cable. Two- or three-level strips are available with interchangeable blade cassettes. These blades also can be adjusted individually. Can be used on most standard coaxial cable.

Anixter No.	Vendor No.	Description
150573	45-520	Stripper - three-step for 0.240 braid and dielectric for crimp BNC/TNC connectors
150575	45-522	Replacement three-level blade for Part No. 150573 stripper
150572	45-521	Stripper - 3-step for 0.328 and 0.109 (Thinnet)
039358	45-163	1/8 in. - 7/32 in. OD cable stripper, blue
095921	45-162	Up to 1/8 in. OD cable stripper, gray
103276	45-164	1/4 in. to 9/16 in. cable stripper, blue for RG-8/RG-11
038017	45-165	3/16 in. to 5/16 in. cable stripper, black for RG-59, UTP cable

Deluxe Crimpmaster Coax Crimping Kit

IDEAL INDUSTRIES

Includes one Crimpmaster Crimp Tool frame, one coaxial stripper, one replacement coaxial cassette, one RG-58 and RG-59/62 die set, one RG-59/8281 die set, one RG-58 and RG-174 die set, one RG-8/11 Ethernet die set, one RG-58 and RG-59 plenum die set and one RG-58 round TE Connectivity/AMP Thinnet die set in a case with foam cut-out interior.

Anixter No.	Vendor No.
150569	33-201

F-connector Termination Kit

IDEAL INDUSTRIES

Includes one Crimpmaster Series crimp tool, one coaxial cable stripper and RG-59 and RG-6 coaxial cable captive ring connectors (20 each) in a blow-molded case with foam cut-out interior.

Anixter No.	Vendor No.
330142	33-625

Coax Connectors

Hex Crimp Tools for F-connectors

CABLE PREP

Each tool is complete without the inconvenience of changing the jaws.

Anixter No.	Vendor No.	Hex Size Major	Minor	Contact	Crimps
043364	HCT-211	0.475	-----	0.096	RG-11
095946	HCT-986	0.360	0.324	-----	RG-59 - RG-59 quad - RG-6 and RG-6 quad
084468	HCT-611	0.410	0.324	-----	RG-59 - RG-6 - RG-11 - RG-6 quad
036525	HCT-659	0.324	0.262	-----	RG-59 - RG-6
042357	HCT-660	0.384	0.324	-----	RG-6 - RG-6 quad - RG-11 - RG-213
119081	HCT-USA	0.360	-----	-----	RG-6 - RG-59 universal
213700	HCT-231	0.475	0.262	0.108	RG-8 - RG-223
137498	HCT-480	0.475	0.108	-----	RG-8 - RG-11 - RG-213 - RG-214

CABLE STRIPPER

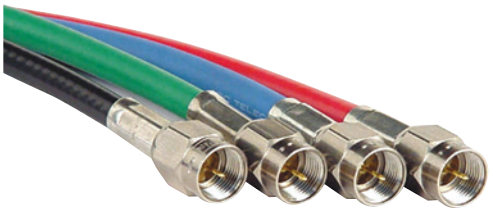
Anixter No.	Vendor No.	Description
130887	CPT-6590	Cable stripper for RG-6 and RG-59

Video Connectors

TE CONNECTIVITY

APPLICATIONS

F-connectors for precision video coaxial cable.



TE CABLE-MOUNT, CRIMP

Anixter No.	Description
CF-1	Compatible with 1505A, 734
CF-5	Compatible with 1187A
CF-8	Compatible with 1694A
CF-13	Compatible with 1855A, 1865A

Coax Connectors

Speakon Connectors

NEUTRIK

APPLICATIONS

Speaker connectors

NL CABLE-MOUNT SERIES

Anixter No.	Vendor No.	Description
NL2FC	NL2FC	2 pole (shown above)
NL4FC	NL4FC	4 pole
NL4FX	NL4FX	SPX 4 pole
NL4FRX	NL4FRX	SPX 4 pole - right angle
NL4TFX	NL4TEX	STX 4 pole - nickel
NL4TFX-BAG	NL4FTX-BAG	STX 4 pole - black
NL4MMX	NL4MMX	4 pole adapter - double locking, cable to cable
NL8FC	NL8FC	8 pole

NL PANEL-MOUNT SERIES

Anixter No.	Vendor No.	Description
NL4MP	NL4MP	4 pole - square flange, solder (shown above)
NL4MP-UC	NL4MP-UC	4 pole - square flange, upper current
NLT4MP	NLT4MP	STX 4 pole - square flange, nickel
NLT4MP-BAG	NLT4MP-BAG	STX 4 pole - square flange, black
NL8MPR	NL8MPR	8 pole - NLT style, nickel
NL8MPR-BAG	NL8MPR-BAG	8 pole - NLT style, black

XX SERIES

Anixter No.	Vendor No.	Description
NC3FXX	NC3FXX	3 pin, female
NC3MXX	NC3MXX	3 pin, male
NC3FXX-BAG	NC3FXX-BAG	3 pin, female (shown above)
NC3MXX-BAG	NC3MXX-BAG	3 pin, male
NC3FXX-B	NC3FXX-B	3 pin, female
NC3MXX-B	NC3MXX-B	3 pin, male

Coax Connectors

Connectors and Adapters - Video

APPLICATIONS

BNC connectors

KINGS 75 OHM CABLE MOUNT, CRIMP

Anixter No.	Description
2065-2-9	1505A, 1506A, 9259
2065-7-9	8221, 8241, 8263
2065-8-9	7731A, 8213
2065-10-9	1694A, 1695A, 7710A, 7711A, 7712A, 7713A
2065-11-9	1167B, 1418B, 1855B, 1865B, 8218
2065-29-9	1279P, 1279R
2065-28-9	179DT, 9221

ADC 75 OHM CABLE MOUNT, CRIMP

Anixter No.	Description
BNC-1-N	For cable 734A, 1505A, 1506A, 9259
BNC-2-N	For cable 8241, RG-59, 9209, 8279
BNC-4-N	For cable 8281
BNC-6-N	For plenum cable RG-59, Belden 643948, 6439C8, 649948 and Coleman 99969
BNC-8-N	For cable 1694A, 7710A, 7711A, 7712A, 7713A
BNC-12	For cable 1865, 1167B, 1418B
BNC-13-N	For cable 1855A
BNC-16-N	For cable 8216
BNC-25-N	For cable 7731A
BNC-31-N	For cable 179DT, 1520A

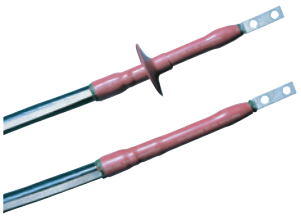
Medium-voltage Terminations and Splices

TE Connectivity Termination Kits (Heat Applied)

TE CONNECTIVITY

APPLICATIONS

For use in the termination of medium-voltage power cables in either indoor or outdoor applications.



5/8 KV INDOOR/OUTDOOR

Anixter No.	Vendor No.	Conductor Size (Min.-Max.)	Insulation Diameter	Jacket O.D. Max.
189652	HVT-Z-80-G/SG	#6 - #2 AWG	0.35 - 0.60	0.95
192791	HVT-Z-81-G/SG	#1 - 4/0 AWG	0.60 - 0.95	1.20
364673	HVT-Z-82-G/SG	250 - 500 kcmil	0.80 - 1.25	1.50
376314	HVT-Z-83-G/SG	600 - 1750 kcmil	1.10 - 1.75	2.10

15 KV INDOOR

Anixter No.	Vendor No.	Conductor Size (Min.-Max.)	Insulation Diameter	Jacket O.D. Max.
082362	HVT-Z-151-G	#4 - 1/0 AWG	0.60 - 0.95	1.20
283443	HVT-Z-152-G	2/0 - 350 kcmil	0.80 - 1.25	1.50
082360	HVT-Z-153-G	400 - 1000 kcmil	1.10 - 1.65	2.10

15 KV OUTDOOR

Anixter No.	Vendor No.	Conductor Size (Min.-Max.)	Insulation Diameter	Jacket O.D. Max.
189657	HVT-Z-151-SG	#4 - 1/0 AWG	0.60 - 0.95	1.20
138237	HVT-Z-152-SG	2/0 - 350 kcmil	0.80 - 1.25	1.50
138236	HVT-Z-153-SG	400 - 1000 kcmil	1.10 - 1.65	2.10

25/35 KV INDOOR

Anixter No.	Vendor No.	Conductor Size 25 kV (Min.-Max.)	Conductor Size 35 kV (Min.-Max.)	Insulation Diameter	Jacket O.D. Max.
378034	HVT-Z-252/352-G	#2AWG - 250 kcmil	#1 - 1/0 AWG	0.80 - 1.25	1.50
378038	HVT-Z-253/353-G	300 - 750 kcmil	2 AWG - 500 kcmil	1.10 - 1.75	2.10
378045	HVT-Z-254/354-G	1000 - 2000 kcmil	750 - 1750 kcmil	1.60 - 2.45	2.75

25/35 KV OUTDOOR

Anixter No.	Vendor No.	Conductor Size 25 kV (Min.-Max.)	Conductor Size 35 kV (Min.-Max.)	Insulation Diameter	Jacket O.D. Max.
378036	HVT-Z-252/352SG	#2AWG - 250 kcmil	#1 - 1/0 AWG	0.80 - 1.25	1.50
378041	HVT-Z-253/353SG	300 - 750 kcmil	2 AWG - 500 kcmil	1.10 - 1.75	2.10
378046	HVT-Z-254/354SG	1000 - 2000 kcmil	750 - 1750 kcmil	1.60 - 2.45	2.75

MOD KITS THREE-CONDUCTOR MEDIUM-VOLTAGE CABLE

Anixter No.	Vendor No.
082374	MOD-3B-HVT
082375	MOD-3A-HVT

Medium-voltage Terminations and Splices

TE Connectivity Termination Kits (Cold Applied)

TE CONNECTIVITY

APPLICATIONS

For use in the termination of medium-voltage power cables in either indoor or outdoor applications.

5/8 KV INDOOR/OUTDOOR

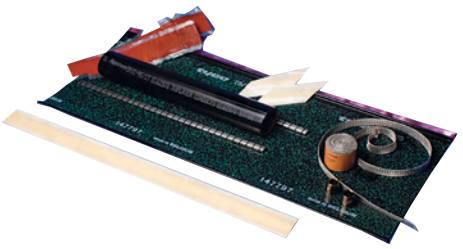
Anixter No.	Vendor No.	Conductor Size (Min.-Max.)	Insulation Diameter
283445	TFT-150R-G	#2 - 3/0 AWG	0.53 - 0.80
269744	TFT-151R-G	2/0 - 250 kcmil	0.64 - 1.09
283447	TFT-152R-G	350 - 500 kcmil	0.85 - 1.45
363711	TFT-153R-G	500 - 750 kcmil	1.06 - 1.70

15 KV INDOOR/OUTDOOR

Anixter No.	Vendor No.	Conductor Size (Min.-Max.)	Insulation Diameter
363712	TFT-151R-SG	#2 - 250 kcmil	0.64 - 1.09
363713	TFT-152R-SG	4/0 - 500 kcmil	0.85 - 1.45
363714	TFT-153R-SG	500 - 750 kcmil	1.06 - 1.70

TE Connectivity Splices (Heat Applied)

TE CONNECTIVITY



APPLICATIONS

TE Connectivity heat-shrinkable shielded power cable splices are pre-egineered to offer a compact low-profile installation with a minimum diameter build-up.
Kit contains a solderless gounding kit, consisting of a ground clamp, a ground braid and a shielding mesh.

5/8 KV SPLICE

Anixter No.	Vendor No.	Conductor Size (Min.-Max.)	Insulation Diameter	Jacket O.D. Max.
110599	HVS-821S	#6 - #2 AWG	0.35 - 0.65	0.80
153879	HVS-822S	#1 - 4/0 AWG	0.55 - 0.90	1.15
131495	HVS-823S	250 - 350 kcmil	0.80 - 1.25	1.80
376322	HVS-824S	500 - 750 kcmil	1.00 - 1.50	2.30

15 KV SPLICE

Anixter No.	Vendor No.	Conductor Size (Min.-Max.)	Insulation Diameter	Jacket O.D. Max.
415798	HVS-C-1521S	#2 - 2/0 AWG	0.65 - 0.95	1.20
415800	HVS-C-1522S	3/0 - 400 kcmil	0.85 - 1.30	1.65
415801	HVS-C-1523S	500 - 750 kcmil	1.10 - 1.55	1.90

Medium-voltage Terminations and Splices

TE Connectivity Splices (Cold Applied)

TE CONNECTIVITY

APPLICATIONS

TE Connectivity Cold Applied splices are an "All in One" joint for 15 kV-35 kV cables. "All in One" design is easy to install with minimal steps and short installation time.

15 KV SPLICE

Anixter No.	Vendor No.	Conductor Size (Min.-Max.)	Insulation Diameter	Jacket O.D. Max.
376326	CSJA-1521	#2 - 350 kcmil	0.69 - 1.20	1.50
376325	CSJA-1522	4/0 - 750 kcmil	0.87 - 1.40	1.80
378051	CSJA-1523	350 - 1000 kcmil	1.03 - 1.58	2.05
376328	CSJA-1524	750 - 1250 kcmil	1.28 - 2.05	2.60

35 KV SPLICE

Anixter No.	Vendor No.	Conductor Size (Min.-Max.)	Insulation Diameter	Jacket O.D. Max.
378049	CSJA-3523	1/0 - 350 kcmil	1.03 - 1.49	2.05
378050	CSJA-3524	350 - 1000 kcmil	1.36 - 2.05	2.60

3M QTIII Termination Kits (Cold Applied)

3M

APPLICATIONS

For use in termination of medium-voltage power cables in either indoor or outdoor applications. Each kit makes three terminations.

5 KV INDOOR

Anixter No.	Vendor No.	Conductor Size (Min.-Max.)	Insulation Diameter
193228	7621-T-95	#2 - 3/0 AWG	0.44 - 0.89
193229	7622-T-110	4/0 - 400 kcmil	0.64 - 1.08
193231	7624-T-110	500 - 750 kcmil	0.83 - 1.53

5 KV OUTDOOR

Anixter No.	Vendor No.	Conductor Size (Min.-Max.)	Insulation Diameter
193218	7621-S-2	#2 - 3/0 AWG	0.44 - 0.89
249447	7622-S-2	4/0 - 400 kcmil	0.64 - 1.08
193220	7693-S-4	300 - 500 kcmil	0.72 - 1.29
193221	7694-S-4	500 - 750 kcmil	0.83 - 1.53

15 KV INDOOR

Anixter No.	Vendor No.	Conductor Size (Min.-Max.)	Insulation Diameter
193229	7622-T-110	4/0 - 400 kcmil	0.64 - 1.08
193231	7624-T-110	500 - 750 kcmil	0.83 - 1.53
195927	7625-T-110	500 - 1000 kcmil	1.05 - 1.80

15 KV OUTDOOR

Anixter No.	Vendor No.	Conductor Size (Min.-Max.)	Insulation Diameter
249477	5501-CI-1/0	#2 - 4/0 AWG	0.64 - 1.08
193220	7693-S-4	300 - 500 kcmil	0.72 - 1.29
193221	7694-S-4	500 - 750 kcmil	0.83 - 1.53
195926	7695-S-4	500 - 1000 kcmil	1.05 - 1.80

Medium-voltage Terminations and Splices

3M Medium-voltage Splice Kits

3M

APPLICATIONS

3M splice kits are used for splicing shielded medium-voltage cables. Each kit contains all materials except connectors and optional grounding strap required to construct three single-conductor splices on Tape Shield, Wire Shield or Unishield cables. Each kit makes three splices.

5 KV SHIELDED

Anixter No.	Vendor No.	Conductor Range Copper	Conductor Range Aluminum
107909	5551	6 - 4/0 AWG	6 - 30/ AWG
249464	5552	4/0 - 500 kcmil	4/0 - 400 kcmil
249466	5553	500 - 1000 kcmil	500 - 1000 kcmil

15 KV SHIELDED

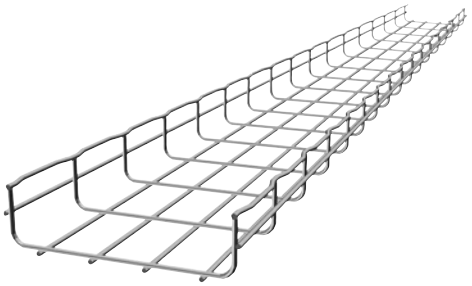
Anixter No.	Vendor No.	Conductor Range
416395	5513A	2 - 4/0 AWG
416396	5514A	4/0 - 350 kcmil
416397	5515A	350 - 750 kcmil

Wire Basket

Straight Sections

CABLOFIL

Cablofil is a global leader in innovative cable management, with over 80,000 miles of Cablofil cable tray installed worldwide. Cablofil cable tray is the revolutionary system constructed of precision-engineered, high-quality, welded steel wire. The Cablofil system includes everything to make installation effortless, and it adapts easily as your cable management needs grow and change. The FAS support system is exclusively designed with a versatile range of profiles and brackets. This innovative system dramatically reduces installation time by utilizing a simple one-step process that requires no screws, bolts or special tools. T-welding the lateral wires to the top edge wire creates a "Safe-T-Edge" which minimizes the risk of fraying cables and also protects installers from sharp wire ends. The optimized wire size design makes Cablofil cable tray durable, and extremely strong.



The Cablofil difference:

- Original inventor of wire cable tray
- Global leader in wire cable management
- FAS support system
- T-welded "Safe-T-Edge" top wire
- Optimized wire design

CABLE TRAY

Anixter No.	Vendor No.	Description
220299	ZF30/50EZ	10 ft. L x 2 in. W x 1 in. D, tray
220284	CF30/100EZ	10 ft. L x 4 in. W x 1 in. D, tray
220286	CF30/150EZ	10 ft. L x 6 in. W x 1 in. D, tray
252779	CF30/200EZ	10 ft. L x 8 in. W x 1 in. D, tray
220297	CF30/300EZ	10 ft. L x 12 in. W x 1 in. D, tray
199265	CF54/50EZ	10 ft. L x 2 in. W x 2 in. D, tray
199268	CF54/100EZ	10 ft. L x 4 in. W x 2 in. D, tray
197632	CF54/150EZ	10 ft. L x 6 in. W x 2 in. D, tray
199273	CF54/200EZ	10 ft. L x 8 in. W x 2 in. D, tray
197633	CF54/300EZ	10 ft. L x 12 in. W x 2 in. D, tray
198369	CF54/450EZ	10 ft. L x 18 in. W x 2 in. D, tray
198370	CF54/500EZ	10 ft. L x 20 in. W x 2 in. D, tray
197634	CF54/600EZ	10 ft. L x 24 in. W x 2 in. D, tray
332137	CF105/100EZ	10 ft. L x 4 in. W x 4 in. D, tray
199277	CF105/200EZ	10 ft. L x 8 in. W x 4 in. D, tray
199284	CF105/300EZ	10 ft. L x 12 in. W x 4 in. D, tray
213378	CF105/450EZ	10 ft. L x 18 in. W x 4 in. D, tray
272037	CF105/500EZ	10 ft. L x 20 in. W x 4 in. D, tray
220316	CF105/600EZ	10 ft. L x 24 in. W x 4 in. D, tray
332138	CF150/300EZ	10 ft. L x 12 in. W x 6 in. D, tray
234350	CF150/450EZ	10 ft. L x 18 in. W x 4 in. D, tray
234354	CF150/500EZ	10 ft. L x 20 in. W x 4 in. D, tray
332139	ZF150/600	10 ft. L x 24 in. W x 6 in. D, tray

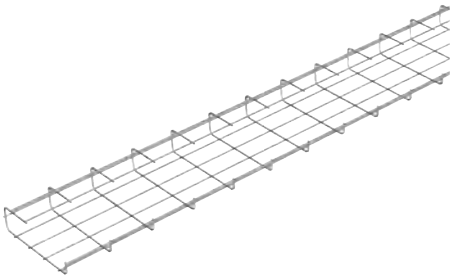
Available in 1 in., 2 in., 4 in. and 6 in. depths. Available in widths ranging from 2 in. to 24 in. Standard 10 in. lengths. Available in Electro Zinc (EZ), Hot-Dipped Galvanized (GC), 316L Stainless Steel (IN), and durable powder coat colors: Black (BL), Custom-painted color (PE). T-welded design creates a "Safe-T-Edge" which is easy on installers and cables.

Wire Basket

(continued) Straight Sections

G-TRAY

Available in 2 in. depth and 4 in., 6 in. and 8 in. widths. Cablofil G-Tray features a uniquely engineered shape that increases mounting and installation options beyond standard cable tray and adds mechanical protection in areas with risk of cable damage. Ideal for tight-fitting places, mounts directly to walls, ceilings and web joist, under other trays, and underneath conveyors, using specially designed Cablofil washers and bolts.

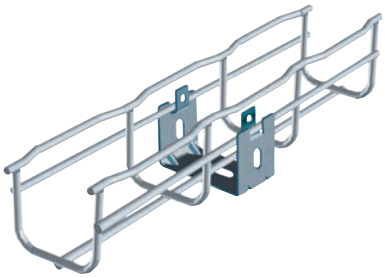


Anixter No.	Vendor No.	Description
281384	CFG50/100EZ	10 ft. L x 4 in. W x 2 in. D, G tray
332140	CFG50/150EZ	10 ft. L x 6 in. W x 2 in. D, G tray
281385	CFG50/200EZ	10 ft. L x 8 in. W x 2 in. D, G tray

Wire Tray

CABLOFIL

Cablofil cable tray is ideal for organizing control cabling, tubes, pipes or electrical wiring anywhere in an industrial environment. Cablofil's hot-dipped galvanized and stainless steel cable trays are a perfect alternative to heavy, closed-in systems in industrial environments. The open wire design helps in producing less bacteria and creating greater accessibility, providing an easier and safer cable management system.



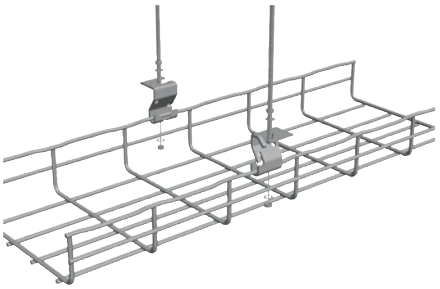
Anixter No.	Vendor No.	Description
199265	CF54/50EZ	10 ft. L x 2 in. W x 2 in. D, tray
220377	EDRNEZ	Fast splice EDRN 50/pk. - special assembly tool (EDRNTOOL) is included in every bag
250518	CAT30/41PG	Snap-in wall hanger support, finish: pre-galvanized
250519	UC50PG	Cable tray standoff, machine-mounting support, finish: pre-galvanized
213725	C50EZ	Wall-mount attachment, finish: Electro Zinc
220355	CVN50PG	2 in. W cover
250520	CVN100PG	4 in. W cover
199268	CF54/100EZ	10 ft. L x 4 in. W x 2 in. D, tray
332194	CCLMP52EZ	Cable clamp 1.55 in. - 2.05 in.

Wire Basket

Standard Support Systems

CABLOFIL

Look to Cablofil for the most complete line of support hardware for walls, ceilings, floors, and cabinets. Many brackets feature our patented FAS support system, securing Cablofil cable tray without nuts and bolts.



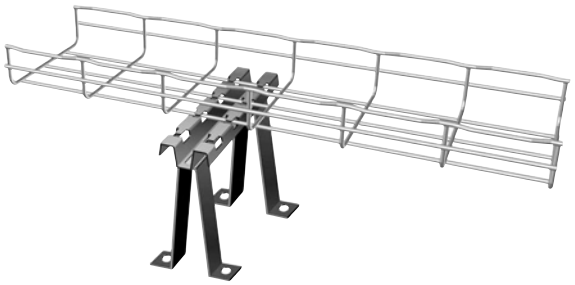
FAS CENTER HANGER

Attaches to round or square access floor posts. Includes clamp, preassembled FAS Profile, mounting bolts and nuts. Will support up to 12 in. Cablofil wire cable tray. Electro Zinc coated for superior corrosion resistance.

Anixter No.	Vendor No.	Description
213732	FASPCH300PG	FAS center hanger, 12 in. L, one/pk., finish: pre-galvanized
213380	FASPCH450PG	FAS center hanger, 18 in. L, one/pk., finish: pre-galvanized
220761	FASPCH600PG	FAS center hanger, 24 in. L, one/pk., finish: pre-galvanized

UFS 150

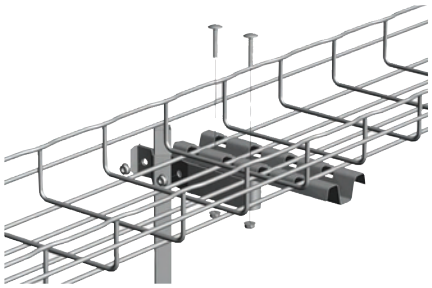
Use a single support for tray widths up to 12 in. Use two for tray widths up to 24 in. Patented FAS style attachment secures tray without nuts and bolts.



Anixter No.	Vendor No.	Description
213374	UFS150/200PG	6 in. under floor support, finish: pre-galvanized

UFCN

Attaches to round or square access floor posts. Use with FAS Profile for support of up to 12 in. Cablofil wire cable tray. Each UFCN comes with four mounting bolts and nuts. Electro Zinc coated for superior corrosion resistance.



Anixter No.	Vendor No.	Description
248721	UFCN150PG	6 in. under floor support clamp, finish: pre-galvanized
332185	UFCN200PG	8 in. under floor support clamp, finish: pre-galvanized
332186	UFCN300PG	12 in. under floor support clamp, finish: pre-galvanized

AS-TRAPEZE HANGING CLIP

Anixter No.	Vendor No.	Description
197643	ASPG	Trapeze clip, 50/pk., finish: pre-galvanized

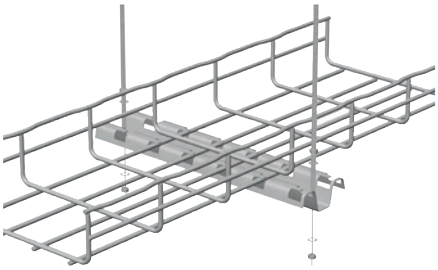
For trapeze-hung installations. Use with 1/4 in., 1/2 in. or 3/8 in. threaded rod. Cablofil tray can be detached on one side to easily add cables.

Wire Basket

(continued) Standard Support Systems

AS PROFILE

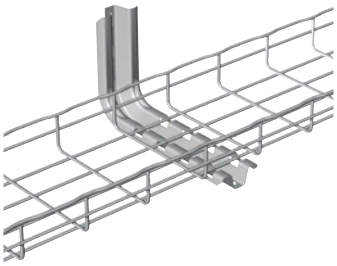
For trapeze-hung installations, or use on walls, floors and cabinets. Patented FAS style attachments holds cable tray secure without nuts and bolts. For trapeze hung installations, use 4 in. longer profile than tray width. Use with 1/4 in. rod only.



Anixter No.	Vendor No.	Description
198645	FASP200PG	FAS profile 8 in. L, finish: pre-galvanized
213731	FASP300PG	FAS profile 12 in. L, finish: pre-galvanized
199345	FASP400PG	FAS profile 16 in. L, finish: pre-galvanized
219573	FASP500PG	FAS profile 20 in. L
220739	FASP1000PG	FAS profile 40 in. L

FAS L BRACKET

For installation onto walls and attachments to under floor pedestals. Patented FAS style attachment holds cable tray secure without nuts and bolts.

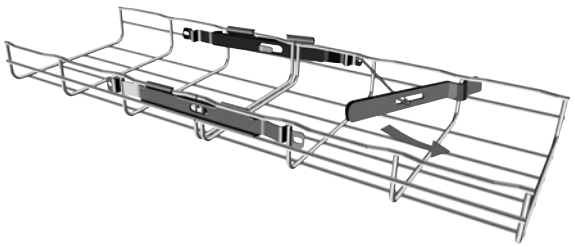


Anixter No.	Vendor No.	Description
208965	FASL100PG	FAS L bracket 4 in. L, finish: pre-galvanized
199340	FASL200PG	FAS L bracket 8 in. L, finish: pre-galvanized
199342	FASL300PG	FAS L bracket 12 in. L, finish: pre-galvanized

Tray Splicing

CABLOFIL

Cablofil offers a number of splices for Cablofil cable tray to fill any installation demand. All of the splice options are designed with one goal to make installation easy. Some of their splices require no tools for installation. Yet each option offers a durable, strong splice that has been tested and proven in installations around the world. The EDRN fast splice is the strongest and fastest splice.



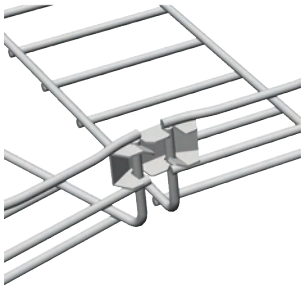
EDRN QUICK SPLICE

Only two splices are needed to join Cablofil cable tray widths up to 18 in. Use two splices on sides and one or two on the bottom for 24 in. tray. Special assembly tool is included in every bag of splices.

Anixter No.	Vendor No.	Description
220377	EDRNEZ	Fast splice EDRN 50/pk. - special assembly tool (EDRNTOOL) is included in every bag
220708	EZT90EZ	Tee or 90° kit 1/pk.
220794	SWKEZ	Splice washer kit 50/pk.
197639	ED275EZ	Splice bar 50/pk.
197641	CE25EZ	1 in. washer 50/pk.
197642	CE30EZ	1 1/2 in. washer 50/pk.
197640	EZBN1/4EZ	1/4 in. nut and bolt 50/pk.

FASLOCK SPLICE

FASLOCK is the easiest and fastest way to create sweeps and bends. Use the FASLOCK S for 4 in. to 8 in. widths and FASLOCK XL for widths 12 in. to 24 in. Secure tray sweeps by bending built-in locking tabs with pliers. Its simple design makes installations a snap.



Anixter No.	Vendor No.	Description
332191	FASLOCK SPG	Use FASLOCK S for CF54/100, 150, 200, 300, CF105/100, 150, 200
281386	FASLOCK XLPG	Use FASLOCK XL for all other larger tray sizes

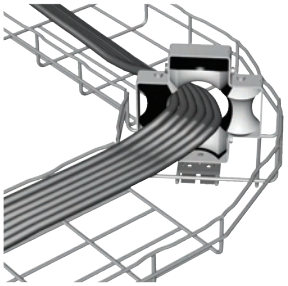
Wire Basket

Tray Accessories

CABLOFIL

FAS ROLLER

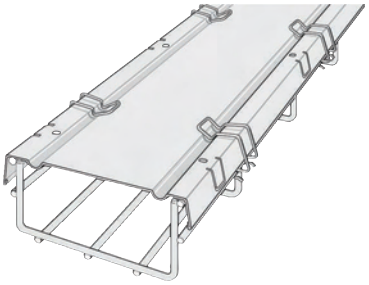
Use FAS Roller to eliminate the labor involved in pulling cable. Easy-open gate allows full access to FAS Roller. Unique 4-roller design prevents cable snagging. Bi-color rollers show roller turn, which prevents burning the cable while being pulled. Multifix poly swivel base attaches directly to Cablofil cable tray without tools. FAS Roller can also be attached with bolts or handy clamp provided in kit. Use FAS Roller as a permanent part of a tray installation in pathways or use on the next project. Sold in sets of six and includes a handy carrying case.



Anixter No.	Vendor No.	Description
213743	FASROLLER	6/pk., includes carrying case

CABLOFIL CABLE TRAY COVERS

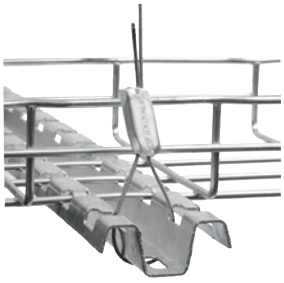
Cover eliminates dirt and dust build-up on cable. Built-in tabs attach cover to tray without bolts. Field fabricate the cover to fit changes in levels.
Cover kits are 10 feet in length.



Anixter No.	Vendor No.	Description
220355	CVN50PG	2 in. W cover
220346	CVN150PG	6 in. W cover
220351	CVN300PG	12 in. W cover

GRIPPLE

Install trapeze wire cable tray runs faster than ever with the Gripple Wire Cable Hanging Support. Use Gripple to hang FAS Profile for trapeze-hanging any width cable tray. Gripple comes with 100-pound to 200-pound, 10-foot cables. Comes in a Loop, Stud or Toggle end.



Anixter No.	Vendor No.	Description
281401	GRPL0210L	100 lb. Loop 10/pk.
281403	GRPL0210S	100 lb. Stud 10/pk.
281405	GRPL0210T	100 lb. Toggle 10/pk.
332192	GRPLY0210460	100 lb. Y Karabina 10/pk.

Wire Basket

FASTRUT CONNECTOR

This connector will attach any size wire cable tray to channel framing without any tools. Simply place the FASTRUT connector in position and snap in place with your thumb. FASTRUT is great for those hard-to-reach areas and tight spots.

Anixter No.	Vendor No.	Description
281408	FS41DC	FASTRUT connector 50/pk.

ADDITIONAL ACCESSORIES

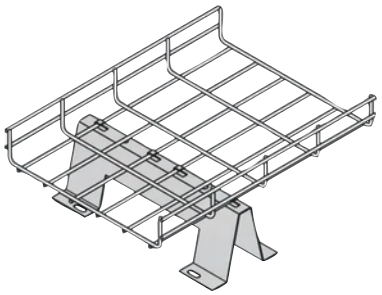
Anixter No.	Vendor No.	Description
197644	COUPFIL	Bolt cutter
220320	COT54PG	2 in. divider strip
220318	COT150PG	6 in. divider strip
220767	GTA2-2AL	Grounding lug
198642	DROPOUTPG	Cable dropout
215963	CABLEXIT100PG	Cable exit
198646	EZ JB5/16EZ	J-bolt
324078	GNDSB	Split bolt grounding lug, accommodates gauges AWG 4 -14 grounding wires

Wire Basket

Wire Basket Cable Tray

COOPER B-LINE

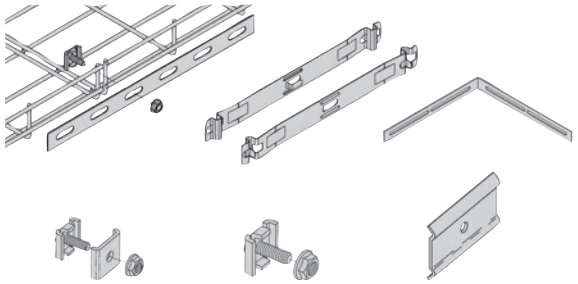
Cooper B-Line's wire basket cable tray system is designed for cable support in customer premise environments. B-Line's wire basket combines support, strength, lightweight construction, cable fill depth, and unmatched adaptability to site conditions, making wire basket a fast and economical system to install. B-Line offers a heavy-duty zinc (silver SC2) coating and strong, straight top wire design. Length: 118 inches.



STRAIGHT SECTIONS

Anixter No.	Vendor No.	Description
245162	WB202	2 in. W x 2 in. D wire basket cable tray
245163	WB204	4 in. W x 2 in. D wire basket cable tray
245164	WB206	Wire basket section, 6 in. W x 2 in. D x 118 in. L
245165	WB208	8 in. W x 2 in. D wire basket cable tray
245166	WB212	Wire basket section, 12 in. W x 2 in. D x 118 in. L
245167	WB218	18 in. W x 2 in. D wire basket cable tray
332085	WB221	21 in. W x 2 in. D wire basket cable tray
245168	WB224	24 in. W x 2 in. D wire basket cable tray
272044	WB408	8 in. W x 4 in. D wire basket cable tray
332086	WB412	Wire basket section, 12 in. W x 4 in. D x 118 in. L
278825	WB418	18 in. W x 4 in. D wire basket cable tray
332087	WB421	21 in. W x 4 in. D wire basket cable tray
332088	WB424	24 in. W x 4 in. D wire basket cable tray
332089	WB612	Wire basket section, 12 in. W x 6 in. D x 118 in. L
332090	WB618	18 in. W x 6 in. D wire basket cable tray
332091	WB620	Wire basket section, 20 in. W x 6 in. D x 118 in. L
332092	WB624	24 in. W x 6 in. D wire basket cable tray
332093	WB12SB	Splice bars for 200/400 Series wire basket

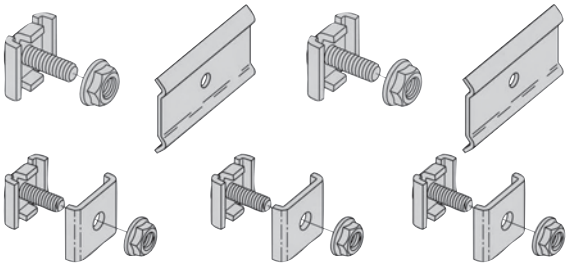
WIRE BASKET SPLICES



Anixter No.	Vendor No.	Description
245169	WB4CA	Zinc-plated connector assembly
332099	WB4CP	Zinc-plated clamp assembly
332101	WB4SP	Splice plate (hardware not included)
332093	WB12SB	Splice bars for 200/400 Series wire basket
328576	WB9TB	Tee bar
245171	WBTLC	Tab-lock connector

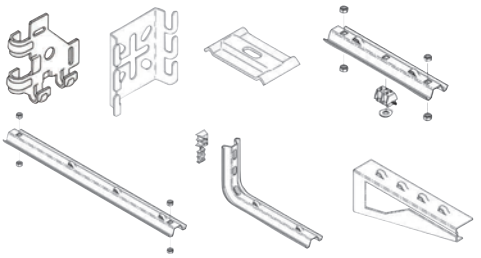
Wire Basket

WIRE BASKET SPLICE KITS



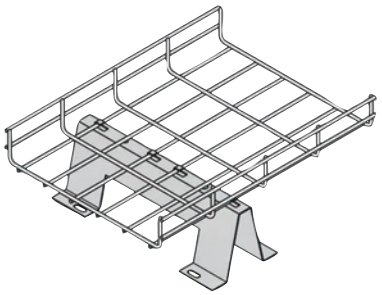
Anixter No.	Vendor No.	Description
332096	WB43SK	Splice plate kits for WB200 Series wire basket
332097	WB44SK	Splice plate kits for WB400 and WB600 Series wire basket in 8 in. to 12 in. widths
332098	WB45SK	Splice plate kits for WB400 and WB600 Series wire basket in 18 in. to 24 in. widths

WIRE BASKET SUPPORTS



Anixter No.	Vendor No.	Description
332102	WB4WB	Wall bracket and box-mount plate
245173	WB4HD	Hold-down plate
332109	WB5308	Click hanger for center hanger/trapeze kit for 8 in. wide wire basket
332110	WB5312	Click hanger for center hanger/trapeze kit for 12 in. wide wire basket
278827	WB5318	Click hanger trapeze kits for 18 in. wide wire basket
332111	WB5324	Click hanger trapeze kits for 20 in., 21 in. and 24 in. wide wire basket
332103	WB506CB	Click brackets for 4 in. wide wire basket
332104	WB508CB	Click brackets for 6 in. wide wire basket
332105	WB510CB	Click brackets for 8 in. wide wire basket
328578	WB514CB	Click brackets for 12 in. wide wire basket
332106	WB5118	Reinforced click bracket for 18 in. wire basket
332108	WB5124	Reinforced click bracket for 20 in., 21 in. and 24 in. wide wire basket
333315	WB46H	Flip Clip trapeze hanger
328577	WB2GC	Grounding clamp

WIRE BASKET UNDER FLOOR STANDS



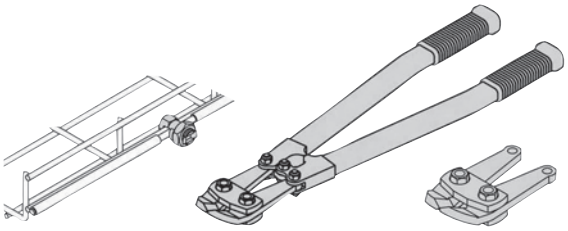
Anixter No.	Vendor No.	Description
287079	WB31218UF	3 in. elevation by 12 in. wide
332095	WB41218UF	4 in. elevation by 12 in. wide
332107	WB51218UF	5 in. elevation by 12 in. wide
332112	WB61218UF	6 in. elevation by 12 in. wide
328577	WB2GC	Grounding clamp

Continued on next page >>

Wire Basket

(continued) Wire Basket Cable Tray

WIRE BASKET ACCESSORIES



Anixter No.	Vendor No.	Description
245172	WB30BC	24 in. bolt cutter
332094	WB30RB	Replacement blade for bolt cutters

Ladder Tray

Cablofil Ladder Tray

CABLOFIL

APPLICATIONS

The PW Line of cable tray products is offered in a wide variety of sizes, designs, and finishes to meet industry standards. Choose from rail, rung and bottom styles that are available in aluminum, mill-galvanized, hot dipped galvanized, stainless steel, and fiberglass finishes. Also choose from various fittings, accessories, firestop systems, and fasteners to complete your installation.

Ladder Tray

COOPER B-LINE

APPLICATIONS

Two-sided cable tray that supports power and low-voltage cabling systems over short, medium and long spans. Cable trays are manufactured in a variety of materials and finishes which enable them to be used in both indoor and outdoor applications. Unique I-beam design provides maximum side rail and rung strength while "Wedge-Lock" splice plates reduce installation costs. Smooth radius bends protect cables bending radius.

STRAIGHT SECTIONS

Anixter No.	Vendor No.	Description
334897	24A-09-12-144	4 in. H x 12 in. W x 12 ft. L, aluminum cable tray, 9 in. rung spacing
334898	36A-09-12-144	6 in. H x 12 in. W x 12 ft. L, aluminum cable tray, 9 in. rung spacing
334899	46A-09-24-240	6 in. H x 24 in. W x 20 ft. L, aluminum cable tray, 9 in. rung spacing

BENDS

Anixter No.	Vendor No.	Description
334900	4A-12-HT12	4 in. H x 12 in. W, horizontal tee, 12 in. radius
334901	4A-12-90HB12	4 in. H x 12 in. W, 90° horizontal bend, 12 in. radius
334902	6A-24-HT12	6 in. H x 24 in. W, horizontal tee, 12 in. radius
334903	6A-24-90HB24	6 in. H x 24 in. W, 90° horizontal bend, 24 in. radius
334904	4A-12-90V012	4 in. H x 12 in. W, 90° vertical outside bend, 12 in. radius
334905	4A-12-90VI12	4 in. H x 12 in. W, 90° vertical inside bend, 12 in. radius
334906	6A-12-90V024	6 in. H x 12 in. W, 90° vertical outside bend, 24 in. radius
334907	6A-24-90V024	4 in. H x 24 in. W, 90° vertical outside bend, 24 in. radius

SPLICES

Anixter No.	Vendor No.	Description
334908	9A-1004	4 in. H standard splice
334909	9A-1006	6 in. H standard splice
334910	9A-1024	4 in. H vertical adjustable splice
334911	9A-1026	6 in. H vertical adjustable splice
334912	9A-1014	4 in. H expansion splice
334913	9A-1016	6 in. H expansion splice

ACCESSORIES

Anixter No.	Vendor No.	Description
334914	99-1620	2,000 amp bonding jumper
334915	99-40	1,600 amp bonding jumper
334916	9A-1104-12	12 in. W drop-out
334917	9A-1104-24	24 in. W drop-out
334918	9P-5512-22SH	12 in. W trapeze support kit
334919	9P-5524-22SH	24 in. W trapeze support kit

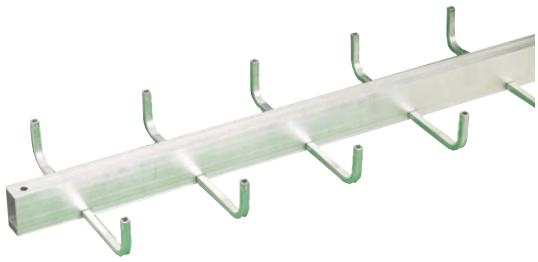
Ladder Tray

Cent-R-Rail

COOPER B-LINE

APPLICATIONS

Center-hung cable tray that supports power and low-voltage cabling systems. Lightweight aluminum and Qwik-Bolt splice hangers make Cent-R-Rail the fastest cable tray system to install. Cent-R-Rail allows cables to be loaded into the tray from the side - eliminating the need to pull cables the length of the tray. This side-loading feature allows for maximum cabling flexibility to accommodate future cabling needs.



STRAIGHT SECTIONS

Anixter No.	Vendor No.	Description
334921	C3ADB09-12-144	3 in. loading depth 12 in. W x 12 ft. L, aluminum DATA TRACK cable tray, 9 in. rung spacing
334922	C4ADB09-12-144	4 in. loading depth 12 in. W x 12 ft. L, aluminum DATA TRACK cable tray, 9 in. rung spacing
334923	C4ADB09-18-144	4 in. loading depth 18 in. W x 12 ft. L, aluminum DATA TRACK cable tray, 9 in. rung spacing
334924	C6ADB06-12-144	6 in. loading depth 6 in. W x 12 ft. L, aluminum DATA TRACK cable tray, 9 in. rung spacing
334925	C6ADB09-18-144	6 in. loading depth 18 in. W x 12 ft. L, aluminum DATA TRACK cable tray, 9 in. rung spacing

SPLICES

Anixter No.	Vendor No.	Description
334926	CAS-SB	Qwik-Bolt splice hanger (one included with every straight section)
334927	CAS-HB	Horizontal adjustable splice
334928	CAS-VB	Vertical adjustable splice

ACCESSORIES

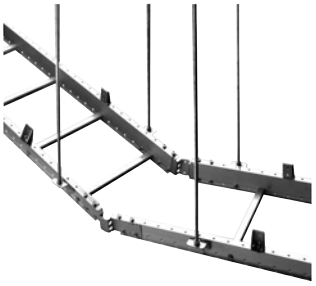
Anixter No.	Vendor No.	Description
334929	CPLM-EC10-GRAY	Plastic center rail end cap - gray
334930	CPLM-EC30-GRAY	Plastic rung end cap - gray
334931	CZNH-CD	DATA-TRACK standard clevis hanger
334932	ATR 1/2"	All threaded rod 1/2 in.
334933	CAM-DO-5	Drop out for 6 in. wide DATA TRACK
334934	CAM-DO-8	Drop out for 9 in. wide DATA TRACK
334935	CAM-GJ	Bonding jumper

Ladder Tray

Redi-Rail

COOPER B-LINE

Mechanically constructed aluminum cable support system designed for easy and economical installation and field modifications.



Anixter No.	Vendor No.	Description
268271	H15AR0912144	5 in. H x 12 in. W x 12 in. L, aluminum cable tray, 9 in. rung spacing

BENDS

Anixter No.	Vendor No.	Description
268272	H15AR1290HB12	5 in. H x 12 in. W, 90° horizontal bend, 12 in. radius
268273	H15AR1290VO12	5 in. H x 12 in. W, 90° vertical outside bend, 12 in. radius
268274	H15AR1290VI12	5 in. H x 12 in. W, 90° vertical inside bend, 12 in. radius
268275	H15AR12HT12	5 in. H x 12 in. W, horizontal tee

SPLICES

Anixter No.	Vendor No.	Description
268276	9AR005	Standard splice
268277	9AR035	Flex-mount splice
268278	9AR055	Tray-to-box splice
268279	9AR025	Vertical adjustable splice
268280	9AR965	Reversing splice
268281	9AR015	Expansion splice

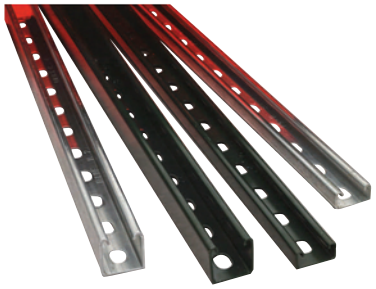
BRACKETS, FITTINGS AND HARDWARE

Anixter No.	Vendor No.	Description
268282	9930	Bonding jumper
268283	9ZNR238	Hanger rod bracket 3/8 in.
268284	9ZNMB15	Mounting bracket
268285	9AR104W	Drop out
268286	9A086W	Blind end
268287	UR4A12	Universal fitting

Strut

Bolted Framing Stocking List

COOPER B-LINE



THREADED ROD

Anixter No.	Vendor No.	Description
ATR3/8X120ZN	ATR3/8X120ZN	3/8 in. x 120 in. L - zinc plated
ATR1/4X120ZN	ATR1/4X120ZN	1/4 in. x 120 in. L - zinc plated

CHANNEL

Anixter No.	Vendor No.	Description
328702	B22SHGALV120	1-5/8 in. x 10 ft. channel slotted hole
328703	B54SHGALV10	1-3/16 in. x 10 ft. channel slotted hole

SPRING NUTS

Anixter No.	Vendor No.	Description
245657	N224	1/4-20 spring nut for B22 channel
205602	N228	Strut channel 3/8 in.
332359	N524ZN	1/4-20 spring nut for B54 channel
332361	N528ZN	3/8-16 spring nut for B54 channel

FITTINGS

Anixter No.	Vendor No.	Description
328707	B101ZN	Two hole corner angle
332367	B104ZN	Four hole corner angle
328717	B441-22ZN	Beam clamps
332363	B822GRY	Plastic end cap for channel

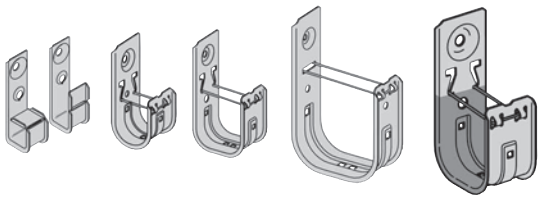
FASTENERS

Anixter No.	Vendor No.	Description
161258	BB10	Single-gang box eliminator bracket
316798	BB10P	Nonmetallic single-gang low-voltage mounting bracket
245212	BB10L	Single-gang box eliminator bracket with screws
245213	BB20	Double-gang box eliminator bracket
245218	BC1	Beam clamp for 1/4 in. or 3/8 in. rod
322190	BC442	Beam clamp for 1/4 in.-20 thread rod to 1/8 in. to 5/8 in. flange
284540	BCH12	3/4 in. cable hook
316795	BCH12C1	Cable hook to beam clamp, thru 18 mm flange, 43x19 mm fill area, zinc plated
316783	BCH12C2	Cable to beam, 3/4 in. hook, thru 1/2 in. flange
316784	BCH12U24	3/4 in. cable hook with universal beam fastener for 1/8-1/4 beam
245214	BCH21	1 5/16 in. cable hook
316796	BCH21C1	1 5/16 in. cable hook with beam clamp
316785	BCH21C2	1 5/16 in. cable hook with angle and beam clamp
231007	BCH21U24	1-5/16 in. cable hook with universal beam fastener
221885	BCH32	2 in. cable hook
316797	BCH32C1	2 in. cable hook with beam clamp
245230	BCH32C2	2 in. cable hook with beam clamp screw type
322185	BCH32C442A	Cable hook 2 in. beam clamp, 1/8 in. to 5/8 in. flange
316791	BCH32PNA	2 in. cable hook with drive pin fastener
231005	BCH32U24	2 in. cable hook with beam clamp hammer on type
222878	BCH64	4 in. cable hook

Spring Steel Fasteners

COOPER B-LINE

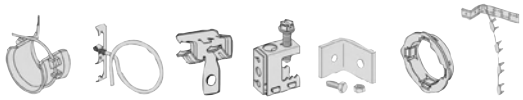
Cooper B-Line offers an extensive line of spring steel fasteners designed to attach to structures and provide required cabling support.



CABLE HOOKS

Anixter No.	Vendor No.	Description
268194	BCH21X	1 5/16 in. cable hook, Xylan-coated
268195	BCH32X	2 in. cable hook, Xylan-coated
268196	BCH64X	4 in. cable hook, Xylan-coated
245214	BCH21	1 5/16 in. cable hook
245231	BCH21W2	1 5/16 in. cable hook with rod fastener
221885	BCH32	2 in. cable hook
245229	BCH32AB	2 in. cable hook with all-thread rod fastener
245230	BCH32C2	2 in. cable hook with beam clamp screw type
204635	BCH32RB	2 in. cable hook with angle bracket
231005	BCH32U24	2 in. cable hook with beam clamp hammer on type
232224	BCH32W2	2 in. cable hook with rod fastener
222878	BCH64	4 in. cable hook
232220	BCH64AB	4 in. cable hook with all-thread rod fastener
284540	BCH12	3/4 in. cable hook
284542	BCH12W2	3/4 in. cable hook with rod fastener

Cooper B-Line cable hooks with exclusive Quick Latch cable retainers provide secure cable support and containment. Xylan-coated cable hooks provide a smooth "frictionless" cable surface.



BRACKETS, CLAMPS AND BRIDLE RINGS

Anixter No.	Vendor No.	Description
245218	BC1	Beam clamp for 1/4 in. or 3/8 in. rod
204627	BCHK2	Angle bracket kit
245234	BE24	Flange beam fasteners 1/8 in. to 1/4 in.
245235	BE58	Flange beam fasteners 5/16 in. to 1/2 in.
245237	BM1	Metal stud plastic grommet
245238	BR324T	Bridle ring 2 in. ring with 1/4 in. thread size
245239	BR324TW2	Bridle ring 2 in. ring with 1/4 in. thread size with rod fasteners
245240	BR324W	Bridle ring 2 in. ring with 1/4 in. thread size lag screw for wood
245241	BR644T	Bridle ring 4 in. ring with 1/4 in. thread size
245236	BRC4	Staple-Lok multi-purpose cable support
284558	BRS32A	Bridle ring 2 in. with saddle
284559	BRS64A	Bridle ring 4 in. with saddle

Cable hooks in combination with other fasteners provide an economical solution for the attachment of Category 5, Category 6, fiber optic, innerduct and other communications cables directly to a variety of structures.

Continued on next page >>

Strut

(continued) Spring Steel Fasteners

WALL MOUNTING BRACKETS

Anixter No.	Vendor No.	Description
161258	BB10	Single-gang box eliminator bracket
245212	BB10L	Single-gang box eliminator bracket with screws
316798	BB10P	Nonmetallic single-gang low-voltage mounting bracket
245215	BB15	Stud-mounted cover plate mounting bracket, single gang
245213	BB20	Double-gang box eliminator bracket
245216	BB25	Stud-mounted cover plate mounting bracket, double gang
245217	BB816	Box mounting bracket for 16 in. stud spacing

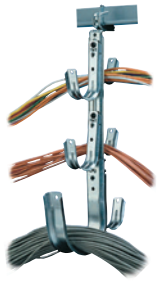
Designed for securing low-voltage Class 2 devices to 1/2 in. or 5/8 in. drywall with out outlet box and for installing on the studs during new construction.

CADDY Cablecat Wide Base Cable Support

ERICO

FEATURES

- Provides proper support of fiber optic cables and innerduct
- Many sizes and designs available to attach to a variety of structures
- Cost-effective alternative to expensive cable tray
- Galvanized finish on J-hooks provide smoother cable pull and greater corrosion resistance
- Complies with UL, C(UL), NEC, and EIA/TIASM requirements for structured cabling systems



Anixter No.	Vendor No.	Description
196469	CAT12	Up to 16 4-pair UTP Cat 5e or 2-strand fiber optic cable, or 10 Cat 6 3/4 in. dia. loop
249454	CAT12TS	Acoustical tee bar
222710	CAT124Z34	12 thru 1/4 in. wire, plain, or threaded rod and 1/8 in. thru 3/8 in. flange - 3/4 in. dia. loop
178304	CAT21	Up to 50 4-pair UTP Cat 5e or 2-strand fiber optic cable or innerduct, or 32 Cat 6 1 5/16 in. dia. loop
197371	CAT2124SM	Hammer-on 1/8 in. thru 1/4 in. flange - 1 5/16 in. diameter loop
197370	CAT2158SM	Hammer-on 5/16 in. thru 1/3 in. flange - 1 5/16 in. diameter loop
194595	CAT21BC	Screw-on 1/8 in. thru thru 1/2 in. flange - 1 5/16 in. diameter loop
178314	CAT32	Up to 80 4-pair UTP Cat 5e or 2-strand fiber optic cable or innerduct, or 50 Cat 6 2 in. dia. loop
178194	CAT3224	Hammer-on 1/8 in. thru 1/4 in. flange - rotates 360° - 2 in. dia. loop
184873	CAT324Z34	#12 thru 1/4 in. wire, plain or threaded rod and 1/8 in. thru 3/8 in. flange - 2 in. dia. loop
184872	CAT326Z34	3/8 in. plain or threaded rod and 3/8 in. thru 9/16 flange - 2 in. dia. loop
178195	CAT32BC	Screw-on 1/8 in. thru 1/2 in. flange - 2 in. dia. loop
196474	CAT425	Up to 425 4-pair UTP or 2-strand fiber optic cable or 265 Cat 6 - 4 in. to 6 in. dia. loop
193654	CAT42524SM	Hammer-on, 1/8 in. to 1/4 in. flange - 4 in. to 6 in. dia. loop
242630	CAT64	Up to 300 4-pair UTP Cat 5e or 2-strand fiber optic cable, or 185 Cat 6 - 4 in. dia. loop
224142	CAT64AFAB3	J-hook angle bracket pre-riveted assembly
178315	CATHBA	Extended J-hook angle bracket - 1/4 in. mounting hole
249455	CAT32AFAB6	Angle bracket assembly 3/8 in. mounting hole

Strut

CADDY Strut Nuts

ERICO

One-piece strut nuts, an easy-to-use alternative to sprint nuts; eliminates need for an additional washer; reduces installation time by up to 50 percent and reduces inventory by as much as 75 percent.

Anixter No.	Vendor No.	Description
249507	SLICK250	Strut nut 1/4 in. - 20 threads
249509	SLICK375	Strut nut 3/8 in. - 16 threads

CADDY Beam Clamps

ERICO

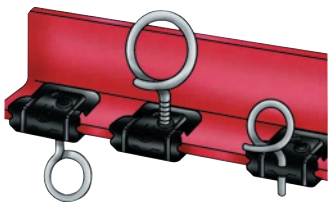
The universal beam clamp is used to support conduit, rod, bridle rings and J-hooks from an I-beam.

Anixter No.	Vendor No.	Description
022851	2FMP28	Multipurpose clip that accommodates beam flange from 1/8 in. to 1/2 in. thickness, standard 1/4-20 or #10-24 threaded bridle rings, standard drive rings, as well as unthreaded bridle rings
139594	BC	Beam clamp thru 1/2 in. flange holds 1/4-20 or #10-24 threaded bridle rings
169090	BC200	Beam clamp for 1/8 in. to 5/8 in. beam flange, supports 1/4 in. threaded rod, 1/4 in. threaded bridle rings and boxes
249487	BC260025EG	Reversible set-screw type beam clamp for up to 3/4 in. beam flange, malleable; top or bottom mount of 1/4 in. dia. threaded rod, bridle rings and boxes from three positions - top, bottom, and back
249489	BC200CD0B	Set-screw type preassembled beam/conduit clamp 1/2 in. rigid or EMT
249491	BC200CD1B	Set-screw type preassembled beam/conduit clamp 3/4 in. rigid or EMT
249493	CD0B	1/2 in. conduit clamp with retained bolt and built-in nut
249494	CD1B	3/4 in. conduit clamp with retained bolt and built-in nut

CADDY Bridle Ring

ERICO

Bridle rings not recommended for high-performance cable. For high-performance cable see CADDY CABLECAT series. Used with beam clamps to hold low-speed cables from a beam. Zinc-plated steel. 2FMP28 hammer-on beam clamp shown above.



Anixter No.	Vendor No.	Description
139593	4BRT20	1 1/4 in. dia., 1/4 in. - 20 thread
182267	4BRT32	2 in. dia., 1/4 in. - 20 thread
169091	4BRT64	4 in. dia., 1/4 in. - 20 thread
139596	2BRT20	1 1/4 in. dia., 10 - 24 thread
133583	2BRT32	2 in. dia., 10 - 24 thread

Hoffman®

More sizes and solutions for more applications.

Select from hundreds of enclosure models to protect controls, wire and cable in a wide variety of indoor applications. A broad selection of accessories and modifications enables you to configure a solution that meets your exact needs.

Contact your Anixter representative today at anixter.com

Pentair
Technical Products

Medium and Large Type 1 Enclosures

HOFFMAN PRODUCTS

Type 1 painted enclosure with hinged door, perforated back panel and locking door.

APPLICATIONS

This convenient combination enclosure with a perforated panel assembly provides a ready solution for mounting electrical control gear. The enclosed panel is perforated to reduce the time required to mount components. Use a self-tapping screw to attach components directly onto the panel, eliminating the need to measure, mark and drill.

TYPE 1 CONTROL BOX WITH PERFORATED PANEL

Anixter No.	Vendor No.	Height (in.)	Width (in.)	Depth (in.)	Panel Size (in.)
A12126T1PP	A12126T1PP	12.00	12.00	6.00	10.25 x 10.25
A16126T1PP	A16126T1PP	16.00	12.00	6.00	14.25 x 10.25
A2016AT1PP	A2016AT1PP	20.00	16.00	6.62	17.00 x 14.50
A2420AT1PP	A2420AT1PP	24.00	20.00	6.62	21.00 x 18.50
A3624AT1PP	A3624AT1PP	36.00	24.00	6.62	32.00 x 22.50
A3630AT1PP	A3630AT1PP	36.00	30.00	6.62	32.00 x 31.50

ACCESSORIES

Anixter No.	Vendor No.	Description
AL12AR	AL12AR	Optional cylinder lock kit

Screw Cover Pull Boxes

HOFFMAN PRODUCTS

APPLICATIONS

Designed for use as a junction and pull box in commercial and general industrial applications. Flush covers and door frames must be ordered separately for flush installations.

Painted screw cover pull box with knockouts.

Anixter No.	Vendor No.	Height (in.)	Width (in.)	Depth (in.)
ASE6X6X4	ASE6X6X4	6.00	6.00	4.00
ASE8X8X4	ASE8X8X4	8.00	8.00	4.00
ASE12X12X6	ASE12X12X6	18.00	18.00	4.00
ASE18X18X6	ASE18X18X6	12.00	12.00	6.00

Wiring Duct

Hellermann Tyton Wiring Duct

HELLERMANN TYTON CORP

Hellermann Tyton's standard slotted wall Pro-Duct features break-away fingers which provide additional access for wire leads. Each section of the duct is provided with two score lines. The upper score line is used to break away fingers when a greater opening is required. The lower score line allows the sidewall to be smoothly cut for joints and "Ts".

FEATURES

- Channels and covers are 6 ft. lengths
- Part numbers shown are gray, also available in black and white

CHANNEL

Anixter No.	Duct Size W x H (in.)	Cover Part Number	Length (ft.)	Description	Color	Pkg. Qty. (ft.)
181-12004	1 x 2	181-91003	30	Non-Adhesive	Gray	120
181-15403	1.5 x 4	181-91506	30	Non-Adhesive	Gray	120
181-22022	2 x 2	181-92004	30	Non-Adhesive	Gray	120
181-23005	2 x 3	181-92004	30	Non-Adhesive	Gray	120
181-33014	3 x 3	181-93007	30	Non-Adhesive	Gray	120

COVER

Anixter No.	Width (in.)	Color	Pkg. Qty. (ft.)
181-91003	1.0	Gray	120
181-91506	1.5	Gray	120
181-92004	2.0	Gray	120
181-93007	3.0	Gray	120

Heat Shrink Tubing

Thin-wall Heat Shrink (2:1)

PANDUIT

SPECIFICATIONS

1. Voltage: 600 V
2. Shrink ratio: 2:1
3. Flammability: flame retardant
4. UL Recognized, CSA Certified
5. Temperature range: -55°C to 135°C
6. Material: black cross-linked polyolefin

APPLICATIONS

Insulating, protecting and color-coding of wire and cables.

100 FT. REELS

Anixter No.	Vendor No.	Size (in.)	Min. Supplied I.D. (in.)	Max. Recovered I.D. (in.)	Wall Thickness (in.)
HSTT06-C	HSTT06-C	1/16	0.063	0.031	0.017
HSTT12-C	HSTT12-C	1/8	0.125	0.062	0.020
HSTT19-C	HSTT19-C	3/16	0.187	0.093	0.020
HSTT50-C	HSTT50-C	1/2	0.500	0.250	0.025
HSTT75-C	HSTT75-C	3/4	0.750	0.375	0.030
HSTT100-C	HSTT100-C	1	1.000	0.500	0.035
HSTT150-C	HSTT150-C	1 1/2	1.500	0.750	0.040

MIL-Spec: AMS-DTL-23053/5 Class 1

48 IN. PIECES

Anixter No.	Vendor No.	Size (in.)	Min. Supplied I.D. (in.)	Max. Recovered I.D. (in.)	Wall Thickness (in.)	No. of Pieces
264582	HSTT06-48-Q	1/16	0.063	0.031	0.017	25
208141	HSTT19-48-Q	3/16	0.187	0.093	0.020	25
211316	HSTT25-48-Q	1/4	0.250	0.125	0.025	25
208144	HSTT38-48-Q	3/8	0.375	0.187	0.025	25
208145	HSTT50-48-5	1/2	0.500	0.250	0.025	25
208147	HSTT75-48-5	3/4	0.750	0.375	0.030	5
211311	HSTT100-48-5	1	1.000	0.500	0.035	5

MIL-Spec: AMS-DTL-23053/5 Class 1

Thick-wall Adhesive-Lined Heat Shrink (3:1)

PANDUIT

SPECIFICATIONS

1. Voltage: 600 V
2. Shrink ratio: 3:1
3. Flammability: flame-retardant outer wall meets UL 224 VW-1
4. UL Listed, CSA Certified
5. Temperature range: -65°C to 110°C
6. Material: adhesive-lined black cross-linked polyolefin
7. Thick wall suitable for burial according to UL 486D

APPLICATIONS

Insulating, protecting and color-coding of wire and cables.

MIL SPEC: AMS-DTL-23053/15

Anixter No.	Size (in.)	Min. Supplied I.D. (in.)	Max. Recovered I.D. (in.)	Wall Thickness (in.)	Size of Pieces	No. of Pieces
HST0.4-6-X	4/10	0.40	0.150	0.090	6 in.	10
HST0.8-12-5	4/5	0.80	0.260	0.110	12 in.	5
HST1.1-12-5	1 1/10	1.10	0.370	0.120	12 in.	5
HST1.5-12-5	1 1/2	1.500	0.500	0.170	12 in.	5
HST2.0-9-5	2	2.000	0.670	0.170	9 in.	5
HST3.0-12-2	3	3.000	1.000	0.170	12 in.	2

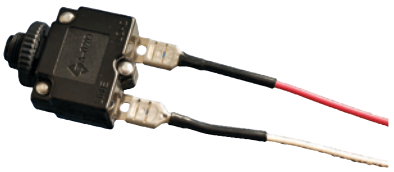
Heat Shrink Tubing

Alpha FIT 105

ALPHA WIRE CORP

SPECIFICATIONS

1. Shrink ratio: 2:1 at 100°C
2. Temperature: -20°C to 105°C
3. Longitudinal shrinkage: +1%/-25%
4. Color: black



APPLICATIONS

Use with PVC cable
With heat-sensitive substrates
Fast recovery time
Wire harnesses and cable assemblies
Flame-retardant requirements
XTRA•GUARD 1 applications
Automated cutting machines (spools)

IRRADIATED PVC

Anixter No.	Vendor No.	Size (in.)	Min. Supplied I.D. (in.)	Max. Recovered I.D. (in.)	Wall Thickness (in.)
AFIT-105-3/64	FIT-105-3/64	3/64	0.046	0.023	0.020
AFIT-105-1/16	FIT-105-1/16	1/16	0.062	0.031	0.020
AFIT-105-3/32	FIT-105-3/32	3/32	0.093	0.046	0.020
AFIT-105-1/8	FIT-105-1/8	1/8	0.125	0.062	0.025
AFIT-105-3/16	FIT-105-3/16	3/16	0.187	0.093	0.025
AFIT-105-1/4	FIT-105-1/4	1/4	0.250	0.125	0.025
AFIT-105-3/8	FIT-105-3/8	3/8	0.375	0.187	0.030
AFIT-105-1/2	FIT-105-1/2	1/2	0.500	0.250	0.030
AFIT-105-3/4	FIT-105-3/4	3/4	0.750	0.375	0.035
AFIT-105-1	FIT-105-1	1	1.000	0.500	0.040
AFIT-105-1-1/2	FIT-105-1-1/2	1 1/2	1.500	0.750	0.045

MIL-I-23053/2C, Class 1 - CSA OFT Flame Test

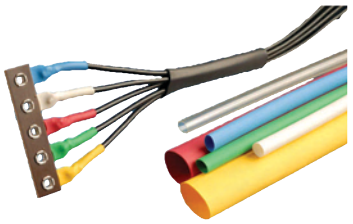
Heat Shrink Tubing

Alpha FIT 221

ALPHA WIRE CORP

SPECIFICATIONS

1. Shrink ratio: 2:1 at 121°C
2. Temperature: -55°C to 135°C
3. Longitudinal shrinkage: -5%
4. Size: 3/64 in. - 4 in.



APPLICATIONS

General purpose insulation and repair
Wire and cable harnessing and bundling
Cable and connector protection
Wire and tubing splicing and connecting
XTRA•GUARD 1 applications
Automated cutting machines (spools)

GENERAL PURPOSE, IRRADIATED POLYOLEFIN

Anixter No.	Vendor No.	Size (in.)	Min. Supplied I.D. (in.)	Max. Recovered I.D. (in.)	Wall Thickness (in.)
AFIT221-3/64-0	FIT-221B-3/64-0	3/64	0.046	0.023	0.016
AFIT221-1/16-0	FIT-221B-1/16	1/16	0.063	0.031	0.017
AFIT221-3/32-0	FIT-221B-3/32-0	3/32	0.093	0.046	0.020
AFIT221-1/8-0	FIT-221B-1/8-0	1/8	0.125	0.062	0.020
AFIT221-3/16-0	FIT-221B-3/16-0	3/16	0.187	0.093	0.020
AFIT221-1/4-0	FIT-221B-1/4-0	1/4	0.250	0.125	0.025
AFIT221-3/8-0	FIT-221B-3/8-0	3/8	0.375	0.187	0.025
AFIT221-1/2-0	FIT-221-1/2-0	1/2	0.500	0.250	0.025
AFIT221-3/4-0	FIT-221-3/4-0	3/4	0.750	0.375	0.030
AFIT221-1-0	FIT-221B-1	1	1.000	0.500	0.035
AFIT221-1 1/2-0	FIT-221-1 1/2	1 1/2	1.500	0.750	0.040
AFIT221-2-0	FIT-221B-2-0	2	2.000	1.000	0.045
AFIT221-3-0	FIT-221B-3-0	3	3.000	1.500	0.050
AFIT221-4-0	FIT-221-4	4	4.000	2.000	0.055

MIL-DTL-23053/5C, Class 1, 2

Heat Shrink Tubing

Alpha FIT 221V

ALPHA WIRE CORP

SPECIFICATIONS

1. Shrink ratio: 2:1 at 90°C
2. Temperature: -55°C to 135°C
3. Longitudinal shrinkage: -5%
4. Size: 3/64 in. - 2 in.

APPLICATIONS

Where substrates are heat sensitive
Where reduced shrink time saves costs
Flame-retardancy requirements
Industrial applications
Cable and connector protection
Automated cutting machines (spools)

LOW SHRINK TEMP FLAME-RETARDANT, IRRADIATED POLYOLEFIN

Anixter No.	Vendor No.	Size (in.)	Min. Supplied I.D. (in.)	Max. Recovered I.D. (in.)	Wall Thickness (in.)
AFIT221V-3/64-0	FIT-221V-3/64-0	3/64	0.046	0.023	0.016
AFIT221V-1/16-0	FIT-221V-1/16-0	1/16	0.063	0.031	0.017
AFIT221V-3/32-0	FIT-221V-3/32-0	3/32	0.093	0.046	0.020
AFIT221V-1/8-0	FIT-221V-1/8-0	1/8	0.125	0.062	0.020
AFIT221V-3/16-0	FIT-221V-3/16-0	3/16	0.187	0.093	0.020
AFIT221V-1/4-0	FIT-221V-1/4-0	1/4	0.250	0.125	0.025
AFIT221V-3/8-0	FIT-221V-3/8-0	3/8	0.375	0.187	0.025
AFIT221V-1/2-0	FIT-221V-1/2-0	1/2	0.500	0.250	0.025
AFIT221V-3/4-0	FIT-221V-3/4-0	3/4	0.750	0.375	0.030
AFIT221V-1-0	FIT-221V-1-0	1	1.000	0.500	0.035
AFIT221V-1-1/2-0	FIT221V-1 1/2-0	1 1/2	1.500	0.750	0.040
AFIT221V-2-0	FIT-221V-2	2	2.000	1.000	0.045

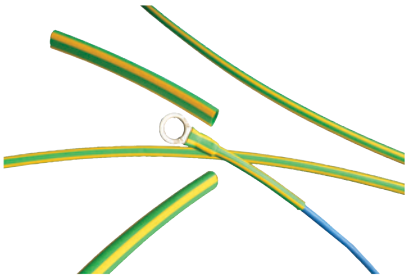
MIL-DTL-23053/5C, Class 1, 3 - CSA OFT Flame Test, UL VW-1

Alpha FIT 260

ALPHA WIRE CORP

SPECIFICATIONS

1. Shrink ratio: 2:1 at 121°C
2. Temperature: -55°C to 135°C
3. Longitudinal shrinkage: -5%
4. Size: 1/8 in. - 1 in.
5. Color code: green and yellow striped



APPLICATIONS

Approved for use by NFPA for 600 V ground lead identification
E-OEM component identification
Wire harness identification
Automated cutting machines (spools)

CROSS-LINKED POLYOLEFIN, GROUND IDENTIFICATION

Anixter No.	Vendor No.	Size (in.)	Min. Supplied I.D. (in.)	Max. Recovered I.D. (in.)	Wall Thickness (in.)
AFIT-260-1/8	FIT-260-1/8	1/8	0.125	0.062	0.020
AFIT-260-3/8-G/Y	FIT-260-3/8	3/8	0.375	0.187	0.025
AFIT-260-1/2	FIT-260-1/2	1/2	0.500	0.250	0.025
AFIT-260-3/4	FIT-260-3/4	3/4	0.750	0.375	0.030
AFIT-260-1	FIT-260-1	1	1.000	0.500	0.035

NEC Article 250.119, UL VW-1

Heat Shrink Tubing

Alpha FIT 321

ALPHA WIRE CORP

SPECIFICATIONS

1. Shrink ratio: 3:1 at 125°C
2. Temperature: -55°C to 125°C
3. Longitudinal shrinkage: -15%
4. Size: 1/8 in. - 1-1/2 in.

APPLICATIONS

Connectorized cable repair
Water resistance and encapsulation
Environmental and outdoor protection
XTRA•GUARD 1, 2 and 3 applications

DUAL WALL FLEXIBLE POLYOLEFIN WITH THICK WALL ADHESIVE

Anixter No.	Vendor No.	Size (in.)	Min. Supplied I.D. (in.)	Max. Recovered I.D. (in.)	Wall Thickness (in.)
AFIT-321-1/4-0	FIT-321-1/4	1/4	0.240	0.080	0.040
AFIT-321-1/2-0-4FT	FIT-321-1/2	1/2	0.470	0.160	0.070
AFIT-321-1-4FT	FIT-321-1-4FT	1	0.940	0.320	0.100
AFIT-321-1-1/2-0	FIT-321-1-1/2	1 1/2	1.570	0.510	0.100

MIL-DTL-23053/4D, Class 3

Alpha FIT 350

ALPHA WIRE CORP

SPECIFICATIONS

1. Shrink ratio: 2:1 at 175°C
2. Temperature: -55°C to 175°C
3. Longitudinal shrinkage: -10%
4. Size: 3/64 in. - 1 in.
5. Color: Clear

APPLICATIONS

High-temperature environments
Faster recovery time than TFE
Exposure to chemicals
Use with high-temperature wire
Caustic environments
XTRA•GUARD 4 applications

FLAME-RETARDANT IRRADIATED PVDF

Anixter No.	Vendor No.	Size (in.)	Min. Supplied I.D. (in.)	Max. Recovered I.D. (in.)	Wall Thickness (in.)
AFIT-350-3/64	FIT-350-3/64	3/64	0.046	0.023	0.010
AFIT-350-1/16	FIT-350-1/16	1/16	0.063	0.031	0.010
AFIT350-3/32-C	FIT350-3/32	3/32	0.093	0.046	0.010
AFIT350-1/8-C	FIT-350-1/8	1/8	0.125	0.062	0.010
AFIT-350-3/16	FIT-350-3/16	3/16	0.187	0.093	0.010
AFIT-350-1/4	FIT-350-1/4	1/4	0.250	0.125	0.013
AFIT-350-3/8	FIT-350-3/8	3/8	0.375	0.187	0.013
AFIT-350-1/2-C-4FT	FIT-350-1/2	1/2	0.500	0.250	0.013
AFIT-350-3/4	FIT-350-3/4	3/4	0.750	0.375	0.017
AFIT-350-1	FIT-350-1	1	1.000	0.500	0.019

MIL-DTL-23053/8C - CSA OFT Flame Test, UL VW-1

Heat Shrink Tubing

Alpha FIT 400

ALPHA WIRE CORP

SPECIFICATIONS

1. Shrink ratio: 1.2:1 at 176°C
2. Temperature: -75°C to 200°C
3. Longitudinal shrinkage: -15%
4. Size: 20 AWG to 6 AWG
5. Color: natural

APPLICATIONS

Fiber optic applications
High-temperature cable
Limited-space applications
XTRA • GUARD 4 and 5 applications
Digital electronics (signal sensitive equip.)
Extremely caustic environments
Fast recovery time
Data and FEP cable applications

TEMPERATURE-/CHEMICAL-RESISTANT FEP

Anixter No.	Vendor No.	Size (AWG)	Min. Supplied I.D. (in.)	Max. Recovered I.D. (in.)	Wall Thickness (in.)
AFIT-400-20	FIT-400-20	20	0.045	0.039	0.008
AFIT-400-18	FIT-400-18	18	0.060	0.049	0.008
AFIT-400-16	FIT-400-16	16	0.075	0.061	0.009
AFIT-400-14	FIT-400-14	14	0.092	0.072	0.009
AFIT-400-12	FIT-400-12	12	0.115	0.089	0.009
AFIT-400-10	FIT-400-10	10	0.141	0.114	0.010
AFIT-400-9	FIT-400-9	9	0.158	0.124	0.010
AFIT-400-8	FIT-400-8	8	0.180	0.143	0.010
AFIT-400-7	FIT-400-7	7	0.197	0.158	0.011
AFIT-400-6	FIT-400-6	6	0.225	0.180	0.011

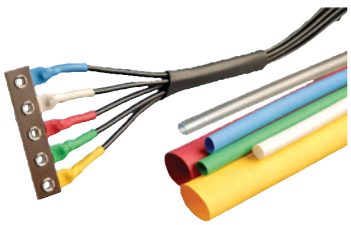
MIL-DTL-23053/11C, Class 1

Alpha FIT 421

ALPHA WIRE CORP

SPECIFICATIONS

1. Shrink ratio: 4:1 at 121°C
2. Temperature: -55°C to 135°C
3. Longitudinal shrinkage: -15%
4. Size: 1 in. - 4 in.
5. Color: black



APPLICATIONS

D-Sub connector strain relief
RS-232 25-pin connector to cable coverage
Covers most irregular shapes and connectors
PC board coverage/protection

OVER-EXPANDED, CROSS-LINKED POLYOLEFIN

Anixter No.	Vendor No.	Size (in.)	Min. Supplied I.D. (in.)	Max. Recovered I.D. (in.)	Wall Thickness (in.)
AFIT-421-1-0-4FT	FIT-421-1	1	1.000	0.260	0.045
AFIT-421-1-1/2-0-4FT	FIT-421-1-1/2	1 1/2	1.500	0.375	0.045
AFIT-421-2	FIT-421-2	2	2.000	0.550	0.045
AFIT-421-3	FIT-421-3	3	3.000	0.810	0.045
AFIT-421-4	FIT-421-4	4	4.000	1.050	0.045

MIL-DTL-23053/5C, Class 1, UL VW-1

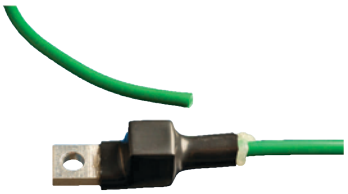
Heat Shrink Tubing

Alpha FIT 621

ALPHA WIRE CORP

SPECIFICATIONS

1. Shrink ratio: 5.6:1 at 120°C
2. Temperature: -55°C to 90°C
3. Longitudinal shrinkage: -10%
4. Size: 5/8 in. - 4 in.
5. Color: black



APPLICATIONS

Protection in severe environments
Large to small connector-to-cable protection
Underground utility splice protection
Corrosion protection of metal parts
Protects substrates in direct-burial applications
Heavy-duty-abrasion resistance

DUAL WALL FLEXIBLE POLYOLEFIN WITH THICK WALL ADHESIVE

Anixter No.	Vendor No.	Size (in.)	Min. Supplied I.D. (in.)	Max. Recovered I.D. (in.)	Wall Thickness (in.)
AFIT-621-5/8	FIT-621-5/8	5/8	0.600	0.150	0.060
AFIT-621-1-1/4-0	FIT-621-1-1/4	1 1/4	1.250	0.220	0.059
AFIT-621-2-1/2	FIT-621-2-1/2	2 1/2	2.500	0.500	0.120
AFIT-621-3	FIT-621-3	3	3.000	0.750	0.140
AFIT-621-4	FIT-621-4	4	4.000	0.900	0.155

Alpha FIT 750

ALPHA WIRE CORP

SPECIFICATIONS

1. Shrink ratio: 2:1 at 121°C
2. Temperature: -55°C to 110°C
3. Longitudinal shrinkage: -5%
4. Size: 1/4 in. - 1 in.
5. Color: black

APPLICATIONS

Moisture protection of substrates
Permanent sealing of substrates
Wire isolation within a harness
Permanent joint splice repair
General purpose usage with adhesive
XTRA•GUARD 2 applications

BONDING, ADHESIVE-LINED, IRRADIATED POLYOLEFIN

Anixter No.	Vendor No.	Size (in.)	Min. Supplied I.D. (in.)	Max. Recovered I.D. (in.)	Wall Thickness (in.)
AFIT-750-1/4	FIT-750-1/4	1/4	0.250	0.125	0.030
AFIT-750-3/8	FIT-750-3/8	3/8	0.375	0.187	0.031
AFIT-750-1/2	FIT-750-1/2	1/2	0.500	0.250	0.032
AFIT-750-3/4	FIT-750-3/4	3/4	0.750	0.375	0.037
AFIT-750-1-0	FIT-750-1	1	1.000	0.500	0.039

MIL-DTL-23053/4D, Class 2, UL VW-1

Slit Loom

Corrugated Loom Tubing

PANDUIT

SPECIFICATIONS

1. Temperature: -40°C to 50°C
2. Package size: available in 10 ft. to 500 ft. reels
3. Material: Polyethylene
4. All PANDUIT corrugated loom tubing is RoHS compliant
5. Many more colors, put-ups and sizes available

APPLICATIONS

Also known as loom, slit loom, convoluted tubing, and ribbed tubing, this product is used in industries such as automotive, automotive aftermarket, computer/electronics, emergency vehicles, farm agriculture, heavy truck, marine, recreation vehicles, telecommunications, bus, construction and specialty markets.

Anixter No.	Vendor No.	Color	Slit or Solid	Inside Diameter (in.)	Outside Diameter (in.)	Standard Reel Length (ft.)
326452	CLT25F-C20	Black	Slit	0.270	0.390	100
326459	CLTS25F-C	Black	Solid	0.280	0.390	100
326460	CLTS25F-C3	Orange	Solid	0.280	0.390	100
326453	CLT38F-C3	Orange	Slit	0.410	0.560	100
326461	CLTS38F-C	Black	Solid	0.420	0.560	100
326462	CLTS38F-C3	Orange	Solid	0.420	0.560	100
208029	CLT50F-C20	Black	Slit	0.510	0.670	100
267937	CLT50F-C3	Orange	Slit	0.510	0.670	100
326463	CLTS50F-C	Black	Solid	0.510	0.670	100
326464	CLTS50F-C3	Orange	Solid	0.510	0.670	100
187617	CLT75F-C20	Black	Slit	0.760	0.940	100
326465	CLTS75F-C	Black	Solid	0.760	0.940	100
326466	CLTS75F-C3	Orange	Solid	0.760	0.940	100
187616	CLT100F-C20	Black	Slit	0.920	1.090	100
210176	CLT100F-C3	Orange	Slit	0.920	1.090	100
326467	CLTS100F-C	Black	Solid	0.920	1.090	100
234761	CLT125F-L20	Black	Slit	1.290	1.500	50
263041	CLT125F-L3	Orange	Slit	1.290	1.500	50
326468	CLTS125F-L	Black	Solid	1.290	1.500	50
326469	CLTS125F-L3	Orange	Solid	1.290	1.500	50
255064	CLT150F-T20	Black	Slit	1.550	1.860	200
225014	CLT150F-X20	Black	Slit	1.550	1.860	10
225016	CLT150F-X4	Yellow	Slit	1.550	1.860	10
322813	CLT188F-X20	Black	Slit	1.880	2.17	10
326457	CLT188F-X3	Orange	Slit	1.880	2.17	10
326458	CLT188F-X4	Yellow	Slit	1.880	2.17	10

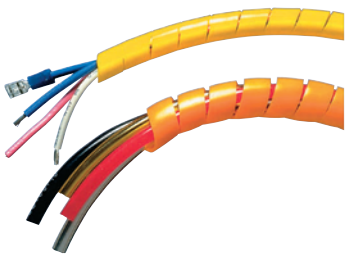
Spiral Wrap

Spiral Wrap Tubing

PANDUIT

SPECIFICATIONS

1. OPERATING TEMPERATURE:
   PE: -40°C to 50°C
   FRPE: -40°C to 60°C
   Nylon 6.6: -40°C to 65°C
   Teflon: -40°C to 180°C
2. COLOR DESCRIPTION:
   All below are natural - call your local sales representative for other colors available
3. PUT-UPS:
   All listed below are 100 ft. lengths
   Call your local sales representative for other put-ups and sizes available



APPLICATIONS

Harness multiple cables into a single, manageable bundle
Allows breakouts of single/multiple cables
Provides protection for cables

Anixter No.	Vendor No.	Tubing Material	Nominal O.D. (in.)	Wall Thickness (in.)	Max. Diam. Inner Wire Bundle Thickness (in.)
137877	T12F-C	Polyethylene	0.120	0.030	1/2
137878	T25F-C	Polyethylene	0.250	0.040	2
125653	T38F-C	Polyethylene	0.380	0.050	3
149726	T50F-C	Polyethylene	0.500	0.060	4
T62F-C	T62F-C	Polyethylene	0.620	0.060	4 1/2
225998	T75F-C0	Polyethylene	0.75	0.060	5
234764	T100F-C	Polyethylene	1.00	0.070	6
T12FR-C	T12FR-CY	Flame-retardant polyethylene	0.120	0.030	1/2
T38FR-C	T38FR-C	Flame-retardant polyethylene	0.380	0.050	3
T50FR-C	T50FR-C	Flame-retardant polyethylene	0.500	0.060	4
T62FR-C	T62FR-C	Flame-retardant polyethylene	0.620	0.060	4 1/2
T75FR-C	T75FR-CY	Flame-retardant polyethylene	0.750	0.060	5
T100FR-C	T100FR-CY	Flame-retardant polyethylene	1.000	0.070	6
T12N-C	T12N-C	Nylon	0.120	0.030	1/2
T25N-C	T25N-C	Nylon	0.250	0.040	2
T38N-C	T38N-C	Nylon	0.380	0.050	3
T50N-C	T50N-C	Nylon	0.500	0.060	4
T62N-C	T62N-C	Nylon	0.620	0.060	4 1/2
T75N-C	T75N-C	Nylon	0.750	0.060	5
T100N-C	T100N-C	Nylon	1.000	0.070	6

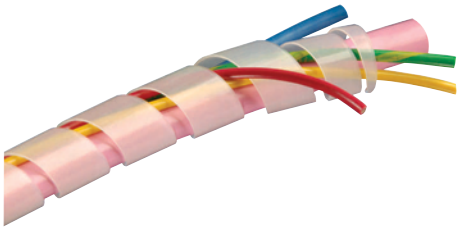
Spiral Wrap

Spiral Wrap Tubing

ALPHA WIRE CORP

SPECIFICATIONS

1. OPERATING TEMPERATURE:
   FRPE: -20°C to 80°C
   Nylon: -40°C to 120°C
   PTFE: -268°C to 250°C
   PVC: -20°C to 80°C
   PE: -66°C to 88°C
2. COLOR DESCRIPTION:
   PE, Nylon, and PTFE: natural
   FRPE: white
   PVC: black
3. PUT-UPS:
   Standard put-ups are 25 ft. and 100 ft.
   Some are available in 500 ft. - contact your local sales representative for more information



APPLICATIONS

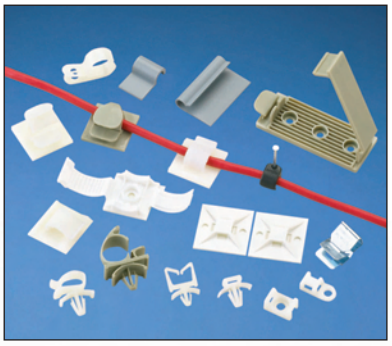
Spiral wrap is an easy and inexpensive way to protect and organize cable and wire bundles. Spiral wrap protects wire from abrasion and it allows breakouts of a single or multiple wires for rerouting or replacement.

Anixter No.	Vendor No.	Tubing Material	Nominal O.D. (in.)	Wall Thickness (in.)	Max. Diam. Inner Wire Bundle Thickness (in.)
ASW-1	SW-1	Polyethylene	0.125	0.031	1/2
ASW-2	SW-2	Polyethylene	0.250	0.046	2
ASW-3	SW-3	Polyethylene	0.375	0.052	3
ASW-4	SW-4	Polyethylene	0.500	0.062	4
ASW-5	SW-5	Polyethylene	0.750	0.065	5
ASW-6	SW-6	Polyethylene	1.000	0.095	6
ASW-10	SW-10	Flame-resistant polyethylene	0.125	0.031	1/2
ASW-11	SW-11	Flame-resistant polyethylene	0.250	0.046	2
ASW-12	SW-12	Flame-resistant polyethylene	0.375	0.052	3
ASW-13	SW-13	Flame-resistant polyethylene	0.500	0.062	4
ASW-14	SW-14	Flame-resistant polyethylene	0.750	0.065	5
ASW-20	SW-20	Nylon	0.125	0.016	1/2
ASW-21	SW-21	Nylon	0.250	0.025	2
ASW-22	SW-22	Nylon	0.375	0.035	3
ASW-23	SW-23	Nylon	0.500	0.035	4
ASW-24	SW-24	Nylon	0.750	0.032	5
ASW-25	SW-25	Nylon	1.000	0.032	6
ASW-30	SW-30	PTFE	0.125	0.030	1/2
ASW-31	SW-31	PTFE	0.250	0.030	2
ASW-32	SW-32	PTFE	0.375	0.030	2 1/2
ASW-33	SW-33	PTFE	0.500	0.030	3
ASW-34	SW-34	PTFE	0.750	0.032	3 1/2
ASW-35	SW-35	PTFE	1.000	0.040	4
ASW-50	SW-50	PVC	0.125	0.032	1/2
ASW-51	SW-51	PVC	0.250	0.045	2
ASW-52	SW-52	PVC	0.375	0.052	2 1/2
ASW-53	SW-53	PVC	0.500	0.062	3

Improve Reliability and Productivity with Solutions from Panduit

Cable Ties

Stainless Steel Cable Ties



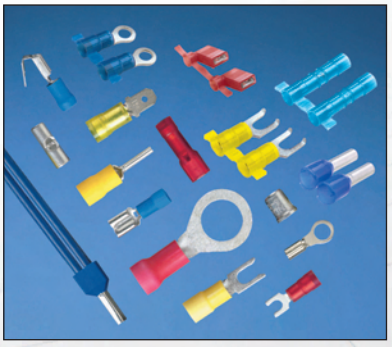
Wiring Accessories

Heat Shrink and Abrasion Protection

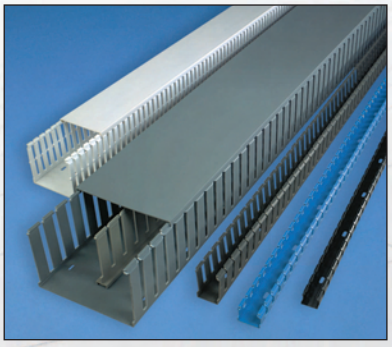
Identification and Labeling Products

Power and Grounding Connectors

Raceway Systems



Terminals



Wiring Duct

For more information on our solutions, visit us at www.panduit.com, call us at 800-777-3300 or email us at cs@panduit.com.

Unified Physical Infrastructure

building a smarter, unified business foundation
Connect. Manage. Automate.

PANDUIT®

Cable Ties

PAN-TY Cable Ties - Nylon 6.6

PANDUIT
One-piece construction, low thread force
For 1,000 packs, replace vendor "-C" with "-M" (PLT1M-M)
Suffix "0" denotes weather-resistant nylon 6.6

MINIATURE CROSS SECTION

Anixter No.	Vendor No.	Max. Bundle Dia. (in.)	Length (in.)	Color	Std. Pkg.
104668	PLT1M-C	0.87	3.9	Natural	100
104669	PLT1M-C0	0.87	3.9	Black	100
104670	PLT1.5M-C	1.25	5.6	Natural	100
283462	PLT1.5M-C0	1.25	5.6	Black	100
104679	PLT2M-C	2.00	8.0	Natural	100
104680	PLT2M-C0	2.00	8.0	Black	100

Minimum loop tensile strength: 18 lb.

INTERMEDIATE CROSS SECTION

Anixter No.	Vendor No.	Max. Bundle Dia. (in.)	Length (in.)	Color	Std. Pkg.
104671	PLT1.5I-C	1.38	5.6	Natural	100
104673	PLT1.5I-C0	1.38	5.6	Black	100
104683	PLT2I-C	2.00	8.0	Natural	100
104684	PLT2I-C0	2.00	8.0	Black	100
112222	PLT2I-C14	2.00	8.0	Telephone gray	100
104913	PLT3I-C	3.00	11.4	Natural	100
104685	PLT3I-C0	3.00	11.4	Black	100
112221	PLT3I-C14	3.00	11.4	Telephone gray	100
283460	PLT4I-C	4.00	14.5	Natural	100
283461	PLT4I-C0	4.00	14.5	Black	100
112219	PLT4I-C14	4.00	14.5	Telephone gray	100

Minimum loop tensile strength: 40 lb.

STANDARD CROSS SECTION

Anixter No.	Vendor No.	Max. Bundle Dia. (in.)	Length (in.)	Color	Std. Pkg.
104674	PLT1.5S-C	1.50	6.2	Natural	100
213852	PLT1.5S-C0	1.50	6.2	Black	100
104675	PLT2S-C	1.88	7.4	Natural	100
104678	PLT2S-C0	1.88	7.4	Black	100
104686	PLT3S-C	3.00	11.5	Natural	100
104687	PLT3S-C0	3.00	11.5	Black	100
104688	PLT4S-C	4.00	14.5	Natural	100
104689	PLT4S-C0	4.00	14.5	Black	100

Minimum loop tensile strength: 50 lb.

LIGHT-HEAVY CROSS SECTION

Anixter No.	Vendor No.	Max. Bundle Dia. (in.)	Length (in.)	Color	Std. Pkg.
153916	PLT3H-L	3.00	11.4	Natural	50
104690	PLT4H-L	4.00	14.5	Natural	50
104907	PLT4H-L0	4.00	14.5	Black	50
264600	PLT6LH-L	6.00	21.9	Natural	50
244222	PLT6LH-L0	6.00	21.9	Black	50
254356	PLT9LH-L	9.00	30.5	Natural	50

Minimum loop tensile strength: 120 lb.

Cable Ties

PAN-TY Indoor Polypropylene Cable Ties

PANDUIT

FEATURES

- One-piece construction, low thread force
- For chemical resistance in indoor industrial environments where hydrochloric acid, salts and bases may be present
- Natural polypropylene has a distinctive green color

MINIATURE CROSS SECTION

Anixter No.	Vendor No.	Max. Bundle Dia. (in.)	Length (in.)	Color	Std. Pkg.
313958	PLT1M-M109	0.87	3.9	Poly green	1,000

Minimum loop tensile strength: 11 lb.

INTERMEDIATE CROSS SECTION

Anixter No.	Vendor No.	Max. Bundle Dia. (in.)	Length (in.)	Color	Std. Pkg.
313960	PLT1.5I-M109	1.38	5.6	Poly green	1,000

Minimum loop tensile strength: 18 lb.

STANDARD CROSS SECTION

Anixter No.	Vendor No.	Max. Bundle Dia. (in.)	Length (in.)	Color	Std. Pkg.
313961	PLT2S-M109	1.88	7.4	Poly green	1,000
313963	PLT3S-M109	3.00	11.5	Poly green	1,000
314064	PLT4S-M109	4.00	14.5	Poly green	1,000

Minimum loop tensile strength: 30 lb.

LIGHT-HEAVY CROSS SECTION

Anixter No.	Vendor No.	Max. Bundle Dia. (in.)	Length (in.)	Color	Std. Pkg.
314065	PLT2H-TL109	2.00	8.1	Poly green	250
314069	PLT3H-TL109	3.00	11.4	Poly green	250
314070	PLT4H-TL109	4.00	14.5	Poly green	250

Minimum loop tensile strength: 50 lb.

Cable Ties

PAN-TY TEFZEL Cable Ties

PANDUIT

Ideal for applications requiring resistance to environmental stresses such as chemical attack, gamma radiation, ultraviolet radiation and extreme temperatures; ideal for use in nuclear power facilities and chemical processing plants.

TEFZEL CABLE TIES

Anixter No.	Vendor No.	Description	Std. Pkg.
PLT1M-C76	PLT1M-C76	PAN-TY locking tie, TEFZEL, 4.0 in., 18 lb., blue	100
327457	PLT2I-C76	PAN-TY locking tie, TEFZEL, 8.0 in., 25 lb., blue	100
348467	PLT2S-C76	PAN-TY locking tie, TEFZEL, 7.4 in., 50 lb., blue	100
327458	PLT3S-C76	PAN-TY locking tie, TEFZEL, 11.6 in., 50 lb., blue	100
PAN-PLT4S-C76	PLT4S-C76	PAN-TY locking tie, TEFZEL, 14.6 in., 50 lb., blue	100
327459	PLT3H-L76	PAN-TY locking tie, TEFZEL, 11.5 in., 120 lb., blue	100
327460	PLT4H-L76	PAN-TY locking tie, TEFZEL, 14.6 in., 120 lb., blue	100

CABLE TIE TOOLS

Anixter No.	Vendor No.	Description	Std. Pkg.
236192	GTS	Cable tie tool, ergonomic, adjustable, M-I-S ties	1
354600	GTS	Subminiature, miniature, intermediate and standard cross sections. Same as GTS (smaller handle grip)	1
269207	GTH	Cable tie installation tool. Installs S (standard), HS (heavy standard), LH (light heavy), H (heavy) cross section cable ties	1

Ergonomic cable tie tools - tool controlled tension and cut-off

Cable Ties

TAK-TY Hook & Loop Cable Ties

PANDUIT

FEATURES

- Soft premium hook-and-loop material, safe to use on high-performance cabling, protecting against over-tensioning
- Wide selection of sizes, styles and colors
- Adjustable, releasable and re-usable hundreds of times
- Note: Minimum 2 in. overlap required to achieve loop tensile rating

LOOP TIES - SLOT ALLOWS FOR PRE-WRAPPING OF BUNDLES

Anixter No.	Vendor No.	Length (in.)	Max. Bundle Dia. (in.)	Color	Std. Pkg.
167686	HLT2I-X0	8.0	1.91	Black	10
167689	HLT3I-X0	12.0	3.18	Black	10

Minimum loop tensile strength: 50 lb. width: 0.50 in.

STRIP TIES - ROLLS PERFORATED IN CONVENIENT 6 IN., 12 IN. AND 18 IN. STRIPS

Anixter No.	Vendor No.	Length (in.)	Max. Bundle Dia. (in.)	Color	Std. Pkg.
167683	HLS1.5S-X0	6.0	1.50	Black	10
167684	HLS3S-X0	12.0	3.20	Black	10
167685	HLS5S-X0	18.0	5.00	Black	10

Minimum loop tensile strength: 50 lb., width 0.75 in.

15 FT. AND 75 FT. ROLLS - CAN BE CUT TO DESIRED LENGTH, ELIMINATING WASTE

Anixter No.	Vendor No.	Length (ft.)	Width (in.)	Color	Std. Pkg.
216722	HLM-15R0	15	0.330	Black	1
167690	HLS-15R0	15	0.750	Black	1
521083	HLS-15R2	15	0.750	Red	1
230654	HLS-15R3	15	0.750	Orange	1
521082	HLS-15R4	15	0.750	Yellow	1
521080	HLS-15R5	15	0.750	Green	1
524804	HLS-15R6	15	0.750	Blue	1
186085	HLS-15R8	15	0.750	Gray	1
524807	HLS-15R10	15	0.750	White	1
200473	HLS-75R0	75	0.750	Black	1
339404	HLS-75R2	75	0.750	Red	1
227534	HLS-75R3	75	0.750	Orange	1
227535	HLS-75R4	75	0.750	Yellow	1
305001	HLS-75R5	75	0.750	Green	1
255078	HLS-75R6	75	0.750	Blue	1
339405	HLS-75R8	75	0.750	Gray	1
330449	HLS-75R10	75	0.750	White	1

Minimum loop tensile strength: 18 lb. (HLM), 50 lb. (HLS), length: 15 ft. and 75 ft., Maximum bundle diameter: various. Standard package: 1

HLB HOOK & LOOP STACKED STRIP CABLE TIES (100 PCS)

Anixter No.	Vendor No.	Color
367394	HLB2S-C0	Black
367398	HLB2S-C2	Red
367400	HLB2S-C3	Orange
367402	HLB2S-C4	Yellow
367403	HLB2S-C5	Green
367404	HLB2S-C6	Blue
367405	HLB2S-C8	Gray
367406	HLB2S-C10	White

Minimum loop tensile strength: 50 lb., length: 7.0 in., width: 0.75 in., ready to use

Cable Ties

TAK-TAPE Hook & Loop Cable Tie Rolls

PANDUIT

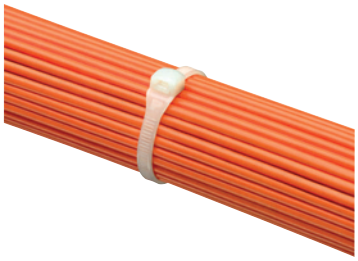
FEATURES

- Hook-and-loop fastener for general-purpose bundling
- Thin and flexible to quickly wrap around bundle
- Adjustable, releasable and re-usable multiple times
- Continuous rolls; installer can cut to size
- Note: 20 ft. rolls come in handy plastic containers; 35 ft. rolls come in a 3-pack or a 10-pack (which includes a cutter)
- Minimum loop tensile strength: 40 lb., width: 0.75 in.

Anixter No.	Vendor No.	Length (ft.)	Width (in.)	Std. Pkg.
262715	TTS-20R0	20	0.750	1
356854	TTS-35R3-0	35	0.750	3
262716	TTS-35RX0	35	0.750	10

CONTOUR-TY Cable Ties - Nylon 6.6

PANDUIT



FEATURES

- Unique design prevents wire and cable damage
- Low-profile head avoids snags and reduces overall bundle size
- Outside teeth and smooth, round edges protect cable jacket - ideal for high-vibration applications
- Parallel entry limits exposure to sharp edges and protects workers' arms/hands
- Fully enclosed head for consistent strength

MINIATURE CROSS SECTION

Anixter No.	Vendor No.	Length (in.)	Max. Bundle Dia. (in.)	Standard Pack
249860	CBR1M-M	4.1	1.00	1,000
249862	CBR1.5M-M	5.6	1.50	1,000
249863	CBR2M-M	7.2	2.00	1,000

Minimum loop tensile strength: 18 lb.

INTERMEDIATE CROSS SECTION

Anixter No.	Vendor No.	Length (in.)	Max. Bundle Dia. (in.)	Standard Pack
249864	CBR1.5I-M	5.9	1.50	1,000
249865	CBR3I-M	10.4	3.00	1,000
249866	CBR4I-M	13.6	4.00	1,000

Minimum loop tensile strength: 40 lb.

STANDARD CROSS SECTION

Anixter No.	Vendor No.	Length (in.)	Max. Bundle Dia. (in.)	Standard Pack
249867	CBR2S-M	7.6	2.00	1,000
249869	CBR3S-M	10.8	3.00	1,000
249870	CBR4S-M	14.0	4.00	1,000

Minimum loop tensile strength: 50 lb.

HEAVY-STANDARD CROSS SECTION

Anixter No.	Vendor No.	Length (in.)	Max. Bundle Dia. (in.)	Standard Pack
249871	CBR2HS-D	8.0	2.00	500

Minimum loop tensile strength: 85 lb.

LIGHT-HEAVY CROSS SECTION

Anixter No.	Vendor No.	Length (in.)	Max. Bundle Dia. (in.)	Standard Pack
249873	CBR4LH-TL	14.6	4.00	250
249875	CBR6LH-C	20.9	6.00	100

Minimum loop tensile strength: 120 lb.

Cable Ties

DOME-TOP Barb Ty Cable Ties - Nylon

PANDUIT

FEATURES

- DOME-TOP head features unique, patented design with round, smooth edges
- Stainless steel locking barb provides consistent performance, reliability and infinite adjustability through entire bundle range
- High strength and low thread force
- Patented low-thread-force design reduces operator fatigue and improves productivity, and high loop tensile strength exceeds industry standards
- Suffix "0" denotes weather-resistant nylon 6.6

MINIATURE CROSS SECTION

Anixter No.	Vendor No.	Max. Bundle Dia. (in.)	Length (in.)	Color	Std. Pkg.
190586	BT1M-C	0.90	4.0	Natural	100
188869	BT1M-M	0.90	4.0	Natural	1,000
190588	BT2M-C	2.00	7.9	Natural	100
283488	BT2M-M	2.00	7.9	Natural	1,000

Minimum loop tensile strength: 18 lb.

INTERMEDIATE CROSS SECTION

Anixter No.	Vendor No.	Max. Bundle Dia. (in.)	Length (in.)	Color	Std. Pkg.
190591	BT1.5I-C	1.50	6.1	Natural	100
249523	BT1.5I-M	1.50	6.1	Natural	1,000
190592	BT2I-C	2.00	8.0	Natural	100
190595	BT2I-M	2.00	8.0	Natural	1,000
190596	BT3I-C	3.00	11.3	Natural	100
283492	BT3I-M	3.00	11.3	Natural	1,000

Minimum loop tensile strength: 40 lb.

STANDARD CROSS SECTION

Anixter No.	Vendor No.	Max. Bundle Dia. (in.)	Length (in.)	Color	Std. Pkg.
190602	BT2S-C	2.00	8.0	Natural	100
249920	BT2S-C0	2.00	8.0	Black	100
162064	BT2S-M	2.00	8.0	Natural	1,000
188872	BT2S-M0	2.00	8.0	Black	1,000
249921	BT3S-C	3.00	12.0	Natural	100
249922	BT3S-C0	3.00	12.0	Black	100
188873	BT3S-M	3.00	12.0	Natural	1,000
188874	BT3S-M0	3.00	12.0	Black	1,000

Minimum loop tensile strength: 50 lb.

LIGHT-HEAVY CROSS SECTION

Anixter No.	Vendor No.	Max. Bundle Dia. (in.)	Length (in.)	Color	Std. Pkg.
188876	BT4LH-TL	4.00	14.9	Natural	250
188877	BT4LH-TL0	4.00	14.9	Black	250

Minimum loop tensile strength: 120 lb.

Cable Ties

Plenum Solutions Cable Ties

PANDUIT
UL Listed for use in plenum or air-handling spaces per NEC Section 300-22 (C) and (D). Flammability Rating UL 94V-2 (HLTP/HLSP) and UL 94V-0 (PLT)

Anixter No.	Vendor No.	Description	Max. Bundle Dia. (in.)	Min. Loop Tensile Strength (lb.)	Std. Pkg.
249948	HLTP2I-X12	Loop style, hook-and-loop tie, 8.0 in., maroon	1.91	40	10
249950	HLTP3I-X12	Loop style, hook-and-loop tie, 12.0 in., maroon	3.18	40	10
249940	HLSP1.5S-X12	Strip style, hook-and-loop tie, 6.0 in., maroon	1.50	50	10
249942	HLSP3S-X12	Strip style, hook-and-loop tie, 12.0 in., maroon	3.20	50	10
249944	HLSP5S-X12	Strip style, hook-and-loop tie, 18.0 in., maroon	5.00	50	10
326471	PLT2S-M702Y	Locking tie, 7.4 in., maroon, Halar	1.88	50	1,000
326785	PLT3S-M702Y	Locking tie, 11.6 in., maroon, Halar	3.00	50	1,000

Stainless Steel Cable Ties

PANDUIT

Anixter No.	Vendor No.	Description
278768	MLT1S-CP316	304 stainless steel, standard cross section ties, length 5.0 in.
137823	MLT2S-CP	304 stainless steel, standard cross section ties, length 7.9 in.
158457	MLT4S-CP	304 stainless steel, standard cross section ties, length 14.3 in.
334481	MLT2S-CP316	316 stainless steel, heavy cross section ties, length 7.9 in.
289624	MLT4S-CP316	AISI 316 stainless steel, superior corrosion resistance cable tie
143516	MLT2H-LP	304 stainless steel, heavy cross section ties, length 7.9 in.
112181	MLT4H-LP	AISI 304 stainless steel, general purpose, heavy cross section, minimum loop tensile strength, 450 lb.
327496	MLT6H-LP	304 stainless steel, heavy cross section ties, length 20.5 in.
334484	MLT2H-LP316	316 stainless steel, heavy cross section ties, length 7.9 in.
289623	MLT4H-LP316	AISI 316 stainless steel, superior corrosion resistance cable tie
324246	MLTFC2H-LP316	Black - 316 stainless steel, heavy-cross-section ties, length 7.9 in.
283551	GS4MT	Hand tool, auto cutoff, MLTFC cross section (S, LH, H) MLTFC usage per year (under 50,000)
309409	ST2MT	Hand tool, twist cutoff, MLTFC cross section (S, LH, H, EH) MLTFC usage per year (under 10,000)

PAN-STEEL Fully Coated Stainless Steel Cable Ties

PANDUIT

FEATURES

- Polyester-coated 316-grade stainless steel
- Self-locking with low thread force
- Low-smoke, halogen-free and UV resistant
- Temperature tolerance -40°F (-40°C) to 302°F (150°C)

STAINLESS STEEL TIES - MLTFC SERIES

Anixter No.	Vendor No.	Description	Min. Loop Tensile Strength (lb.)	Max. Bundle Dia. (in.)	Std. Pkg. Qty.
324246	MLTFC2H-LP316	Black - 316 stainless steel, heavy-cross-section ties, length 7.9 in.	250	2.00	50
324247	MLTFC4H-LP316	Black - 316 stainless steel, heavy-cross-section ties, length 14.3 in.	250	4.00	50
324249	MLTFC6H-LP316	Black - 316 stainless steel, heavy-cross-section ties, length 20.5 in.	250	6.00	50
352814	MLTFC8H-LP316	Black - 316 stainless steel, heavy-cross-section ties, length 26.8 in.	250	8.00	50

STAINLESSS STEEL MARKER PLATES

Anixter No.	Vendor No.	Description	Length (in.)	Width (in.)	Std. Pkg. Qty.
PAN-MMP350-C	MMP350-C	304 stainless steel marker plate for use with standard cross section PAN-STEEL ties	3.50	0.750	100
MMP-350-C316	MMP350-C316	316 stainless steel marker plate for use with standard cross section PAN-STEEL ties	3.50	0.750	100
327512	MMP350W38-C	304 stainless steel marker plate for use with standard cross section PAN-STEEL ties	3.50	0.750	100

Provides permanent identification of pipes, conduit, valves, cables and equipment in harsh environments. Designed for use with PANDUIT PAN-STEEL stainless steel cable ties for fast installation at lowest installed cost. All marker plates can be embossed or laser etched with PANDUIT customer marking services. For on-site customer marking, use the metal indenting machine.

METAL INDENTING MACHINE

Anixter No.	Vendor No.	Description
MIM094	MIM094	Indenting machine with 3/32 in. (2.38 mm) character wheel
MIM125	MIM125	Indenting machine with 1/8 in. (3.18 mm) character wheel
MIM187	MIM187	Indenting machine with 3/16 in. (4.77 mm) character wheel

Provides quick, easy and permanent identification with PAN-STEEL stainless steel marker plates and cable ties. Automatic table indexing advanced material forward for convenience and improved productivity. New, improved design features aluminum base and durable construction.

METAL EMBOSSING HAND TOOL AND TAPE SYSTEM

Anixter No.	Vendor No.	Description
190337	NS-MEHTG	Includes tool, carrying case, one roll each META (aluminum) and METS4 (stainless steel) tape. Characters include: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 2 3 4 5 6 7 8 9 .

Creates custom length identification. Embosses 3/16 in. (4.77 mm) characters onto stainless steel and aluminum tape. Ability to create a raised cable tie slot for fast installation.

Cable Ties

4-way Adhesive Backed Cable Tie Mounts

PANDUIT

FEATURES

- Superior adhesive for long-term reliability
- Allows cable tie entry from all four sides
- Available in multiple sizes to match application load requirements
- Produced 4-up with tear tabs for fast and easy liner removal to speed installation

Anixter No.	Vendor No.	Use with Cable Tie	Description	Std. Pkg.
044500	ABMM-A-C	M, I	.75 in.; rubber adhesive, ABS	100
088703	ABMM-A-D	M, I	.75 in.; rubber adhesive, ABS	500
210631	ABMM-AT-D0	M, I	0.75 in.; acrylic adhesive, weather resistent ABS	500
119729	ABM2S-A-C	M, I, S	1 in.; rubber adhesive, ABS	100
119730	ABM2S-A-D	M, I, S	1 in.; rubber adhesive, ABS	500
210633	ABM2S-AT-D0	M, I, S	1 in.; acrylic adhesive, weather resistant ABS	500
207163	ABM100-A-C	M, I, S	1 in.; rubber adhesive, nylon 6.6	100
119725	ABM2S-AT-C	M, I, S	1 in.; acrylic adhesive, ABS	100
304284	ABM112-A-C	M, I, S	1.125 in.; rubber adhesive, nylon 6.6	100
327467	ABM112-AT-C0	M, I, S	1.125 in.; acrylic adhesive, weather resistant, nylon 6.6	100
245868	ABM3H-A-L	M, I, S, HS, LH, H, EH, HLM	1.5 in.; rubber adhesive, nylon 6.6	50
157605	ABM4H-A-L	M, I, S, HS, LH, H, EH, HLM	2.0 in.; rubber adhesive, nylon 6.6	50

Identification Products

EASY-MARK Labeling Software for Windows

PANDUIT

FEATURES

- EASY-MARK Labeling Software simplifies label creation for the specific needs of your applications
- Instructions and user interface are available in English, French, German, Italian, Spanish, Korean, Japanese, Chinese and Portuguese
- Intuitive interview process allows automatic generation of compliant labels and signs
- Software selects and formats the optimum label for your specific application
- WYSIWYG (What You See Is What You Get) user interface, alpha/numeric serialization, data import, symbol import
- Supports most Windows fonts drivers for standard thermal transfer, dot matrix, laser and ink jet, including PANDUIT thermal transfer printers

Technical Information & Standards

System Requirements:
Windows 2000, XP, Vista or Windows 7; 64 MB hard drive space and 64 MB RAM (256 MB RAM recommended)

Anixter No.	Vendor No.	Description
318489	PROG-EMCD3	EASY-MARK labeling software for Windows comes on CD-ROM. Requires 64 MB disk space
PAN-PROG-EM2GO	PROG-EM2GO	EASY-MARK portable application, USB flash drive
309288	TDP43MY	300 dpi printer with EASY-MARK labeling software
256868	S100X150VATY	Self-laminating transfer label, color white, 1 in. W x 1.50 in. L, 5,000/pk

Labeling Accessories

PANDUIT

Anixter No.	Vendor No.	Description
318489	PROG-EMCD3	EASY-MARK labeling software for Windows comes on CD-ROM. Requires 64 MB disk space
309288	TDP43MY	300 dpi printer with EASY-MARK labeling software
RMH4BL	RMH4BL	Hybrid ribbon for TDP43MY
256868	S100X150VATY	Self-laminating transfer label, color white, 1 in. W x 1.50 in. L, 5,000/pk
334680	N050X150CBT	Non-laminating label - white - vinyl cloth - 0.50 in. wide x 1.50 in. height
334681	H100X044H1T	Heat shrink label - white - polyolefin - 1.00 in. wide x 0.44 in. height
334682	C100X050YJT	Component - white - polyester - 1.00 in. wide x 0.50 in. height
334683	T400X000VU1Y	Continuous tape - orange - vinyl - 4.00 in. wide x 100 ft. length
334684	C100X038KBT	Component label - white - polyimide - 1.00 in. wide x 0.38 in. height
334687	M300X100Y7T	Marker plate - white - polyester/polyolefin - 3.00 in. wide x 1.00 height
348568	LS8E-KIT	Includes LS8E printer, one cassette of S100X150VAC self-laminating labels, six AA alkaline batteries, LS8-CASE, LS8-PCKIT, LS8-IB, LS8-WS quick reference card and operator's manual.
325932	S100X150VAC	1.00 in. x 1.50 in. x 0.50 in. for 10-6 AWG wire/cable, Cat 5e/6/6e UTP and Cat 5e FTP cable, 200/cassette
325929	H000X044F1C	White, 6.35 mm diameter heat shrinkable polyolefin
325926	C100X050YJC	White, polyester label, 100 in. wide, 50 in. long, 750/roll
334685	T100X000VUC-BK	Continuous tape - black on orange - vinyl - 1.00 in. wide x 25 ft. length
139598	S100X125VARY	Self-laminating marker dispenser, 1.0 in. x 1.5 in.
085295	PMD-0-9	Filled wire marker tape dispenser, 8 ft., RoHS
PPS0305W2100	PPS0305W2100	Pre-printed standard arc flash safety sign - 5.00 in. wide x 3.50 in. height
PVS0305W2101Y	PVS0305W2101Y	Pre-printed detailed arc flash safety sign - 5.00 in. wide x 3.50 in. height
312401	S100X150YAJ	1.00 in. x 1.50 in. x .50 in. white print-on area, polyester label, 2,500/pk

Cable Pulling and Installation

Wire Caddies and Carts

GREENLEE

MODEL 906

The 906 all-steel, welded-construction wire caddie will hold six 8 in. spools. The collapsible wire guide helps to dispense wire. Four swivel casters make movement of loaded caddie easy. Two casters lock for secure payout. Not for Cat 5 cable.

MODEL 911

The 911 all-steel, welded, tubular-constructed wire cart will hold up to six 16 in. spools. Standing 54-1/2 in. high by 27 in. wide on 8-in. polypropylene wheels, this cart will easily pass through a 28-in. doorway. The cart design allows for vertical and horizontal use. Not for Cat 5 cable.

WIRE CADDIES AND CARTS

Anixter No.	Vendor No.	Description
105202	906	Wire caddy
209745	909	Wire dispenser
105180	911	Wire cart

REEL STAND

Anixter No.	Vendor No.	Description
209743	683	Screw type reel stand 22 in. - 54 in. (558.8 - 1,372 mm)

Cable Caddy

SPOOL MASTER

This lightweight datacom cable caddy is constructed from welded steel tubing, with a 1/2 in. diameter, zinc-plated solid steel spool bar. The frame is powder-coated and folds flat without removing the spool bar. The caddy will hold one Cat 5 spool up to 16 in. wide x 20 in. diameter. It weighs only 8 lb. and has a 100 lb. capacity. Overall size is 20 in. wide x 18 1/2 in. diameter x 12 in. high.

Anixter No.	Vendor No.	Description
221578	SMP-DC-1	Cable caddy

Cable Reel Cart

SPOOL MASTER

This versatile cable reel cart can carry at least three spools of Cat 5 cable, up to 16 in. diameter x 17 in. wide. It is constructed of welded steel tubing, with 1/2 in. zinc-plated, solid steel spool bars. The cart has a powder-coated finish, 6 in. solid rubber tires and one heavy-duty handle with a vinyl grip. It has a 200 lb. capacity, weighs 32 lb. and has an overall size of 24 in. wide x 22 in. deep x 43 in. high.

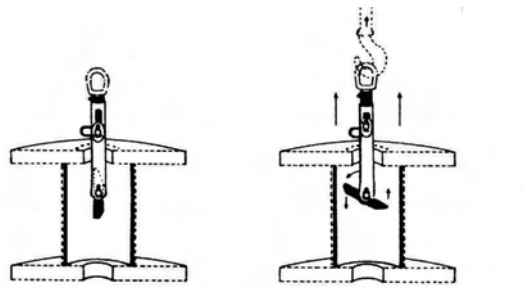
Anixter No.	Vendor No.	Description
221686	SMP-CC	Cable reel cart

Cable Pulling and Installation

The Reel Thing

TULSA POWER

Permits moving, stacking or spinning of heavy reels by one person. Available in 1- and 2-ton capacity units. Units are compact and easy to use.



Anixter No.	Vendor No.	Description
009269	RT20	1 ton for 2 in. minimum to 4 in. maximum arbor hole
009270	RT40	2 ton for 3 in. minimum to 6 in. maximum arbor hole

CableCaster

GREENLEE

The CableCaster makes installation of cable in ceilings, rafters, subfloors and other hard-to-reach areas significantly faster and easier. The CableCaster is a hand-held, dartgun-like device that can fire a dart accurately up to 50 ft. The dart carries a monofilament line from a take-up reel. The communications cable is then attached to the dart and reeled back to the installer.

FEATURES

- 50 ft. range allows for faster installations with fewer number of pulls required
- Glow-in-the-dark green darts reduce replacement costs because they are easier to relocate
- Optional flashlight improves visibility for faster installation

Anixter No.	Vendor No.	Description
209665	06186	CableCaster
212338	06259	Replacement darts
433679	FL2AAAP	Pocket-light flashlight

Tying Cord

Anixter No.	Vendor No.	Description
095017	D1006	Nine-ply waxed polyester lacing cord, approximately 200 yd
224758	04440-NAT	12-ply waxed polyester lacing cord, 675 ft. per tube

Cable Pulling and Installation

J2 Automatic Cable Lasher

GENERAL MACHINE PRODUCTS

For aerial cables up to 3 in. diameter. Can lash cable suspension strand from 1/4 in. to 7/16 in. Can be readied for dual lashing merely by depressing the strand roller knob and rotating it a quarter turn. Lasher will hold two 1,200 ft. coils of .045 in. lashing wire at one loading.

FEATURES

- Easily operable by one man
- Features built-in brake to prevent backroll
- All-range tensioning device assures traction on the strand
- Rear cable lifter assembly provides positive locking action
- Complete with pulling rope and case

J2 CABLE LASHER

Anixter No.	Vendor No.	Description
009200	86070	J2 cable lasher standard with chest

ACCESSORIES

Anixter No.	Vendor No.	Description
310460	70190	Towing lanyard 35 ft.
310461	70055	Single lashing aerial cable guide

Fish Stix

GREENLEE

Fish Stix are manufactured from fiberglass rods which are non-conductive and will fasten easily together making installation of wire over long distances (such as above ceilings, through insulated walls or under carpeting and raised floors) easy and safe.

FEATURES

- High-visibility green rods
- 1/4 in. diameter fiberglass provides added rigidity when multiple sections are connected
- 200 lb. minimum pulling strength for long-lasting durability
- Comes with bullet nose and "J" hook threaded tips

Anixter No.	Vendor No.	Description
248556	540-12	Fish Stix, 12 ft. length

Fish Poles

GREENLEE

Expandable pole designed specifically for pushing and pulling wires over long distances.

FEATURES

- Self-contained, no loose parts
- Lightweight design to minimize fatigue
- Fish Pole 18 ft. collapses to 27 in. x 2 in.
- Fish Pole 24 ft. collapses to 50 in. x 2.25 in.

FISH POLES

Anixter No.	Vendor No.	Description
307634	FP18	Fish pole 18 ft.
307635	FP24	Fish pole 24 ft.
307637	10453	Fish pole replacement hook

Cable Pulling and Installation

Poly Pull Line

GREENLEE

FEATURES

- Poly Line can be used with power fishing systems directly from the container
- Resists tangling when dispensing
- Reusable plastic dispenser pail keeps the line dry
- Rot and mildew resistant

Anixter No.	Vendor No.	Description
027006	430	6,500 ft., 210 lb. average breaking strength
184421	431	5,200 ft., 240 lb. average breaking strength
248684	37959	2,200 ft., 500 lb. average breaking strength
306299	430-500	500 ft., 210 lb. average breaking strength
223217	430R	Poly Line refill 6,500 ft. (1,981 m)

Cable-Gel Cable Pulling Lubricant

GREENLEE

Polymer-based lubricant offers lower friction and easier pulling. Compatible with all cable insulation types. Cleans up quickly. Non-staining. Higher lubricity than competitive products. Will not cement itself to the pipe. Dries slowly. Can be applied by hand or pump. Will not breakdown or separate after exposure to heat or cold. Environmentally safe/non-hazardous.

Anixter No.	Vendor No.	Description
247524	GEL-Q	1 qt squeeze bottle

Firestop

EZ-Path Firestop

SPECIFIED TECHNOLOGIES

For new or existing cable applications, EZ-Path is the easy-to-install solution for penetrating fire-rated walls and floors. This low-leakage device remains fire and leakage safe whether empty or 100 percent visually filled. Cables can be added or changed without the need to remove and reinstall firestopping materials. The compact square design (available in two sizes) provides greater cable loading than a conventional sleeve. EZ-Path devices can be installed using available single-, double-, triple-, four- and seven-gang mounting plates for additional capacity, segregation of cables and cable management. EZ-Path installations offer UL Classified floor and wall systems for up to four hours. The device is safety orange and comes with wall labels for easy identification. From installation (empty) to 100 percent visual fill, it continuously remains firestopped and compliant.

EZ-PATH DEVICES

Anixter No.	Vendor No.	Description
269611	EZDP33FWS	EZ-Path Series 33 fire-rated device kit - includes one device (3 in. x 3 in. x 10.5 in.), one pair (2) single square wall plates and labels
272522	EZD33FWS	EZ-Path Series 33 fire-rated device. Device (3 in. x 3 in. x 10.5 in.) and labels only. Does not include wall plates
269459	EZDP33WR	EZ-Path Series 33 fire-rated device retrofit kit - includes one device (3 in. x 3 in. x 10.5 in.), one pair (2) retrofit wall plates and labels
280114	EZD22	EZ-Path Series 22 fire-rated device kit - includes one series 22 device (1.5 in. x 1.5 in. x 10.5 in.), one pair (2) wall plates and labels
301389	EZDP133FK	EZ-Path Series 33 fire-rated device kit with single kick-in plate. For floor installations. Fits 4 in. core holes with no fasteners required
301390	EZDP233GK	EZ-Path Series 33 two-gang fire-rated device kit - includes two EZ-Path Series 33 fire-rated devices, one pair (2) double wall plates and labels
301393	EZDP333GK	EZ-Path Series 33 three-gang fire-rated device kit - includes three EZ-Path Series 33 fire-rated devices, one pair (2) triple wall plates and labels
301396	EZDP433GK	EZ-Path Series 33 four-gang fire-rated device kit - includes four EZ-Path Series 33 fire-rated devices, one pair (2) four-gang wall plates and labels
301400	EZDP133CAK	EZ-Path Series 33 conduit attachment fire-rated device kit - includes one EZ-Path fire-rated device, one pair (2) conduit attachment plates and labels
301398	EZDP733GK	EZ-Path Series 33 seven-gang fire-rated device kit - includes seven EZ-Path fire-rated devices, one pair (2) seven-gang mounting plates and labels
301403	EZDP133CWK	EZ-Path Series 33 fire-rated device, kit with one pair (2) circular wall plates and labels

EZ-PATH ACCESSORIES

Anixter No.	Vendor No.	Description
305967	EZD33EE	EZ-Path Series 33 extension module 6 in.
261823	EZP133W	EZ-Path Series 33 single wall plates, one pair (2)
261824	EZP233W	EZ-Path Series 33 double wall plates and labels, one pair (2)
261825	EZP333W	EZ-Path Series 33 triple wall plates and labels, one pair (2)
261826	EZP133PC	EZ-Path Series 33 positioning clamps, one pair (2). For use in new/existing cable installations using sealant
280116	EZP433W	EZ-Path Series 33 four-gang mounting wall plates and labels, one pair (2)
280117	EZP733W	EZ-Path Series 33 seven-gang mounting wall plates and labels, one pair (2)
280118	EZP133K	EZ-Path Series 33 single kick-in plate (1). For use with floor applications
280119	EZP133R	EZ-Path Series 33 retrofit mounting wall plates, one pair (2)
280120	RCM33	EZ-Path Series 33 radius control modules, one pair (2)
301405	EZP133CA	EZ-Path Series 33 conduit attachment plates, one pair (2)
301406	EZP133CW	EZ-Path Series 33 circular wall plates, one pair (2)

Firestop

SSP Series Intumescent Firestop Putty

SPECIFIED TECHNOLOGIES

FEATURES

- Nonhardening for a tough, flexible seal
- Two-stage intumescence provides aggressive expansion
- Endothermic fillers absorb heat and release water
- Highly adhesive, stays put
- Allows movement
- Water-resistant. Unaffected by humidity, condensation and water
- Soft and pliable. Easy to install
- Sound deadening. Tested and proven acoustical properties
- UL Classified and FM approved

Anixter No.	Vendor No.	Description
264618	SSP100	36 cu. in. (0.6 L) tube of putty
264619	SSP4S	Putty pad; 7.25 in. x 7.25 in. x 3/16 in.
280121	SSP28	24 cu. in. putty round bar
264620	SSP9S	Putty pad; 9 in. x 9 in. x 3/16 in.
301260	EP44	Electrical box insert; 3 3/4 in. x 3 3/4 in. x 1/8 in. pad

Firestop Moldable Putty+

3M

A re-enterable firestop for all types of cable and conduit penetrations. Comes in pad form for electrical box outlet protection. Remains pliable and flexible after it is installed. No tools required. Age-tested and UL Classified.

Anixter No.	Vendor No.	Description
174609	MP+	1.5 in. x 12 in. putty stick
125441	MPP+4X8	4 in. x 8 in. pad
270020	MPP+7X7	7 in. x 7 in. putty pad
309232	MPP+9.5X9.5	9.5 in. X 9.5 in. putty pad

Firestop

SSB Series Intumescent Firestop Pillow

SPECIFIED TECHNOLOGIES

FEATURES

- Intumescent: expands in all directions for a tough, tight seal
- Reinstallable for easy retrofitting of cables
- Single side application makes installation easy for tough access openings
- Intumescent coating on all sides for faster expansion and easier installation
- Heat-sealed poly cover protects core and makes pillows slide in and out with ease
- Superior air leakage ratings
- Broad base of tested systems
- UL Classified and FM approved

Anixter No.	Vendor No.	Description
264621	SSB14	1 in. x 4 in. x 9 in. firestop pillow
264622	SSB24	2 in. x 4 in. x 9 in. firestop pillow
264623	SSB26	2 in. x 6 in. x 9 in. firestop pillow
264624	SSB36	3 in. x 6 in. x 9 in. firestop pillow

Fire Barrier Pillows

3M

The 3M Fire Barrier Pillow is a self-contained, highly intumescent product designed to firestop a wide variety of through-penetrations including cable trays, (up to two per opening), conduit and blank openings, which penetrate fire-rated construction. During a fire, 3M Fire Barrier Pillow intumesces (expands) and locks itself into place completely surrounding the penetrants, stopping smoke, fire and toxic gases from spreading to the next room or next floor for the rated time period.

3M Fire Barrier Pillows are also available in self-locking models for increased ease of use and ability to lock them in place for larger openings. They offer an abrasion-resistant surface for enhanced reuse. The self-locking models are identified with the SL suffix.

STANDARD PILLOWS

Anixter No.	Vendor No.	Description
247363	FB249	2 in. x 4 in. x 9 in.
247364	FB269	2 in. x 6 in. x 9 in
247365	FB369	3 in. x 6 in. x 9 in.

SELF-LOCKING PILLOWS

Anixter No.	Vendor No.	Description
282601	FB249-SL	2 in. x 4 in. x 9 in. - self locking
282602	FB269-SL	2 in. x 6 in. x 9 in. - self locking
282603	FB369-SL	3 in. x 6 in. x 9 in. - self locking

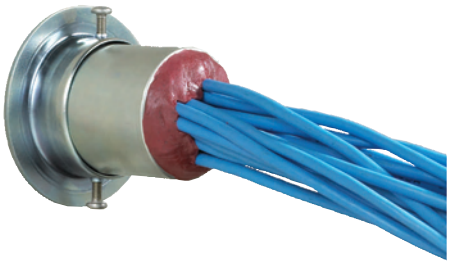
Wrap/Sealant

Ready Sleeve Firestop Sleeve

SPECIFIED TECHNOLOGIES

FEATURES

- Economical - significant material and labor savings vs. field fabrication
- Ready to install "out of the box" firestop sleeve kit - kit comes complete with no additional parts required
- No external firestop seal required - factory supplied intumescent firestop gasket
- UL Classified and code compliant
- For rated and non-rated barriers
- Available in three sizes - 1 in., 2 in. and 4 in.



READY SLEEVE FIRESTOP SLEEVE

Anixter No.	Vendor No.	Description
305968	FS100	1 in. firestop sleeve kit: includes one 1 in. (25 mm) sleeve, two standard-size escutcheon plates, two firestop gaskets, firestop putty and labels
305969	FS200	2 in. firestop sleeve kit: includes one 2 in. (51 mm) sleeve, two standard-size escutcheon plates, two firestop gaskets, firestop putty and labels
305970	FS400	4 in. firestop sleeve kit: includes one 4 in. (102 mm) sleeve, two standard-size escutcheon plates, two firestop gaskets, firestop putty and labels

CS-195+ Fire Barrier Composite Sheet

3M

An intumescent sheet which is ideal for all types of telecommunications applications. It expands up to ten times its original size to form a seal against smoke, fire and water. The sheet is cut to fit and fastened to the substrate using common trade tools. UL Classified. Documented aging properties to ensure the product performs and lasts as long as the structure. The composite sheet is also available in various sizes. Please contact your local sales respresentative for more information.

Anixter No.	Vendor No.	Description
167253	CS-195+/BX36X24	36 in. x 24 in. size
218398	CS-195+/BX36X36	36 in. x 36 in. size
309235	CS-195+/BX16X28	16 in. x 28 in. size
309236	CS-195+/BX36X41	36 in. x 41 in. size

FS-195+ Wrap/Strip

3M

One part intumescent and elastomeris strip which can be cut to fit irregular shapes. Used to seal and firestop inner duct and cable bundle penetrations. Documented aging properties to ensure the product performs and lasts as long as the structure. UL Classified.

Anixter No.	Vendor No.	Description
167252	FS-195+	Fire barrier 2 in. x 24 in. wrap/strip - resistive strip cut to fit firestop

Wrap/Sealant

SSS Series Intumescent Firestop Sealant

SPECIFIED TECHNOLOGIES

FEATURES

- Water-based for easy installation, cleanup and disposal
- Two-stage intumescence features extremely fast and directionalized expansion
- Remains flexible
- Sandable and paintable when dry
- Water-resistant. Will not re-emulsify when dry
- Red for easy identification and inspection
- Excellent smoke seal
- Low VOCs. No solvents
- Over 250 UL Classified systems and FM approved

Anixter No.	Vendor No.	Description
264609	SSS100	10.1 oz tube (300 ml) 18.2 cu. in.
264610	SSS129	29 oz tube (858 ml) 52 cu.in.
264612	SSS102	2 gallon pail (7.6 L) 462 cu. in.
264611	SSS120	20 oz sausage (592 ml) 36 cu. in.
264613	SSS105	5 gallon pail (19 L) 1,155 cu. in.

Electrical Tape

Scotch 35 Vinyl Plastic Electrical Tape For Color Coding

3M

3/4 IN. WIDE X 66 FT. LONG

Anixter No.	Vendor No.	Description
009592	35-GREEN-3/4	Green
009593	35-BLUE-3/4	Blue
009594	35-ORANGE-3/4	Orange
009595	35-VIOLET-3/4	Violet
009596	35-BROWN-3/4	Brown
009597	35-YELLOW-3/4	Yellow
009598	35-RED-3/4	Red
009599	35-WHITE-3/4	White
009600	35-GRAY-3/4	Gray

1/2 IN. WIDE X 20 FT. LONG

Anixter No.	Vendor No.	Description
009579	35-BLUE-1/2	Blue
009583	35-GRAY-1/2	Gray
009585	35-GREEN-1/2	Green
078459	35-RED-1/2	Red
078461	35-WHITE-1/2	White
132456	35-ORANGE-1/2	Orange

Scotch 27 Glass Cloth Backed Electrical Tape

3M

Whenever temperature or strength is especially important in taping, 27 tape provides a stable rugged binding. Glass cloth backing will not shrink, rot or burn.

Anixter No.	Vendor No.	Description
030731	27	1 in. x 36 yd

Electrical Tape

Scotch All-weather Electrical Tape

3M

This premium-grade, heavy-duty, flame-retardant, weather-resistant tape features superior cold-weather handling.

Anixter No.	Vendor No.	Description
009616	33+SUPER-3/4X66FT	3/4 in. x 66 ft. roll, black
021906	88T .75X36	3/4 in. x 36 ft. roll, black
009618	88T-0.75X60	3/4 in. x 60 ft. roll, black
024323	88T 1X36	1 in. x 36 ft. roll, black
009638	88T-1.5X44	1 1/2 in. x 44 ft. roll, black

Insulating Products

PLYMOUTH

VINYL PLASTIC TAPES

Anixter No.	Vendor No.	Roll Size	Description
009628	4472	3/4 in. x 0.007 in. x 66 ft.	Premium 111 gray

FRICTION TAPES

Anixter No.	Vendor No.	Roll Size	Description
055953	1039	2 in. x 60 ft.	100 ASTM black friction tape
009604	1012	3/4 in. x 82 ft.	100 ASTM black friction tape (old #8)

RUBBER TAPES

Anixter No.	Vendor No.	Roll Size	Description
055489	2011	3/4 in. x 0.045 in. x 15 ft.	Double rubber DR
035301	2013	2 in. x 0.045 in. x 15 ft.	Double rubber DR tape
055486	2065	28 in. x 0.050 in. x 20 ft.	Cohesive rubber CR tape for temporary splice

Fish Tape/Paper

Fish Tape

GREENLEE

FEATURES

- Self-tensioning case for easy tape winding
- Wide, impact-resistant rewinder case with viewports to ensure tape fit and retaining strap on inside to hold tape secure
- Dirt-free tape finish keeps hands cleaner during use

KWIK SILVER STEEL FISH TAPE

Anixter No.	Vendor No.	Description
238750	FTS438-65	Steel fish tape 1/8 in. x 50 ft.
247522	FTS438-125	Steel fish tape 1/8 in. x 200 ft.
247523	FTS438-240	Steel fish tape 1/8 in. x 240 ft. in winder case

High-impact nylon, one-piece handle for maximum durability, long life, and easy, comfortable use. Large handle grip for greater user control. Self-tensioning case for easy tape winding. (No tension trigger.) Wide, impact-resistant rewinder case with viewports to ensure tape fit and retaining strap on inside to hold tape secure. Dirt-free tape finish keeps hands cleaner during use.

FIBERGLASS FISH TAPE

Anixter No.	Vendor No.	Description
309082	FTF540-50	50 ft. x 0.175 in. fiberglass fish tape in winder case
309083	FTF540-100	100 ft. x 0.175 in. fiberglass fish tape in winder case
309084	542-150	150 ft. x 3/16 in. fiberglass fish tape in reel stand
309085	542-200	200 ft. x 3/16 in. fiberglass fish tape in reel stand
309086	542-250	250 ft. x 3/16 in. fiberglass fish tape in reel stand

12 in. (305 mm) case has high-impact nylon, one-piece handle for maximum durability, long life, and easy, comfortable use. Non-conductive fiberglass tape with low friction coating. Has unique non-coiling properties that enable it to fish in large and small conduit equally well, even with wire or cable in place. Exclusive, unique, lightweight reel for easy positive feed out and rewind. Excellent for installation of telecommunications and data communications cables in overhead plenums, above suspended ceilings and under floors. Fiberglass fish tape is the fastest manual fish tape available. It is intended for fishing only. Rope or line is recommended for pulling.

Consumables

Cleaning Wipes and Solutions

Anixter No.	Vendor No.	Vendor	Description
105044	HS-1	Polywater	Hydrasol Towelettes for cleaning gel filling, icky-pic, and pulling-lube from cable and fibers
033841	4414	3M Telcom	Pack of 15 saturated pads, five scraping pads and 10 towelettes to clean icky-pic and gel filling from cable
046108	GRDW	L P S Laboratories	D-Gel 8 in. x 11 in. lint-free saturated towel
104515	TX304A	ACCTECH	Pack of 300 4 in. x 4 in. cleaning cloths to be used on bare fiber
123683	HS-16LR	Polywater	Hydrasol liquid in a 16 oz spray bottle
105043	HS-96	Polywater	Hydrasol liquid in a 1 gal jug
106837	D181599	CS-COMMSCOPE	Pack of 250 lint-free wipes to be used on bare fiber
238502	FO-1	Polywater	Isopropanol alcohol wipe

B-Sealant

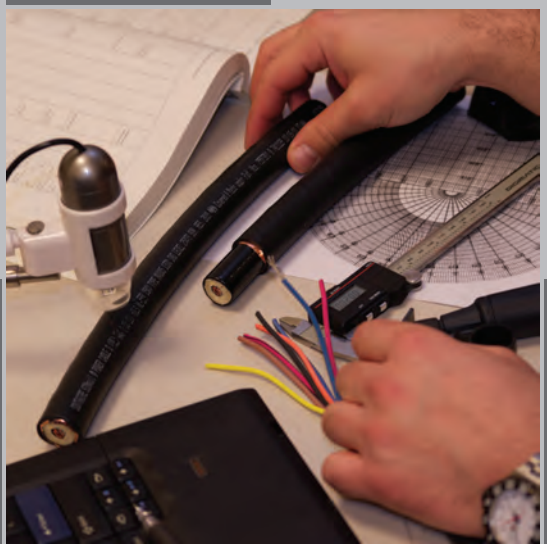
B-Sealant is a thixotropic one-component silicone elastomer vulcanizing at room temperature. This product is recommended for the primary protection of optical fibers, semiconductors and electronic components, packing of conductors, and insulation of electrical connecting devices, and as flexible adhesive for assemblies sensitive to vibrations.

Anixter No.	Vendor No.	Description
288385	Q-TEL2052-3	3 oz tube

Canned Air

Anixter No.	Vendor No.	Vendor	Description
194778	RR3509	ACCTECH	10 oz canned air refill
194588	RR3508	ACCTECH	10 oz canned air with valve assembly
128594	19-8475	Thorsen	12 oz canned air with nozzle

16



Technical Information and Glossary

Conductors

CONDUCTORS

The conductor is the metallic component of cables through which electrical power or electrical signals are transmitted. Conductor size is usually specified by American Wire Gauge (AWG), circular mil area or in square millimeters.

AWG

The American Wire Gauge (sometimes called Brown and Sharpe or B and S) is used almost exclusively in the USA for copper and aluminum wire. The Birmingham Wire Gauge (BWG) is used for steel armor wire.

The diameters according to the AWG are defined as follows: the diameter of size 4/0 (sometimes written 0000) equals 0.4600 inch and that of size #36 equals 0.0050 inch; the intermediate sizes are found by geometric progression. That is, the ratio of the diameter of one size to that of the next smaller size (larger gauge number) is:

$$\sqrt[39]{\frac{0.4600}{0.0050}} = 1.122932$$

Circular Mil

Sizes larger than 4/0 are specified in terms of the total area of a cross-section of the copper in circular mils (cmil). A circular mil is a unit of area equal to the area of a circle one mil in diameter. It is $\pi/4$ (equal to 0.7854) of a square mil (one mil = 0.001 inch). The area of a circle in circular mils is therefore equal to the square of its diameter in mils. A solid wire one inch in diameter has an area of 1,000,000 cmils, whereas one square inch equals $4/\pi \times 1{,}000{,}000$ cmils (equal to 1,273,200 cmils).

Square Millimeters

Metric sizes are given in terms of square millimeters (mm^2).

Conductor Characteristics

Relative electrical and thermal conductivities of common metal conductors are as follows:

Table 1–Relative electrical and thermal conductivities of common conductor materials

Metal	Relative Electrical Conductivity at 20°C	Relative Thermal Conductivity at 20°C
Silver	106	108
Copper (annealed)	100	100
Copper (hard drawn)	97	–
Gold	72	76
Aluminum	62	56
Magnesium	39	41
Zinc	29	29
Nickel	25	15
Cadmium	23	24
Cobalt	18	17
Iron	17	17
Platinum	16	18
Tin	15	17
Steel	12	–
Lead	8	9

Conductors

STRAND TYPES

Concentric Strand

A concentric stranded conductor consists of a central wire or core surrounded by one or more layers of helically-laid wires. Each layer after the first has six more wires than the preceding layer. Except in compact stranding, each layer is usually applied in a direction opposite to that of the layer under it.

If the core is a single wire and if it and all of the outer strands have the same diameter, the first layer will contain six wires; the second, twelve; the third, eighteen; etc.

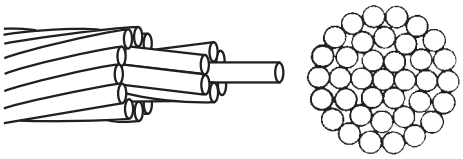


Figure 1–Concentric strand

Bunch Strand

The term bunch stranding is applied to a collection of strands twisted together in the same direction without regard to the geometric arrangement.

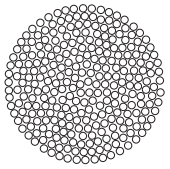


Figure 2–Bunch strand

Rope Strand

A rope stranded conductor is a concentric stranded conductor each of whose component strands is itself stranded. A rope stranded conductor is described by giving the number of groups laid together to form the rope and the number of wires in each group.

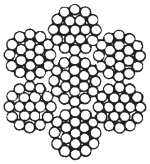


Figure 3–Rope strand

Sector Conductor

A sector conductor is a stranded conductor whose cross-section is approximately the shape of a sector of a circle. A multiple-conductor insulated cable with sector conductors has a smaller diameter than the corresponding cable with round conductors.

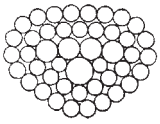


Figure 4–Sector conductor

Segmental Conductor

A segmental conductor is a round, stranded conductor composed of three or four sectors slightly insulated from one another. This construction has the advantage of lower AC resistance (less skin effect).

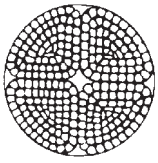


Figure 5–Segmental conductor

Annular Conductor

An annular conductor is a round, stranded conductor whose strands are laid around a suitable core. The core is usually made wholly or mostly of nonconducting material. This construction has the advantage of lower total AC resistance for a given cross-sectional area of conducting material by eliminating the greater skin effect at the center.

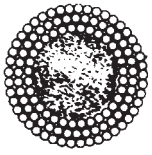


Figure 6–Annular conductor

Compact Strand

A compact stranded conductor is a round or sector conductor having all layers stranded in the same direction and rolled to a predetermined ideal shape. The finished conductor is smooth on the surface and contains practically no interstices or air spaces. This results in a smaller diameter.

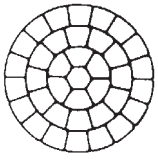


Figure 7–Compact strand

Conductors

Compressed Strand

Compressed conductors are intermediate in size between standard concentric conductors and compact conductors. A comparison is shown below:

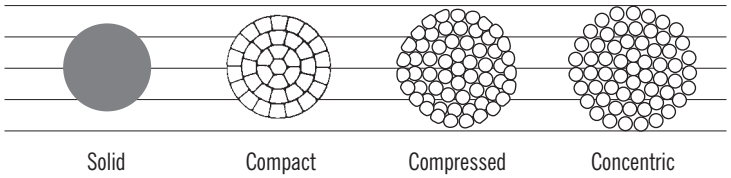


Figure 8–Comparative sizes and shapes of 1,000 kcmil conductors

In a concentric stranded conductor, each individual wire is round and considerable space exists between wires. In a compressed conductor, the conductor has been put through a die that "squeezes out" some of the space between wires. In a compact conductor each wire is preformed into a trapezoidal shape before the wires are stranded together into a finished conductor. This results in even less space between wires. A compact conductor is, therefore, the smallest in diameter (except for a solid conductor, of course). Diameters for common conductor sizes are given in the table below.

Table 2–Diameters for copper and aluminum conductors

Conductor Size		Nominal Diameters (in.)			
(AWG)	(kcmil)	Solid	Class B Compact	Class B Compressed	Class B Concentric
8	16.51	0.1285	0.134	0.141	0.146
6	26.24	0.1620	0.169	0.178	0.184
4	41.74	0.2043	0.213	0.225	0.232
3	52.62	0.2294	0.238	0.252	0.260
2	66.36	0.2576	0.268	0.283	0.292
1	83.69	0.2893	0.299	0.322	0.332
1/0	105.6	0.3249	0.336	0.361	0.373
2/0	133.1	0.3648	0.376	0.406	0.419
3/0	167.8	0.4096	0.423	0.456	0.470
4/0	211.6	0.4600	0.475	0.512	0.528
–	250	0.5000	0.520	0.558	0.575
–	300	0.5477	0.570	0.611	0.630
–	350	0.5916	0.616	0.661	0.681
–	400	0.6325	0.659	0.706	0.728
–	450	0.6708	0.700	0.749	0.772
–	500	0.7071	0.736	0.789	0.813
–	550	0.7416	0.775	0.829	0.855
–	600	0.7746	0.813	0.866	0.893
–	650	0.8062	0.845	0.901	0.929
–	700	0.8367	0.877	0.935	0.964
–	750	0.8660	0.908	0.968	0.998
–	800	0.8944	0.938	1.000	1.031
–	900	0.9487	0.999	1.061	1.093
–	1,000	1.0000	1.060	1.117	1.152

Sources: ASTM B8 and B496
ICEA S-95-658 (NEMA WC-70)

Conductors

COATINGS

There are three materials commonly used for coating a copper conductor. These are tin, silver and nickel.

Tin is the most common and is used for improved corrosion resistance and solderability.

Silver plated conductors are used in high-temperature environments (150°C–200°C). It is also used for high-frequency applications where silver's high conductivity (better than copper) and the "skin effect" work together to reduce attenuation at high frequencies.

Nickel coatings are used for conductors that operate between 200°C and 450°C. At these high temperatures, copper oxidizes rapidly if not nickel plated. One drawback of nickel, however, is its poor solderability.

Class B, C and D Copper Strand

Table 3–Class B concentric-lay-stranded copper conductors

Size	Number of Wires	Diameter of Each Strand	Weight	Nominal Overall Diameter
(AWG or kcmil)		(mils)	(lb./1,000 ft.)	(in.)
5,000	217	151.8	15,890	2.58
4,500	217	144	14,300	2.45
4,000	217	135.8	12,590	2.31
3,500	169	143.9	11,020	2.16
3,000	169	133.2	9,353	2.00
2,500	127	140.3	7,794	1.82
2,000	127	125.5	6,175	1.63
1,900	127	122.3	5,866	1.59
1,800	127	119.1	5,558	1.55
1,750	127	117.4	5,402	1.53
1,700	127	115.7	5,249	1.50
1,600	127	112.2	4,940	1.46
1,500	91	128.4	4,631	1.41
1,400	91	124.0	4,323	1.36
1,300	91	119.5	4,014	1.32
1,250	91	117.2	3,859	1.30
1,200	91	114.8	3,705	1.26
1,100	91	109.9	3,396	1.21
1,000	61	128.0	3,088	1.15
900	61	121.5	2,779	1.09
800	61	114.5	2,470	1.03
750	61	110.9	2,316	1.00
700	61	107.1	2,161	0.964
650	61	103.2	2,007	0.929
600	61	99.2	1,853	0.893
550	61	95.0	1,698	0.855
500	37	116.2	1,544	0.813
450	37	110.3	1,389	0.772
400	37	104.0	1,235	0.728
350	37	97.3	1,081	0.681
300	37	90.0	926.3	0.630
250	37	82.2	711.9	0.575
4/0	19	105.5	653.3	0.528

Continued on next page >>

Conductors

Table 3–Class B concentric-lay-stranded copper conductors (continued)

Size	Number of Wires	Diameter of Each Strand	Weight	Nominal Overall Diameter
(AWG or kcmil)		(mils)	(lb./1,000 ft.)	(in.)
3/0	19	94.0	518.1	0.470
2/0	19	83.7	410.9	0.419
1/0	19	74.5	325.8	0.373
1	19	66.4	258.4	0.332
2	7	97.4	204.9	0.292
3	7	86.7	162.5	0.260
4	7	77.2	128.9	0.232
5	7	68.8	102.2	0.206
6	7	61.2	81.05	0.184
7	7	54.5	64.28	0.164
8	7	48.6	50.97	0.146
9	7	43.2	40.42	0.130
10	7	38.5	32.06	0.116
12	7	30.5	20.16	0.0915
14	7	24.2	12.68	0.0726
16	7	19.2	7.974	0.0576
18	7	15.2	5.015	0.0456
20	7	12.1	3.154	0.0363

Source: ASTM B8 Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft

Conductors

Stranding, Diameter, Area, DC Resistance and Weight (20 AWG Through 2,000 kcmil)

Table 4–Copper conductor stranding, diameter, area, weight and DC resistance

Nominal Area		Size	Number/Diameter of Individual Wires		Overall Diameter		Nominal Weight		DC Resistance at 20°C (68°F)	
(mm^2)	(cmils)	(AWG)	(in.)	(mm)	(in.)	(mm)	(lb./1,000 ft.)	(kg/km)	(ohms/1,000 ft.)	(ohms/km)
0.50	987	–	1/0.032	1/0.613	0.032	0.81	3.100	4.613	10.13	32.33
–	1,020	20	7/0.0121	7/0.307	0.036	0.91	3.157	4.098	10.22	33.77
0.75	1,480	–	1/0.036	1/0.991	0.039	0.99	4.603	6.851	6.820	22.37
–	1,620	18	1/0.403	1/1.02	0.040	1.02	4.917	7.316	6.387	20.95
–	1,620	18	7/0.0152	7/0.386	0.046	1.16	4.980	7.410	6.523	21.40
1.0	1,970	–	1/0.045	1/1.14	0.045	1.14	6.130	9.122	5.127	16.80
1.0	1,970	–	7/0.017	7/0.432	0.051	1.30	6.293	9.266	5.213	17.11
–	2,580	16	1/0.0508	1/1.29	0.061	1.29	7.810	11.63	4.020	13.19
–	2,580	16	7/0.0192	7/0.488	0.058	1.46	7.877	11.82	4.087	13.41
1.5	2,960	–	1/0.055	1/1.40	0.055	1.40	9.157	13.63	3.430	11.25
1.5	2,960	–	7/0.021	7/0.533	0.063	1.60	8.837	14.14	3.417	11.21
–	4,110	14	1/0.641	1/1.63	0.064	1.63	12.44	18.51	2.524	8.281
–	4,110	14	7/0.0242	7/0.615	0.073	1.84	12.62	18.78	2.573	8.442
2.5	4,930	–	1/0.071	1/1.80	0.071	1.80	15.26	22.71	2.057	6.750
2.5	4,930	–	7/0.027	7/0.686	0.081	2.06	15.71	23.38	2.067	6.782
–	6,530	12	1/0.0808	1/2.05	0.081	2.05	19.76	29.41	1.589	5.212
–	6,530	12	7/0.0305	7/0.755	0.092	2.32	20.05	29.84	1.620	5.315
4	7,890	–	1/0.089	1/2.26	0.089	2.26	23.98	35.68	1.309	4.296
4	7,890	–	7/0.034	7/0.864	0.102	2.59	24.91	37.08	1.304	4.277
–	10,380	10	1/0.1019	1/2.59	0.102	2.59	31.43	46.77	0.999	3.277
–	10,380	10	7/0.0385	7/0.978	0.116	2.93	31.94	47.54	1.017	3.335
6	11,800	–	1/0.109	1/2.77	0.109	2.77	35.97	53.52	0.8730	2.864
6	11,800	–	7/0.042	7/0.107	0.126	3.21	38.00	56.55	0.8543	2.803
–	13,090	9	1/0.1144	7/2.91	0.1144	2.91	39.60	58.93	0.7923	2.600
–	13,090	9	7/0.0432	7/1.10	0.130	3.30	40.23	59.86	0.8073	2.649
–	16,510	8	1/0.1285	1/3.26	0.128	3.26	50.17	74.36	0.6147	2.061
–	16,510	8	7/0.0486	7/1.23	0.146	3.70	50.90	75.75	0.6380	2.093
10	19,700	–	1/0.141	1/3.58	0.141	3.58	60.17	89.54	0.5217	1.711
10	19,700	–	7/0.054	7/1.37	0.162	4.12	62.83	93.51	0.5167	1.695
–	20,820	7	1/0.1443	1/3.67	0.144	3.67	63.03	93.80	0.4980	1.634
–	20,820	7	7/0.0545	7/1.38	0.164	4.15	64.00	95.24	0.5073	1.664
–	26,240	6	1/0.162	1/4.11	0.162	4.11	79.43	118.2	0.3950	1.296
–	26,240	6	7/0.0612	7/1.55	0.184	4.66	80.73	120.1	0.4023	1.320
16	31,600	–	7/0.068	7/1.73	0.204	5.18	99.67	148.3	0.3259	1.069
–	33,090	6	7/0.0688	7/1.75	0.206	5.24	102.0	151.8	0.3183	1.044
–	41,740	4	7/0.0772	7/1.96	0.232	5.88	128.4	191.1	0.2528	0.8295
25	49,300	–	7/0.065	7/2.16	0.255	6.48	155.7	231.7	0.2176	0.6843
–	52,620	3	7/0.0867	7/2.20	0.260	6.61	162.0	241.1	0.2005	0.6577
35	69,100	–	7/0.100	7/2.54	0.300	7.62	215.5	320.7	0.1507	0.4944
35	69,100	–	19/0.061	19/1.55	0.305	7.75	218.1	324.5	0.1495	0.4909

Continued on next page >>

Conductors

Table 4–Copper conductor stranding, diameter, area, weight and DC resistance (continued)

Nominal Area		Size	Number/Diameter of Individual Wires		Overall Diameter		Nominal Weight		DC Resistance at 20°C (68°F)	
(mm^2)	(cmils)	(AWG)	(in.)	(mm)	(in.)	(mm)	(lb./1,000 ft.)	(kg/km)	(ohms/1,000 ft.)	(ohms/km)
–	83,690	1	19/0.0664	19/1.63	0.332	8.43	258.4	384.5	0.1261	0.4139
50	98,700	–	19/0.073	19/1.85	0.365	9.27	312.3	464.8	0.1044	0.3424
–	105,400	1/0	19/0.0745	19/1.89	0.373	9.46	325.3	484.1	0.10020	0.3288
–	133,100	2/0	19/0.0837	19/2.13	0.419	10.6	410.7	611.1	0.07940	0.2605
70	138,000	–	19/0.086	19/2.18	0.430	10.9	433.3	645.0	0.07520	0.2467
–	167,800	3/0	19/0.094	19/2.39	0.470	11.9	517.7	770.4	0.06293	0.2065
–	167,800	3/0	37/0.0673	37/1.71	0.471	12.0	517.0	769.4	0.06310	0.2070
95	187,000	–	19/0.101	19/2.57	0.505	12.8	597.7	889.4	0.05453	0.1789
–	211,600	4/0	19/0.1055	19/2.68	0.528	13.4	652.3	970.8	0.04997	0.1639
120	237,000	–	37/0.0811	37/0.0811	0.567	14.4	749.0	1,115	0.04357	0.1429
–	250,000	–	37/0.0822	37/0.0822	0.575	14.6	771.3	1,148	0.04230	0.1388
150	300,000	–	37/0.090	37/2.29	0.630	16.0	924.7	1,376	0.03527	0.1157
–	350,000	–	37/0.0973	37/2.47	0.681	17.3	1,081	1,609	0.03018	0.09903
185	365,000	–	37/0.100	37/2.54	0.700	17.8	1,142	1,699	0.02857	0.09375
–	400,000	–	37/0.104	37/2.64	0.728	18.5	1,235	1,838	0.02642	0.06668
240	474,000	–	37/0.114	37/2.90	0.798	20.3	1,484	2,206	0.02199	0.07214
240	474,000	–	61/0.089	61/2.26	0.801	20.3	1,491	2,219	0.02189	0.07181
–	500,000	–	37/0.1162	37/2.95	0.813	20.7	1,608	2,294	0.02116	0.06943
–	500,000	–	61/0.0905	61/2.30	0.814	20.7	1,549	2,295	0.02117	0.06944
300	592,000	–	61/0.099	61/2.51	0.891	22.6	1,842	2,746	0.02102	0.05803
–	600,000	–	61/0.0992	61/2.52	0.893	22.7	1,853	2,757	0.01762	0.05780
–	700,000	–	61/0.1071	61/2.72	0.964	24.5	2,160	3,214	0.01511	0.04959
–	750,000	–	61/0.1109	61/2.82	0.998	25.4	2,316	3,446	0.01410	0.04625
–	750,000	–	91/0.0908	91/2.31	0.999	25.4	2,316	3,447	0.01410	0.04625
400	789,000	–	61/0.114	61/2.90	1.026	26.1	2,447	3,642	0.01334	0.04377
–	800,000	–	61/0.1145	61/2.91	1.031	26.2	2,468	3,673	0.01322	0.04338
–	800,000	–	91/0.0938	91/2.38	1.032	26.2	2,471	3,678	0.01321	0.04334
500	1,000,000	–	61/0.1280	61/3.25	1.152	29.3	3,085	4,590	0.01058	0.03472
–	1,000,000	–	91/0.1048	91/2.66	1.153	29.3	3,085	4,591	0.01058	0.03472
625	1,234,000	–	91/0.117	91/2.97	1.287	32.7	3,845	5,722	0.00849	0.02786
–	1,250,000	–	91/0.1172	91/2.98	1.289	32.7	3,858	5,742	0.008460	0.02776
–	1,250,000	–	127/0.0992	127/2.52	1.290	32.8	3,858	6,741	0.008463	0.02777
–	1,500,000	–	91/0.1284	91/3.26	1.412	35.9	4,631	6,892	0.007050	0.02313
–	1,500,000	–	127/0.1087	127/2.76	1.413	35.9	4,632	6,894	0.007183	0.02312
800	1,580,000	–	91/0.132	91/3.35	1.452	36.9	4,894	7,284	0.006670	0.02188
1,000	1,970,000	–	91/0.147	91/3.73	1.617	41.1	6,070	9,033	0.005380	0.01765
–	2,000,000	–	127/0.1255	127/3.19	1.632	41.5	6,175	9,189	0.005287	0.01735
–	2,000,000	–	169/0.1088	169/2.76	1.632	41.5	6,176	9,191	0.005287	0.01735

Based on British (BSA), Canadian (CSA), American (ASTM and ICEA) and German (VDE) Standards

Insulation and Jacket Materials

Conductors need to be electrically isolated from other conductors and from the environment to prevent short circuits. Insulation is applied around a conductor to provide this isolation. Most wire and cable insulations consist of polymers (plastics), which have a high resistance to the flow of electric current. A jacket is the outermost layer of a cable whose primary function is to protect the insulation and conductor core from external physical forces and chemical deterioration.

TYPES AND APPLICATIONS

Thermoplastics

Chlorinated Polyethylene (CPE)
CPE is one of the few polymers available in both thermoplastic and thermoset (cross-linked) versions. As a rule, thermoset formulations have better high-temperature properties than thermoplastics but are also higher in cost. Thermoplastic CPE is more common than thermoset CPE.

Polyvinyl Chloride (PVC)
Sometimes referred to simply as "vinyl," PVC does not usually exhibit extremely high- and low-temperature properties in one formulation. Certain formulations may have a -55°C to 105°C rating, while other common vinyls may have a -20°C to 60°C rating. The many varieties of PVC also differ in pliability and electrical properties. The price range can vary accordingly. Typical dielectric constant values range from 3.5 to 6.5.

When properly formulated, thermoplastic jackets of PVC provide cables with the ability to resist oils, acids, alkalis, sunlight, heat, weathering and abrasion. This range of properties makes PVC a suitable outer covering for such cable types as underground feeders (Type UF), control, aerial, street lighting and cables for direct burial.

PVC is frequently used as an impervious jacket over and/or under metal armor where the installation requires PVC's protective characteristics. Flamarrest is a plenum grade, PVC-based jacketing material with low smoke and low flame spread properties. Plenum-rated cables jacketed with Flamarrest meet NFPA 262 (formerly UL Standard 910).

Fluoropolymers
Fluoropolymers, with the exception of PTFE Teflon (sometimes called TFE), are extrudable thermoplastics used in a variety of low-voltage insulating situations. Fluoropolymers contain fluorine in their molecular composition, which contributes to their excellent thermal, chemical, mechanical and electrical characteristics. The most commonly used fluoropolymers are Teflon (PTFE, FEP and PFA), Tefzel (ETFE), Halar (ECTFE) and Kynar or Solef (PVDF).

Teflon has excellent electrical properties, temperature range and chemical resistance. It is not suitable where subjected to nuclear radiation and does not have good high-voltage characteristics. FEP Teflon is extrudable in a manner similar to PVC and polyethylene. This means that long wire and cable lengths are available. PTFE Teflon is extrudable in a hydraulic ram type process. Lengths are limited due to the amount of material in the ram, thickness of the insulation and preform size. PTFE must be extruded over a silver- or nickel-coated wire. The nickel- and silver-coated designs are rated 260°C and 200°C maximum, respectively. The cost of Teflon is approximately 8 to 10 times more per pound than PVC compounds.

Teflon PTFE is the original Teflon resin invented by DuPont in 1938. It is an opaque, white material, although some forms are translucent in thin sections. It does not melt in the usual sense. To coat wire for insulating purposes, Teflon PTFE is extruded around the conductor as a paste, then sintered. Conductors can also be wrapped with tape of Teflon PTFE. Maximum continuous service temperature of Teflon PTFE is 260°C (500°F).

Specific advantages of wire insulated with Teflon PTFE include:

- Nonflammability
- Extremely high insulation resistance
- Very low dielectric constant
- Small size compared to elastomer insulated wires
- Excellent lubricity for easier installation
- Chemical inertness.

Insulation and Jacket Materials

Teflon FEP was also invented by DuPont and became commercially available in 1960. It has a glossy surface and is transparent in thin sections. Teflon FEP is a true thermoplastic. Wire insulated with Teflon FEP can be melt extruded by conventional methods. Maximum continuous service temperature is 400°F (205°C). Teflon FEP is an excellent nonflammable jacketing material for multiconductor cables.

Specific advantages of wire insulated with Teflon FEP include:

- High current carrying ability (ampacity)
- Easy color coding
- Smallest diameter of any high-temperature wire
- Nonflammability
- Very low moisture absorption.

Teflon PFA is a perfluoroalkoxy copolymer resin supplied by DuPont. Wire insulated with PFA is rated up to 250°C (482°F) and has excellent high-temperature creep resistance, low-temperature toughness and flame resistance.

Tefzel (ETFE) is commonly used in computer backplane wiring and has the highest abrasion and cut-through resistance of any fluoropolymer. Tefzel is a thermoplastic material having excellent electrical properties, heat resistance, chemical resistance, toughness, radiation resistance and flame resistance. Tefzel's temperature rating is -65°C to 150°C.

Halar (ECTFE) is similar to Tefzel and is also used in wirewrap applications, but because it is less expensive than Tefzel, it is often used as insulation on multipair plenum telephone cables. It has a maximum operating temperature of 125°C (UL). Halar has excellent chemical resistance, electrical properties, thermal characteristics and impact resistance. Halar's temperature rating is -70°C to 150°C.

Kynar (PVDF) is one of the least expensive fluoropolymers and is frequently used as a jacketing material on plenum cables. Because of its high dielectric constant, however, it tends to be a poor insulator. PVDF has a temperature maximum of 135°C (UL).

Polyolefins (PO)
Polyolefin is the name given to a family of polymers. The most common polyolefins used in wire and cable include polyethylene (PE), polypropylene (PP) and ethylene vinyl acetate (EVA).

Polyethylene (PE)
Polyethylene has excellent electrical properties. It has a low dielectric constant, a stable dielectric constant over a wide frequency range, and very high insulation resistance. However, polyethylene is stiff and very hard, depending on molecular weight and density. Low density PE (LDPE) is the most flexible, with high-density, high-molecular weight formulations being least flexible. Moisture resistance is excellent. Properly formulated PE has excellent weather resistance. The dielectric constant is 2.3 for solid and 1.6 for cellular (foamed) insulation. Flame retardant formulations are available, but they tend to have poorer electrical properties.

Polypropylene (PP)
Similar in electrical properties to polyethylene, this material is primarily used as an insulation material. Typically, it is harder than polyethylene. This makes it suitable for thin wall insulations. The UL maximum temperature rating may be 60°C or 80°C, but most UL styles call for 60° C maximum. The dielectric constant is typically 2.25 for solid and 1.55 for cellular designs.

Thermoplastic Elastomer (TPE)
TPE, sometimes called TPR (thermoplastic rubber), has excellent cold temperature characteristics, making it an excellent insulating and jacketing compound in cold climates. It is resistant to aging from sunlight, oxidation and atmospheric ozone. It retains most of its physical and electrical properties in the face of many severe environmental conditions such as a salt water environment. TPE compounds can be rated as high as 125°C (257°F).

TPE has good chemical resistance to all substances except hydrocarbons. It has a tendency to swell in a hydrocarbon environment, causing the material to degrade. It has good abrasion resistance. It will resist wear, cutting and impact. These properties make TPE jackets an excellent choice for use in control cables that are dragged around or frequently moved.

TPE compounds are used as insulating materials up to a 600-volt rating. The most common cables using TPE insulation are portable control cables such as SEO and SJEO.

Polyurethane (PUR)
Polyurethane is used primarily as a cable jacket material. It has excellent oxidation, oil and ozone resistance. Some formulations also have good flame resistance. It has excellent abrasion resistance. It has outstanding "memory" properties, making it an ideal jacket material for retractile cords.

Insulation and Jacket Materials

Thermosets

Chlorinated Polyethylene (CPE)

Cross-linked chlorinated polyethylene is a material with outstanding physical and electrical properties for many cable jacket applications. It is highly resistant to cold flow (compression set) and other forms of external loading as well as heat, light and chemical attack. CPE is also often supplied in a thermoplastic (non-cross-linked) version.

CPE compares favorably with most other synthetic elastomers currently used for cable jacketing. It is resistant to ozone and ultraviolet (sunlight) degradation. Properly compounded, CPE will withstand prolonged immersion in water. It will not support combustion, but under the right conditions of excessive heat, oxygen supply and flame source, it will burn slowly. Removal of the ignition source, will extinguish the flame. CPE jacketed cables pass the IEEE 383, UL, CSA and ICEA flame tests.

CPE maintains its flexibility at -18°C (0°F) and does not become brittle unless temperatures are below -40°C (-40°F). Its low temperature impact resistance is excellent. CPE jackets are suited to 105°C (221°F) and intermittently to higher temperatures. They will maintain adequate flexibility after repeated aging at elevated temperatures. They are known for abrasion resistance and long life in mining cable applications. CPE does not support the growth of mold, mildew or fungus.

CPE is resistant to most strong acids and bases and many solvents except for chlorinated organics. It is particularly well-suited to chemical plant use where both above ground (ultraviolet and flame retardancy) and below ground (water and chemical resistance) properties are desired. CPE's resistance to oils and fuels is good. CPE can be conveniently colored over a wide range and will maintain color upon aging.

Neoprene (CP)

Neoprene is a vulcanized synthetic rubber also referred to as chloroprene. It provides a resilient jacket that resists permanent deformation under heat and load, and does not embrittle at low temperatures. It is highly resistant to aging from sunlight and oxidation, and is virtually immune to atmospheric ozone.

Samples of neoprene-jacketed cable, tested outdoors under constant exposure for 40 years, have remained tough, resilient, uncracked and completely serviceable. Neoprene jackets are "flame resistant," i.e., not combustible without directly applied heat and flame. Neoprene will burn slowly as long as an outside source of flame is applied, but is self-extinguishing as soon as the flame is removed. Neoprene-jacketed power cable can be flexed without damage to the jacket at -40°C (-40°F) and will pass a mandrel wrap test down to about -45°C (-49°F). Neoprene jackets resist degradation for prolonged periods at temperatures up to 121°C (250°F). Satisfactory performance at even higher temperatures is possible if the exposures are brief or intermittent.

Neoprene jackets have excellent resistance to soil acids and alkalis. Mildew, fungus and other biological agents do not deteriorate properly compounded neoprene. These jackets perform well in many chemical plants. They are tough, strong, resilient and have excellent resistance to abrasive wear, impact, crushing and chipping. Because of these properties, neoprene is the jacketing material frequently used for mine trailing cables and dredge cables.

Cross-linked Polyethylene (XLP or XLPE)

Cross-linked polyethylene is a frequently used polymer in wire and cable. It is most often used as the insulation of 600 volt building wire (e.g., Type XHHW), as the insulation in 5 to 69 kV and higher rated power cables and as the insulation in many control cables.

XLP has very high insulation resistance (IR), high dielectric strength and low dielectric constant (2.3). It also is a very tough material at temperatures below 100°C, so it is resistant to cutting, impact and other mechanical forces. Its low-temperature performance is also very good: down to -40°C and below. XLP's fire resistance, however, is poor unless flame retardants are added. XLP is lower in cost than EPR.

Ethylene Propylene Rubber (EP, EPR or EPDM)

Ethylene propylene rubber is a common synthetic rubber polymer used as an insulation in electrical wire and cable. EPR is used as the insulation in 600 volt through 69 kV power cables, as an integral insulation/jacket on welding cables and as an insulation in many cords, portable mining cables and control/instrumentation cables.

Because of its rubber-like characteristics, EPR is used in many highly flexible cables. Its dielectric strength is good but not as high as that of PE or XLP. Dielectric constant ranges from 2.8 to 3.2 depending on the specific EPR formulation. EPR is abrasion resistant and is suitable for use at temperatures down to -60°C. It is fairly flame retardant and can be made even more flame retardant by careful formulation. Flame retardant versions are often referred to as "FREP" or "flame retardant EP." EPR's high-temperature characteristics are very good. Some formulations can withstand continuous temperatures as high as 150°C.

Hypalon* (CSPE)

Hypalon is a thermosetting, cross-linked, chlorosulfonated polyethylene made by DuPont with many excellent physical and electrical properties. It is inherently resistant to cold flow (compression set) resulting from clamping pressures and other forms of external loading; it is immune to attack by ozone; and it is highly resistant to aging from sunlight and oxidation. Water absorption of properly compounded Hypalon cable sheathing is extremely low.

Hypalon sheathing will not support combustion. It will burn slowly as long as an outside source of flame is applied but is self-extinguishing as soon as the flame is removed. It remains flexible at -18°C (0°F) and will not become brittle at -40°C (-40°F). Hypalon jacketed constructions pass both the Underwriters Laboratories' vertical flame test and the U.S. Bureau of Mines' flame test for mining cable.

*DuPont discontinued the production of Hypalon in 2009. However, CSPE is still available from other sources.

Insulation and Jacket Materials

At high temperatures, Hypalon will perform satisfactorily after short-term exposure at up to 148°C (300°F) – even higher if compounded for maximum heat resistance. It is well-known for its resistance to chemicals, oils, greases and fuels. It is particularly useful as a cable sheathing in plant processing areas, where airborne chemicals attack ordinary jacketing materials and metal conduit.

Hypalon surpasses most elastomers in resistance to abrasion. It is highly resistant to attack by hydrocarbon oils and fuels. It is especially useful in contact with oils at elevated temperatures. Sheathing of Hypalon provides high resistance to impact, crushing and chipping. Hypalon's electrical properties make it appropriate as insulation for low-voltage applications (up to 600 volts) and as jacketing for any type of wire and cable.

Silicone
Silicone is a soft, rubbery insulation that has a temperature range from -80°C to 200°C. It has excellent electrical properties plus ozone resistance, low moisture absorption, weather resistance, and radiation resistance. It typically has low mechanical strength and poor scuff resistance.

Fibrous Coverings
Fibrous coverings are commonly used on high-temperature cables due to their excellent heat resistance. They are normally constructed of a textile braid (e.g., fiberglass or K-fiber) impregnated with a flame and heat-resistant finish.

K-fiber insulating materials are a blend of polyaramid, polyamid, phenolic-based and fiberglass fibers. They are available as roving and yarn for insulating applications and as rope for use as fillers. They provide a non-asbestos, abrasion-, moisture-, flame- and temperature-resistant, non-melting insulating material for all applications requiring a 250°C (482°F) temperature rating, which would have previously utilized asbestos.

Additional Information
Additional information on the selection of cable jackets is available in IEEE 535 "Guide for Selecting and Testing Jackets for Power, Instrumentation and Control Cables."

COLOR CODING

Power, Control, Instrumentation and Thermocouple
ICEA standard S-73-532 (NEMA WC57) contains several methods for providing color coding in multiconductor power and control cables. Methods 1, 3 and 4 are the most widely used.

Method 1 – Colored compounds with tracers

Method 2 – Neutral colored compounds with tracers

Method 3 – Neutral or single-color compounds with surface printing of numbers and color designations

Method 4 – Neutral or single-color compounds with surface printing of numbers

Method 5 – Individual color coding with braids

Method 6 – Layer identification

Method 7 – Paired conductors

Historically, ICEA has established the sequence of colors used for Method 1 color coding, which consists of six basic colors, then a repeat of the colors with a colored band or tracer. This sequence of colors is referred to as K-1 color coding because it was formerly found in Table K-1 of many ICEA standards. (See Tables 5 through 9.) The latest ICEA standard lists the color sequences in Tables E-1 through E-7.

The National Electrical Code (NEC) specifies that a conductor colored white can only be used as a grounded (neutral) conductor and that a conductor colored green can only be used as an equipment grounding conductor. The use of Table E-1 (formerly K-1) color coding would therefore be in violation of the Code in a cable having more than six conductors if conductors #7 (white/black), #9 (green/black), #14 (green/white), etc. are energized.

To address this issue, a different color coding sequence was developed by ICEA for cables that are used in accordance with the NEC. Table E-2 (formerly K-2) of the ICEA standard provides this color sequence. The ICEA standard provides further guidance stating that if a white conductor is required, this color may be introduced into Table E-2 as the second conductor in the sequence. If a green insulated conductor is required, it likewise can be introduced into the table. However, the white and green colors may only appear once.

The most popular multiconductor control cables in sizes 14 AWG–10 AWG have Method 1, Table E-2 color coding. The cables do not contain a white or green conductor. The most popular control cables used in sizes 8 AWG and larger are three conductor cables having black insulation surface ink printed with the numbers 1, 2 and 3. This is Method 4 color coding in the ICEA standards.

The electric utility industry often specifies control cables with the E-1 color coding sequence.

For applications where the NEC is applicable, such as in industrial and commercial applications, the E-2 color sequence is normally used.

ICEA standard S-82-552 (NEMA WC 55) contains methods and color sequence tables for instrumentation and thermocouple cables.

Insulation and Jacket Materials

Table 5—E-1 (Formerly K-1) color sequence for control cables

Conductor Number	Background or Base Color	First Tracer Color	Second Tracer Color	Conductor Number	Background or Base Color	First Tracer Color	Second Tracer Color
1	Black	–	–	31	Green	Black	Orange
2	White	–	–	32	Orange	Black	Green
3	Red	–	–	33	Blue	White	Orange
4	Green	–	–	34	Black	White	Orange
5	Orange	–	–	35	White	Red	Orange
6	Blue	–	–	36	Orange	White	Blue
7	White	Black	–	37	White	Red	Blue
8	Red	Black	–	38	Black	White	Green
9	Green	Black	–	39	White	Black	Green
10	Orange	Black	–	40	Red	White	Green
11	Blue	Black	–	41	Green	White	Blue
12	Black	White	–	42	Orange	Red	Green
13	Red	White	–	43	Blue	Red	Green
14	Green	White	–	44	Black	White	Blue
15	Blue	White	–	45	White	Black	Blue
16	Black	Red	–	46	Red	White	Blue
17	White	Red	–	47	Green	Orange	Red
18	Orange	Red	–	48	Orange	Red	Blue
19	Blue	Red	–	49	Blue	Red	Orange
20	Red	Green	–	50	Black	Orange	Red
21	Orange	Green	–	51	White	Black	Orange
22	Black	White	Red	52	Red	Orange	Black
23	White	Black	Red	53	Green	Red	Blue
24	Red	Black	White	54	Orange	Black	Blue
25	Green	Black	White	55	Blue	Black	Orange
26	Orange	Black	White	56	Black	Orange	Green
27	Blue	Black	White	57	White	Orange	Green
28	Black	Red	Green	58	Red	Orange	Green
29	White	Red	Green	59	Green	Black	Blue
30	Red	Black	Green	60	Orange	Green	Blue

Note: The former K-1 color sequence was the same as E-1 through conductor number 21. K-1 then repeated. The above table is only applicable to control cables. The color sequence for instrumentation cables can be found in ICEA S-82-552 (NEMA WC 55).

Insulation and Jacket Materials

Table 6–E-2 (Formerly K-2) color sequence for control cables

Conductor Number	Background or Base Color	Tracer Color
1	Black	–
2	Red	–
3	Blue	–
4	Orange	–
5	Yellow	–
6	Brown	–
7	Red	Black
8	Blue	Black
9	Orange	Black
10	Yellow	Black
11	Brown	Black
12	Black	Red
13	Blue	Red
14	Orange	Red
15	Yellow	Red
16	Brown	Red
17	Black	Blue
18	Red	Blue
19	Orange	Blue
20	Yellow	Blue
21	Brown	Blue
22	Black	Orange
23	Red	Orange
24	Blue	Orange
25	Yellow	Orange
26	Brown	Orange
27	Black	Yellow
28	Red	Yellow
29	Blue	Yellow
30	Orange	Yellow
31	Brown	Yellow
32	Black	Brown
33	Red	Brown
34	Blue	Brown
35	Orange	Brown
36	Yellow	Brown

Note: The above table is only applicable to control cables. The color sequence for instrumentation cables can be found in ICEA S-82-552 (NEMA WC 55).

Table 7–E-3 (Formerly K-3) color sequence for control cables

Conductor Number	First Tracer Color (e.g., Wide Tracer)	Second Tracer Color (e.g., Narrow Tracer)
1	Black	–
2	White	–
3	Red	–
4	Green	–
5	Orange	–
6	Blue	–
7	White	Black
8	Red	Black
9	Green	Black
10	Orange	Black
11	Blue	Black
12	Black	White
13	Red	White
14	Green	White
15	Blue	White
16	Black	Red
17	White	Red
18	Orange	Red
19	Blue	Red
20	Red	Green
21	Orange	Green

Note: The above table is only applicable to control cables. The color sequence for instrumentation cables can be found in ICEA S-82-552 (NEMA WC 55).

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Table 8—E-4 (Formerly K-4) color sequence for control cables

Conductor Number	First Tracer Color (e.g., Wide Tracer)	Second Tracer Color (e.g., Narrow Tracer)
1	Black	–
2	Red	–
3	Blue	–
4	Orange	–
5	Yellow	–
6	Brown	–
7	Red	Black
8	Blue	Black
9	Orange	Black
10	Yellow	Black
11	Brown	Black
12	Black	Red
13	Blue	Red
14	Orange	Red
15	Yellow	Red
16	Brown	Red
17	Black	Blue
18	Red	Blue
19	Orange	Blue
20	Yellow	Blue
21	Brown	Blue
22	Black	Orange
23	Red	Orange
24	Blue	Orange
25	Yellow	Orange
26	Brown	Orange
27	Black	Yellow
28	Red	Yellow
29	Blue	Yellow
30	Orange	Yellow
31	Brown	Yellow
32	Black	Brown
33	Red	Brown
34	Blue	Brown
35	Orange	Brown
36	Yellow	Brown

Note: The above table is only applicable to control cables. The color sequence for instrumentation cables can be found in ICEA S-82-552 (NEMA WC 55).

Table 9—E-5 (Formerly K-5) color sequence for control cables

Conductor Number	Background or Base Color	First Tracer Color	Second Tracer Color
1	Black	–	–
2	White	–	–
3	Red	–	–
4	Green	–	–
5	Orange	–	–
6	Blue	–	–
7	White	Black	–
8	Red	Black	–
9	Green	Black	–
10	Orange	Black	–
11	Blue	Black	–
12	Black	White	–
13	Red	White	–
14	Green	White	–
15	Blue	White	–
16	Black	Red	–
17	White	Red	–
18	Orange	Red	–
19	Blue	Red	–
20	Red	Green	–
21	Orange	Green	–
22	Black	White	Red
23	White	Black	Red
24	Red	Black	White
25	Green	Black	White
26	Orange	Black	White
27	Blue	Black	White
28	Black	Red	Green
29	White	Red	Green
30	Red	Black	Green
31	Green	Black	Orange
32	Orange	Black	Green
33	Blue	White	Orange
34	Black	White	Orange
35	White	Red	Orange
36	Orange	White	Blue
37	White	Red	Blue

Note: The above table is only applicable to control cables. The color sequence for instrumentation cables can be found in ICEA S-82-552 (NEMA WC 55).

Insulation and Jacket Materials

Belden Electronic Color Code

Table 10–Belden color code chart No. 1

Cond. No.	Color
1	Black
2	White
3	Red
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Purple
10	Gray
11	Pink
12	Tan

18 Gage conductors in cables 8446 through 8449 are Black and White.

Table 11–Belden color code chart Nos. 2 and 2R — ICEA (Insulated Cable Engineers Association) standard*

Cond. No.	Color
1	Black
2	White
3	Red
4	Green
5	Orange
6	Blue
7	White/Black Stripe
8	Red/Black Stripe
9	Green/Black Stripe
10	Orange/Black Stripe
11	Blue/Black Stripe
12	Black/White Stripe
13	Red/White Stripe
14	Green/White Stripe
15	Blue/White Stripe
16	Black/Red Stripe
17	White/Red Stripe
18	Orange/Red Stripe
19	Blue/Red Stripe
20	Red/Green Stripe
21	Orange/Green Stripe
22	Black/White/Red
23	White/Black/Red
24	Red/Black/White
25	Green/Black/White
26	Orange/Black/White
27	Blue/Black/White
28	Black/Red/Green
29	White/Red/Green
30	Red/Black/Green
31	Green/Black/Orange
32	Orange/Black/Green
33	Blue/White/Orange
34	Black/White/Orange
35	White/Red/Orange
36	Orange/White/Blue
37	White/Red/Blue
38	Black/White/Green
39	White/Black/Green
40	Red/White/Green
41	Green/White/Blue
42	Orange/Red/Green
43	Blue/Red/Green
44	Black/White/Blue
45	White/Black/Blue
46	Red/White/Blue
47	Green/Orange/Red
48	Orange/Red/Blue
49	Blue/Orange/Red
50	Black/Orange/Red

*2 = Spiral Stripe
2R = Ring Band Striping

Table 12–Belden color code chart No. 3

Pair No.	Color Combination
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue
5	Black & Yellow
6	Black & Brown
7	Black & Orange
8	Red & White
9	Red & Green
10	Red & Blue
11	Red & Yellow
12	Red & Brown
13	Red & Orange
14	Green & White
15	Green & Blue
16	Green & Yellow
17	Green & Brown
18	Green & Orange
19	White & Blue
20	White & Yellow
21	White & Brown
22	White & Orange
23	Blue & Yellow
24	Blue & Brown
25	Blue & Orange
26	Brown & Yellow
27	Brown & Orange
28	Orange & Yellow
29	Purple & Orange
30	Purple & Red
31	Purple & White
32	Purple & Green
33	Purple & Blue
34	Purple & Yellow
35	Purple & Brown
36	Purple & Black
37	Gray & White

Table 13–Belden color code chart No. 4

Pair No.	Color Combination
1	White & Blue
2	White & Orange
3	White & Green
4	White & Brown
5	White & Gray
6	Red & Blue
7	Red & Orange
8	Red & Green
9	Red & Brown
10	Red & Gray
11	Black & Blue
12	Black & Orange
13	Black & Green
14	Black & Brown
15	Black & Gray
16	Yellow & Blue
17	Yellow & Orange
18	Yellow & Green
19	Yellow & Brown
20	Yellow & Gray
21	Purple & Blue
22	Purple & Orange
23	Purple & Green
24	Purple & Brown
25	Purple & Gray

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Table 14—Belden color code chart No. 5

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	White/Blue Stripe & Blue/White Stripe	6	Red/Blue Stripe & Blue/Red Stripe	11	Black/Blue Stripe & Blue/Black Stripe	16	Yellow/Blue Stripe & Blue/Yellow Stripe	21	Purple/Blue Stripe & Blue/Purple Stripe
2	White/Orange Stripe & Orange/White Stripe	7	Red/Orange Stripe & Orange/Red Stripe	12	Black/Orange Stripe & Orange/Black Stripe	17	Yellow/Orange Stripe & Orange/Yellow Stripe	22	Purple/Orange Stripe & Orange/Purple Stripe
3	White/Green Stripe & Green/White Stripe	8	Red/Green Stripe & Green/Red Stripe	13	Black/Green Stripe & Green/Black Stripe	18	Yellow/Green Stripe & Green/Yellow Stripe	23	Purple/Green Stripe & Green/Purple Stripe
4	White/Brown Stripe & Brown/White Stripe	9	Red/Brown Stripe & Brown/Red Stripe	14	Black/Brown Stripe & Brown/Black Stripe	19	Yellow/Brown Stripe & Brown/Yellow Stripe	24	Purple/Brown Stripe & Brown/Purple Stripe
5	White/Gray Stripe & Gray/White Stripe	10	Red/Gray Stripe & Gray/Red Stripe	15	Black/Gray Stripe & Gray/Black Stripe	20	Yellow/Gray Stripe & Gray/Yellow Stripe	25	Purple/Gray Stripe & Gray/Purple

Table 15—Belden color code chart No. 6

Position No.	Color	Position No.	Color
1	Brown	13	White/Orange
2	Red	14	White/Yellow
3	Orange	15	White/Green
4	Yellow	16	White/Blue
5	Green	17	White/Purple
6	Blue	18	White/Gray
7	Purple	19	White/Black/Brown
8	Gray	20	White/Black/Red
9	White	21	White/Black/Orange
10	White/Black	22	White/Black/Yellow
11	White/Brown	23	White/Brown/Green
12	White/Red	24	White/Black/Blue

Table 16—Belden color code chart No. 9: IBM RISC System/6000

Cond. No.	Color	Cond. No.	Color
1	White over Blue	1	White over Blue & Blue over White
2	White over Orange	2	White over Orange & Orange over White
3	White over Green	3	White over Green & Green over White
4	White over Brown		
5	White over Gray		
6	White over Red		
7	White over Yellow		

Table 17—Belden color code chart No. 10: fiber optics*

Fiber/ Tube No.	Color
1	Blue
2	Orange
3	Green
4	Brown
5	Gray
6	White
7	Red
8	Black
9	Yellow
10	Purple
11	Rose
12	Aqua

*Per ANSI/TIA 598-A

Table 18—Belden color code chart No. 7 for snake cables

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	Brown	16	Gray/Yellow Stripe	31	Blue/Purple Stripe	46	Lime/Black Stripe
2	Red	17	Gray/Green Stripe	32	Blue/Gray Stripe	47	Lime/Tan Stripe
3	Orange	18	Gray/Blue Stripe	33	Blue/White Stripe	48	Lime/Pink Stripe
4	Yellow	19	Gray/Purple Stripe	34	Blue/Black Stripe	49	Aqua/Brown Stripe
5	Green	20	Gray/Gray Stripe	35	Blue/Tan Stripe	50	Aqua/Red Stripe
6	Blue	21	Gray/White Stripe	36	Blue/Pink Stripe	51	Aqua/Orange Stripe
7	Purple	22	Gray/Black Stripe	37	Lime/Brown Stripe	52	Aqua/Yellow Stripe
8	Gray	23	Gray/Tan Stripe	38	Lime/Red Stripe	53	Aqua/Green Stripe
9	White	24	Gray/Pink Stripe	39	Lime/Orange Stripe	54	Aqua/Blue Stripe
10	Black	25	Blue/Brown Stripe	40	Lime/Yellow Stripe	55	Aqua/Purple Stripe
11	Tan	26	Blue/Red Stripe	41	Lime/Green Stripe	56	Aqua/Gray Stripe
12	Pink	27	Blue/Orange Stripe	42	Lime/Blue Stripe	57	Aqua/White Stripe
13	Gray/Brown Stripe	28	Blue/Yellow Stripe	43	Lime/Purple Stripe	58	Aqua/Black Stripe
14	Gray/Red Stripe	29	Blue/Green Stripe	44	Lime/Gray Stripe	59	Aqua/Tan Stripe
15	Gray/Orange Stripe	30	Blue/Blue Stripe	45	Lime/White Stripe	60	Aqua/Pink Stripe

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Table 19–Belden color code chart No. 8 for DataTwist cables

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	White/Blue Stripe & Blue	6	Red/Blue Stripe & Blue/Red Stripe	11	Black/Blue Stripe & Blue/Black Stripe	16	Yellow/Blue Stripe & Blue/Yellow Stripe	21	Purple/Blue Stripe & Blue/Purple Stripe
2	White/Orange Stripe & Orange	7	Red/Orange Stripe & Orange/Red Stripe	12	Black/Orange Stripe & Orange/Black Stripe	17	Yellow/Orange Stripe & Orange/Yellow Stripe	22	Purple/Orange Stripe & Orange/Purple Stripe
3	White/Green Stripe & Green	8	Red/Green Stripe & Green/Red Stripe	13	Black/Green Stripe & Green/Black Stripe	18	Yellow/Green Stripe & Green/Yellow Stripe	23	Purple/Green Stripe & Green/Purple Stripe
4	White/Brown Stripe & Brown	9	Red/Brown Stripe & Brown/Red Stripe	14	Black/Brown Stripe & Brown/Black Stripe	19	Yellow/Brown Stripe & Brown/Yellow Stripe	24	Purple/Brown Stripe & Brown/Purple Stripe
5	White/Gray Stripe & Gray/White Stripe	10	Red/Gray Stripe & Gray/Red Stripe	15	Black/Gray Stripe & Gray/Black Stripe	20	Yellow/Gray Stripe & Gray/Yellow Stripe	25	Purple/Gray Stripe & Gray/Purple

Table 20–Stripe ICEA table E1*

Cond. No.	Base Color	Tracer	Tracer	Cond. No.	Base Color	Tracer	Tracer
1	Black	—	—	26	Orange	Black	White
2	White	—	—	27	Blue	Black	White
3	Red	—	—	28	Black	Red	Green
4	Green	—	—	29	White	Red	Green
5	Orange	—	—	30	Red	Black	Green
6	Blue	—	—	31	Green	Black	Orange
7	White	Black	—	32	Orange	Black	Green
8	Red	Black	—	33	Blue	White	Orange
9	Green	Black	—	34	Black	White	Orange
10	Orange	Black	—	35	White	Red	Orange
11	Blue	Black	—	36	Orange	White	Blue
12	Black	White	—	37	White	Red	Blue
13	Red	White	—	38	Black	White	Green
14	Green	White	—	39	White	Black	Green
15	Blue	White	—	40	Red	White	Green
16	Black	Red	—	41	Green	White	Blue
17	White	Red	—	42	Orange	Red	Green
18	Orange	Red	—	43	Blue	Red	Green
19	Blue	Red	—	44	Black	White	Blue
20	Red	Green	—	45	White	Black	Blue
21	Orange	Green	—	46	Red	White	Blue
22	Black	White	Red	47	Green	Orange	Red
23	White	Black	Red	48	Orange	Red	Blue
24	Red	Black	White	49	Blue	Red	Orange
25	Green	Black	White	50	Black	Orange	Red

Pair cables are Black, White and numbered. Triad cables are Black, White, Red and numbered.
* Reference ICEA S-73-532

Table 21–ICEA Method 4: All conductors black*

Cond.	Conductor Printing	Cond.	Conductor Printing
1st	"1–ONE–1"	26th	"26–TWENTY-SIX–26"
2nd	"2–TWO–2"	27th	"27–TWENTY-SEVEN–27"
3rd	"3–THREE–3"	28th	"28–TWENTY-EIGHT–28"
4th	"4–FOUR–4"	29th	"29–TWENTY-NINE–29"
5th	"5–FIVE–5"	30th	"30–THIRTY–30"
6th	"6–SIX–6"	31st	"31–THIRTY-ONE–31"
7th	"7–SEVEN–7"	32nd	"32–THIRTY-TWO–32"
8th	"8–EIGHT–8"	33rd	"33–THIRTY-THREE–33"
9th	"9–NINE–9"	34th	"34–THIRTY-FOUR–34"
10th	"10–TEN–10"	35th	"35–THIRTY-FIVE–35"
11th	"11–ELEVEN–11"	36th	"36–THIRTY-SIX–36"
12th	"12–TWELVE–12"	37th	"37–THIRTY-SEVEN–37"
13th	"13–THIRTEEN–13"	38th	"38–THIRTY-EIGHT–38"
14th	"14–FOURTEEN–14"	39th	"39–THIRTY-NINE–39"
15th	"15–FIFTEEN–15"	40th	"40–FORTY–40"
16th	"16–SIXTEEN–16"	41st	"41–FORTY-ONE–41"
17th	"17–SEVENTEEN–17"	42nd	"42–FORTY-TWO–42"
18th	"18–EIGHTEEN–18"	43rd	"43–FORTY-THREE–43"
19th	"19–NINETEEN–19"	44th	"44–FORTY-FOUR–44"
20th	"20–TWENTY–20"	45th	"45–FORTY-FIVE–45"
21st	"21–TWENTY-ONE–21"	46th	"46–FORTY-SIX–46"
22nd	"22–TWENTY-TWO–22"	47th	"47–FORTY-SEVEN–47"
23rd	"23–TWENTY-THREE–23"	48th	"48–FORTY-EIGHT–48"
24th	"24–TWENTY-FOUR–24"	49th	"49–FORTY-NINE–49"
25th	"25–TWENTY-FIVE–25"	50th	"50–FIFTY–50"

* Reference ICEA S-73-532

Insulation and Jacket Materials

Table 22–ICEA table E2*

Cond. No.	Base Color	Tracer	Cond. No.	Base Color	Tracer
1	Black	—	19	Orange	Blue
2	Red	—	20	Yellow	Blue
3	Blue	—	21	Brown	Blue
4	Orange	—	22	Black	Orange
5	Yellow	—	23	Red	Orange
6	Brown	—	24	Blue	Orange
7	Red	Black	25	Yellow	Orange
8	Blue	Black	26	Brown	Orange
9	Orange	Black	27	Black	Yellow
10	Yellow	Black	28	Red	Yellow
11	Brown	Black	29	Blue	Yellow
12	Black	Red	30	Orange	Yellow
13	Blue	Red	31	Brown	Yellow
14	Orange	Red	32	Black	Brown
15	Yellow	Red	33	Red	Brown
16	Brown	Red	34	Blue	Brown
17	Black	Blue	35	Orange	Brown
18	Red	Blue	36	Yellow	Brown

Pair cables are Black, Red and numbered. Triad cables are Black, Red, Blue and numbered. Colors repeat after 36 conductors. There are no Green or White conductors or stripes.
*Reference ICEA S-73-532

Table 23–Anixter high-temperature building wire color code

Cond. No.	Color	Cond. No.	Color
00	Chrome	60	Green/Yellow
01	White	61	Green/White
02	Black	62	Green/Black
03	Red	63	Pink/Black
04	Green	64	Gray/Black
05	Yellow	65	Red/Green
06	Blue	66	Red/Yellow
07	Brown	69	Blue/White
08	Orange	71	Brown/Black
09	Gray (Slate)	73	Brown/Red
10	Purple (Violet)	74	Brown/Green
11	Tan	75	Brown/Yellow
12	Pink	76	Blue/Yellow
13	Clear	77	Blue/Orange
14	Gold	81	Purple/White
15	Natural	82	Purple/Black
16	Maroon	85	Purple/Yellow
17	Dark Blue	87	Tan/White
18	Pink/Violet	88	Tan/Black
19	Pink/Orange	89	Tan/Red
20	White/Tan	93	Green/Red
21	White/Black	94	Green/Orange
22	White/Red	95	Red/Pink
23	White/Pink	97	Gray/White
24	White/Yellow	98	Gray/Red
25	White/Blue	100	Black/Green
27	White/Orange	101	Black/Gray
28	White/Gray	104	Blue/Pink
29	White/Violet	107	Gray/Yellow
30	Black/Pink	108	Gray/Orange
31	Black/White	109	Gray/Brown
32	Black/Red	110	Orange/White
33	Black/Blue	112	Brown/Blue
34	Black/Yellow	119	Orange/Blue
35	Black/Orange	120	Orange/Brown
36	Red/White	121	Pink/White
37	Red/Black	127	Pink/Red
38	Red/Blue	129	Pink/Gray
39	Yellow/Black	131	Red/Orange
40	Yellow/White	134	Yellow/Orange
41	Blue/Black	147	Ivory
42	Blue/Red	160	Pink/Black/Black
43	Blue/Green	165	Orange/Violet
44	Blue/Brown	170	Tan/Black/Black
45	Orange/Black	172	Violet/White
46	Yellow/Green	173	Violet/Red
47	Green/Tan	184	Gray/Silver
48	Light Green	189	Light Blue/White
49	Yellow/Red	194	Dark Green
50	Brown/White	47A	Yellow/Blue
56	White/Black/Gray	48A	Orange/Red
59	White/Black/Red		

Insulation and Jacket Materials

PROPERTIES

Thermoplastic

Table 24—Properties of thermoplastic insulation and jacket materials

	PVC	Low-Density Polyethylene	Cellular Polyethylene	High-Density Polyethylene	Polypropylene
Oxidation resistance	E	E	E	E	E
Heat resistance	G-E	G	G	E	E
Oil resistance	F	G-E	G	G-E	F
Low-temperature flexibility	P-G	E	E	E	P
Weather, sun resistance	G-E	E	E	E	E
Ozone resistance	E	E	E	E	E
Abrasion resistance	F-G	G	F	E	F-G
Electrical properties	F-G	E	E	E	E
Flame resistance	E	P	P	P	P
Nuclear radiation resistance	F	G-E	G	G-E	F
Water resistance	F-G	E	E	E	E
Acid resistance	G-E	G-E	G-E	E	E
Alkali resistance	G-E	G-E	G-E	E	E
Gasoline, kerosene, etc. (aliphatic hydrocarbons) resistance	P	G-E	G	G-E	P-F
Benzol, toluol, etc. (aromatic hydrocarbons) resistance	P-F	P	P	P	P-F
Degreaser solvents (halogenated hydrocarbons) resistance	P-F	G	G	G	P
Alcohol resistance	G-E	E	E	E	E
Underground burial	P-G	G	F	E	E

P = Poor, F = Fair, G = Good, E = Excellent, O = Outstanding
These ratings are based on average performance of general purpose compounds. Any given property can usually be improved by the use of selective compounding.
Source: Belden

Continued on next page >>

Insulation and Jacket Materials

Table 24–Properties of thermoplastic insulation and jacket materials (continued)

	Cellular Polypropylene	Polyurethane	Nylon	CPE	Plenum PVC
Oxidation resistance	E	E	E	E	E
Heat resistance	E	G	E	E	G-E
Oil resistance	F	E	E	E	F
Low-temperature flexibility	P	G	G	E	P-G
Weather, sun resistance	E	G	E	E	G
Ozone resistance	E	E	E	E	E
Abrasion resistance	F-G	0	E	E-0	F-G
Electrical properties	E	P	P	E	G
Flame resistance	P	P	P	E	E
Nuclear radiation resistance	F	G	F-G	0	F
Water resistance	E	P-G	P-F	0	F
Acid resistance	E	F	P-E	E	G
Alkali resistance	E	F	E	E	G
Gasoline, kerosene, etc. (aliphatic hydrocarbons) resistance	P	P-G	G	E	P
Benzol, toluol, etc. (aromatic hydrocarbons) resistance	P	P-G	G	G-E	P-F
Degreaser solvents (halogenated hydrocarbons) resistance	P	P-G	G	E	P-F
Alcohol resistance	E	P-G	P	E	G
Underground burial	F	G	P	E-0	P

P = Poor, F = Fair, G = Good, E = Excellent, 0 = Outstanding
These ratings are based on average performance of general purpose compounds. Any given property can usually be improved by the use of selective compounding.
Source: Belden

Continued on next page >>

Insulation and Jacket Materials

Table 24–Properties of thermoplastic insulation and jacket materials (continued)

	FEP Teflon	Tefzel (ETFE)	PTFE (TFE) Teflon	Solef/Kynar (PVDF)/PVF	Halar (ECTFE)
Oxidation resistance	0	E	0	0	0
Heat resistance	0	E	0	0	0
Oil resistance	0	E	E-0	E	0
Low-temperature flexibility	0	E	0	0	0
Weather, sun resistance	0	E	0	E-0	0
Ozone resistance	E	E	0	E	E
Abrasion resistance	E	E	0	E	E
Electrical properties	E	E	E	G-E	E
Flame resistance	0	G	E	E	E-0
Nuclear radiation resistance	P-G	E	P	E	E
Water resistance	E	E	E	E	E
Acid resistance	E	E	E	G-E	E
Alkali resistance	E	E	E	E	E
Gasoline, kerosene, etc. (aliphatic hydrocarbons) resistance	E	E	E	E	E
Benzol, toluol, etc. (aromatic hydrocarbons) resistance	E	E	E	G-E	E
Degreaser solvents (halogenated hydrocarbons) resistance	E	E	E	G	E
Alcohol resistance	E	E	E	E	E
Underground burial	E	E	E	E	E

P = Poor, F = Fair, G = Good, E = Excellent, 0 = Outstanding
These ratings are based on average performance of general purpose compounds. Any given property can usually be improved by the use of selective compounding.
Source: Belden

Insulation and Jacket Materials

THERMOSET

Table 25–Properties of thermoset insulation and jacket materials

	Neoprene	CSPE (Chlorosulfonated Polyethylene)	EPR (Ethylene Propylene Rubber)	XLPE	CPE	Silicone Rubber
Oxidation resistance	G	E	E	E	E	E
Heat resistance	G	E	E	G	E	0
Oil resistance	G	G	P	G	G-E	F-G
Low-temperature flexibility	F-G	F	G-E	0	F	0
Weather, sun resistance	G	E	E	G	E	0
Ozone resistance	G	E	E	G	G-E	0
Abrasion resistance	G-E	G	G	F-G	G-E	P
Electrical properties	P	G	E	E	F-G	G
Flame resistance	G	G	P	P	G	F-G
Nuclear radiation resistance	F-G	E	G	E	G	E
Water resistance	E	E	G-E	G-E	G-E	G-E
Acid resistance	G	E	G-E	G-E	E	F-G
Alkali resistance	G	E	G-E	G-E	E	F-G
Gasoline, kerosene, etc. (aliphatic hydrocarbons) resistance	G	F	P	F	F	P-F
Benzol, toluol, etc. (aromatic hydrocarbons) resistance	P-F	F	F	F	F	P
Degreaser solvents (halogenated hydrocarbons) resistance	P	P-F	P	F	P	P-G
Alcohol resistance	F	G	P	E	G-E	G
Underground burial	G-E	E	E	E	E	G

P = Poor, F = Fair, G = Good, E = Excellent, 0 = Outstanding
These ratings are based on average performance of general purpose compounds. Any given property can usually be improved by the use of selective compounding.
Source: Belden

Insulation and Jacket Materials

EPR Versus XLPE

Table 26—Properties of EPR compared with those of XLPE

Cross-linked Polyethylene (XLPE)	Ethylene Propylene Rubber (EPR)
Less deformation below 100°C	Less deformation above 100°C
Lower in cost	More heat resistance
Lower dissipation factor	Less shrinkback
Lower dielectric constant	Less thermal expansion
Higher dielectric strength	More corona resistant
Physically tougher	More flexible
More resistant to chemicals	More tree retardant
More oil resistant	More sunlight resistant

Thermal Characteristics

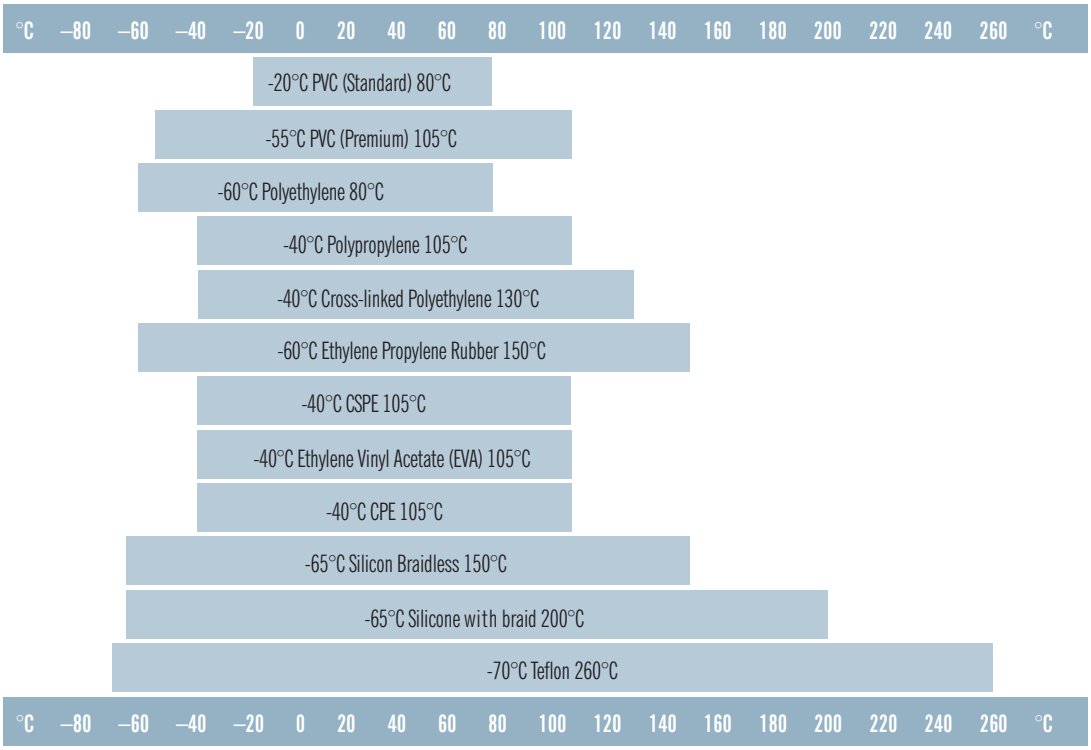


Figure 9—Nominal temperature range of cable polymers

Insulation and Jacket Materials

Halogen Content

Table 27–Halogen content in typical insulation and jacket materials

Material	Typical Halogen Content Percent by Weight
PE insulation or jacket	<0.02
XLP insulation 600 V (6 AWG and larger)	<0.02
XLP insulation 5–35 kV	<0.02
EPR insulation 5–35 kV	<0.02
Polyurethane jacket	<0.02
EVA jacket	<0.02
XLP insulation 600 V (14–8 AWG)	7–13
FR-EPR insulation	9–14
CSPE (insulation grade)	13–16
FR-XLP insulation	11–17
CSPE jacket (heavy duty)	16–26
Neoprene jacket	16–18
CPE jacket	14–28
CSPE jacket (extra heavy duty)	18–33
PVC jacket	22–29

NOTE: Halogen content can vary from manufacturer to manufacturer. The above values should be used for general comparisons only.

Limiting Oxygen Index (LOI)

LOI values are used to determine the relative flammability of polymers. Tests are usually conducted in accordance with ASTM D2863, which finds the percent oxygen required to sustain combustion. Typical values are shown below. The oxygen content of air is 20.9 percent.

Table 28–LOI of common wire and cable materials

Material	Percent Oxygen	Material	Percent Oxygen
Teflon	93	Neoprene	32
PVDF (Kynar)	43–85	Tefzel	30–32
Halar	55	PVC	28–32
Plenum grade PVC	38–42	Kevlar	29
FR-EP	30–40	NBR PVC	28
FR-XLP	30–40	XLP (Unfilled)	20–23
CPE	28–36	PE (Unfilled)	20–23
Ethylene Vinyl Acetate (EVA)	32–35		
CSPE	34		

Insulation and Jacket Materials

Dielectric Constant

Table 29—Dielectric constant of common wire and cable materials

Material	Dielectric Constant	Material	Dielectric Constant
Teflon (FEP, PFA or TFE)	2.1	Polyester (Mylar)	3.3–3.8
Polypropylene	2.2–2.3	Silicone	3–4
Cross-linked Polyethylene	2.3	Nylon	3.2–5
Polyethylene	2.3	Mica	6.9
TPE	2.3–2.5	PVC	3.5–8
Halar (ECTFE)	2.6	CSPE	8–10
Tefzel (ETFE)	2.6	Neoprene	9–10
EPR	2.8–3.5	Kynar (PVDF)	6–12
Ethylene Vinyl Acetate (EVA)	3.8		

Shields

A shield is a metallic covering enclosing an insulated conductor or group of conductors. Though sometimes similar in appearance, shields for electronic and power cables perform very different functions. Electronic cable shields serve to both minimize the effect of external electromagnetic signals on the conductors in the cable and to reduce the radiated signal from the cable to an acceptable level. Power cable shields, on the other hand, help protect the user from shock hazards and increase cable reliability by preventing partial discharges (corona) in cables rated above 2,400 volts.

POWER CABLE

The use of shields in power cables rated above 2,400 volts reduces electrical shock hazard to people and provides uniform distribution of electrical stresses throughout the insulation. A uniform distribution of electrical stress extends the life of the cable by eliminating partial discharges. The various components of a power cable shield are discussed below.

Conductor Shield (Strand Shield)

The nonround geometry of stranded conductors permits air gaps between the outer surface of the conductor and the inner surface of the insulation. Without a stress control layer, high electric fields cause partial discharges within these gaps, which can harm the insulation. Energetic ions bombard the insulation, break molecular bonds and degrade the insulation. Microscopic channels called "trees" may form and ultimately cause premature failure of the insulation. Thus, the primary purpose of the conductor shield is to provide a smooth, continuous and void-free interface between the conductor and insulation.

There are two basic types of conductor shields – "conductive" and "emission" shields. An emission shield uses a material with a high dielectric constant to do its job. The most popular type, however, is the conductive shield. It is a material (either an extruded carbon black loaded polymer or carbon black impregnated fabric tape) with electrical conductivity midway between that of a metallic conductor such as copper and that of an insulation such as XLP. Such a material is commonly referred to as a "semiconductive" shield (not to be confused with semiconductors, i.e., transistors, used in the electronics industry). AEIC document CS8 and ICEA publication T-25-425 contain detailed specifications on the electrical and physical performance of the conductor shield.

Semiconductive shields must be as smooth, cylindrical and clean as possible to avoid electrical stress concentrations that can lead to insulation damage.

Outer Shield (Insulation Shield)

The insulation shield plays much the same role as the conductor shield in protecting the insulation from the damaging effects of corona, but at the outside of the cable's insulation. It too must remain in intimate contact with the insulation and be free of voids and defects. The insulation shield material is either electrically conductive or made of a high dielectric constant material and provides a uniform electrical field within the insulation. The insulation shield also provides an important safety function at terminations and splices where the metallic part of the shield may not completely cover the cable insulation surface. Volume resistivity of the insulation shield is normally less than 500 ohm-meters.

Copper Tape Shields

The copper tape used in power cable shields is usually 5 mils thick and 1 to 1 ½ inches wide. It is generally helically applied over a semiconducting polymer insulation shield.

Power cables rated 5 to 35 kV and up frequently utilize copper tape as the metallic component of the metal/polymer shielding system. In combination with the extruded insulation shield, a copper tape shield increases insulation life by maintaining uniform electrical stress throughout the cable insulation and provides low end-to-end resistance of the shield system.

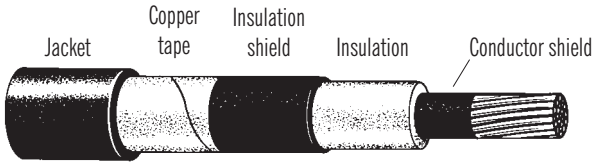


Figure 10–Typical copper tape shielded power cable

Table 30–Power cable shielding

Advantages	Disadvantages
• When properly grounded, provides protection from electrical shock • Increases life of the cable insulation • Reduces electromagnetic interference (EMI)	• Must be terminated with a medium-voltage termination to control electrical stresses • Higher cost

Wire Shields

Metallic wire shields on power cables come in two basic types: helically applied copper wires and UniShield.

Helically applied copper wire shields are sometimes used on 5 through 35 kV and higher rated power cables. They are sometimes used in combination with copper tape to provide additional shield fault current capacity.

UniShield cables have six corrugated copper wires longitudinally imbedded in a conducting CPE jacket. The wires can be used as "rip cords" to reduce termination time during installation.

ELECTRONIC CABLE

Electronic cable shielding provides an efficient way to manage electromagnetic interference (EMI).

When a shielded cable is present in an ambient electromagnetic field, an interference current is induced in the shield. The incident energy is partially reflected from the shield and partially absorbed by the shield and a small amount penetrates through the shield into the cable. The small amount of energy that makes it all the way through the shield generates an interference voltage in the signal carrying conductors of the cable. The smaller the interference voltage, the better the shield.

In addition to shielding effectiveness, electronic cable shields must satisfy a long list of electrical, mechanical, chemical and cost requirements. As a result, a diversified line of shield designs has evolved in the wire and cable industry.

Foil Shield

Foil shields are usually constructed of aluminum foil with a ½-mil thick polyester backing. This backing provides mechanical strength. The shield can be overlapped (Figure 11) with the foil facing in or the foil facing out. This overlap creates a slot where signal leakage through the shield can occur. The "Z" fold (Figure 12) construction provides the best electrical isolation between shields of adjacent pairs as well as 100 percent coverage. A tinned copper drain wire is placed in contact with the foil side of the shield to provide easier grounding of the shield at the cable terminations.

Foil shields are most common in electronic and coaxial cables. Foil shields provide excellent protection from electromagnetic interference, especially at high frequencies.

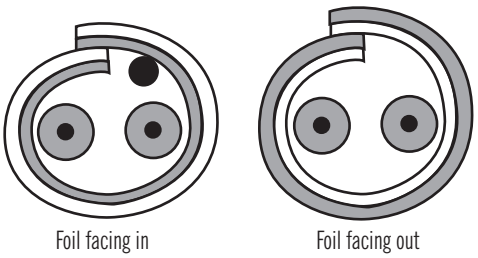


Figure 11–Foil shield

Figure 12–Z-Fold foil shield

Shields

Table 31–Foil shielding

Advantages	Disadvantages
• 100% coverage	• Poor mechanical strength
• Low cost	• Short flex life
• Ease of termination	• Less effective at low frequencies
• Good flexibility	
• Excellent shielding at high frequencies	

Copper Braid Shield

A braid shield typically consists of copper wire ranging in size from 32 to 40 AWG braided into a mesh around the cable core. The tightness of the braid determines the percent coverage. Typical coverage ranges from 60 percent to 90 percent. Generally, the higher the coverage the better the shield.

Braid shields are typically used on coaxial cables and on low-speed communications cables. Braid shields are most effective at low frequencies. Braid shields are also commonly used on cables where increased flex life and mechanical strength are required.

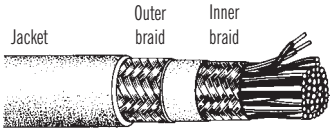


Figure 13–Dual braid shield construction on a multipair cable

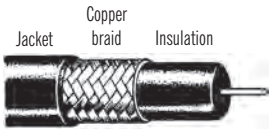


Figure 14–Copper braid construction on a coaxial cable

Table 32–Copper braid shields

Advantages	Disadvantages
• Best at low frequencies	• Increased cost
• Good mechanical strength	• More difficult to terminate
• Increased flex life	

Spiral (Serve) Shield

Spiral or serve shields, as they are sometimes called, are typically constructed with bare or tinned copper wires from 32 to 40 AWG in size that are helically applied in a flat or ribbon configuration (Figure 15). Spiral shields range in coverage from 80 percent to about 97 percent.

Spiral shields are used primarily in audio, microphone and retractile cord cables where extreme flexibility and a long flex life are required. Spiral shields perform best when used at low (audio) frequencies.

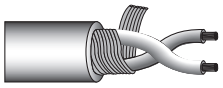
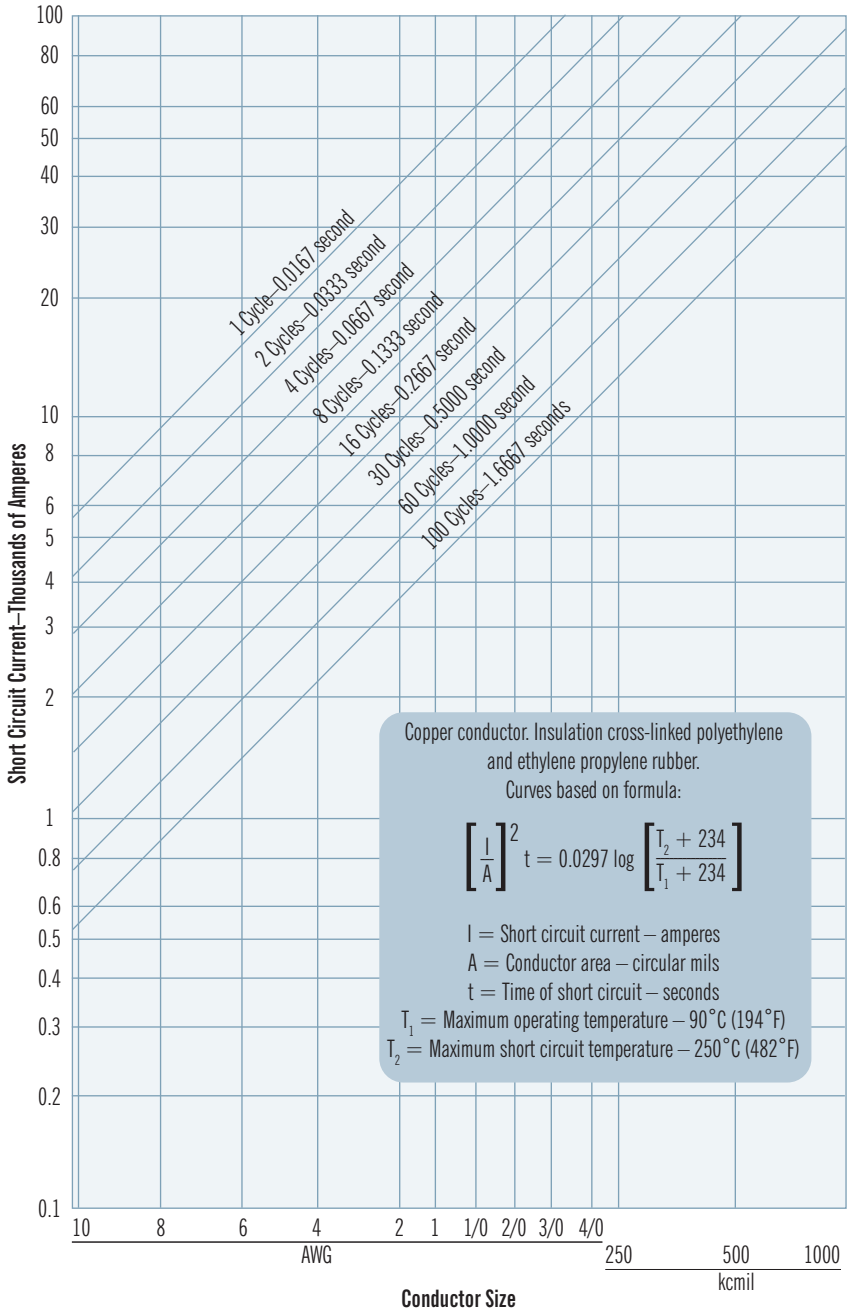


Figure 15–Spiral or serve shield

Table 33–Spiral Shields

Advantages	Disadvantages
• Excellent flexibility	• Poor electrical performance at high frequencies
• Long flex life	

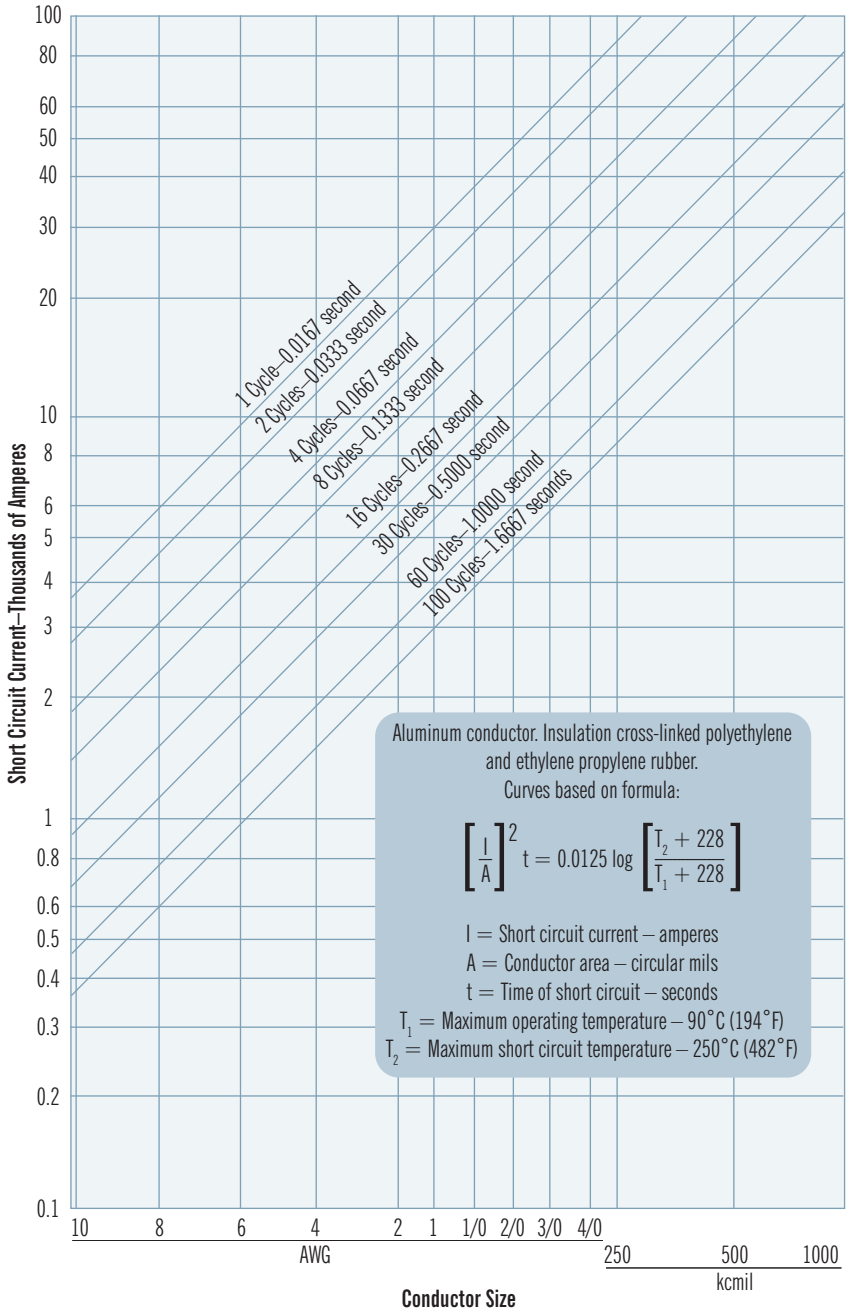
Maximum Short Circuit Current



Source: ICEA P-32-382

Figure 16–Maximum conductor short circuit current for copper cables

Maximum Short Circuit Current



Source: ICEA P-32-382

Figure 17–Maximum conductor short circuit current for aluminum cables

Installation and Testing

This section is intended as a guide for the installer's use in the field. The information has been obtained from many sources and covers some of the major considerations when installing and testing power, control, instrumentation, fiber and communications cable.

RECEIVING, HANDLING AND STORAGE

The following guidelines are recommended to prevent possible deterioration or damage of cable during handling or storage prior to installation.

Receiving

Before accepting any shipment, all reels should be visually inspected for both hidden and obvious damage. Contact your Anixter sales representative if you see any of the following:

- A reel is lying flat on its side
- Reels are poorly stacked
- Protective covering (packaging material) is removed or damaged
- Cable end seals are removed or damaged
- Reel flanges are broken
- A reel has been dropped
- Cable ties are loose
- Nails or staples have been driven into the reel flange.

Handling

Cable reels should always be rolled in the direction of the "roll this way" stenciled on the flanges. This prevents loosening of the cable turns, which may cause problems during installation. If the roll direction is not indicated, rotate the reel in the same direction it was rotated when the cable was wound onto the reel.

Cable reels should only be lifted by forklift trucks from the sides and only if the forks are long enough to cradle both flanges.

Steel lifting bars of a suitable diameter and length should be used when lifting cable reels by crane or other overhead lifting devices. With heavy reels or reels that may be unbalanced, the use of a lifting yoke is recommended to prevent reels from slipping or tipping during lifting.

Storage

Where possible, reels should be stored indoors on a hard, dry surface. If reels must be stored outside they should be supported off the ground and covered with a suitable weatherproof material.

- Each reel should be aligned flange to flange.
- Each reel should be chocked.
- Reels should be stored to allow easy access for lifting and moving.

When cable lengths are cut from a master cable reel, all exposed cable ends should be resealed with plastic weatherproof caps or tape to prevent the entrance of moisture.

Installation and Testing

PULLING

Methods of Gripping Cables

In general, insulated cables may be gripped either directly by the conductors or by a basket-weave pulling grip applied over the cables. The appropriate method to use depends on the anticipated maximum pulling tension. When pulls are relatively light a basket-weave grip can often be used. Heavier pulls usually require connecting directly to the conductor either by means of pulling eyes or by forming a loop with the conductor itself. In some instances it is desirable to use a grip over the outer covering in addition to the conductor connection to prevent any slippage of one with respect to the other.

Nonmetallic Sheathed Cables

Smaller sizes of nonmetallic sheathed cables can usually be gripped directly by the conductors by forming them into a loop to which the pull wire or rope can be attached. The insulation on each conductor is removed before the loop is formed. Larger sizes are more easily handled by applying a pulling grip over the cable or cables provided the pull is not too severe. If more than one cable is involved, the ends should be bound together with electrical tape before applying the grip overall. Long, hard pulls will necessitate the use of pulling eyes.

Interlocked Armor Cables

When pulling interlocked armor cable it is usually necessary to grip both the armor and the conductors. This can be accomplished in a number of ways. One method requires that a portion of the armor be removed. Electrical tape is then applied over the armor and down over the conductors and a long basket-weave grip is applied such that it grips both the armor and the conductors. Another method requires that two holes be drilled through the cable (armor and conductors) at right angles to each other and a loop formed by passing steel wires through the holes and out over the end of the cable. A third approach is to use a pulling eye and a grip together, the grip being applied over the armor to prevent it from slipping back. This latter approach provides the greatest strength.

Preassembled Aerial Cable

This type of cable should always be gripped by the messenger that is usually attached to a pulling swivel. In addition, a basket grip should be applied over the conductors to prevent any slippage and to facilitate guiding the conductors through the pulleys.

Tension Limitations

When the pulling force is applied directly to the conductor (e.g., when pulling eyes are used or when the conductor is formed into a loop) it should be limited to 0.008 lb. per circular mil area of cross-section for copper and 0.006 lb. per circular mil for aluminum.

When a grip is applied over nonmetallic sheathed cables, the pulling force should be limited to 1,000 pounds provided this is not in excess of the force calculated above using the 0.008 or 0.006 factors.

To limit the sidewall pressure to a safe value at bends in duct and conduit runs, the pulling force in pounds should not exceed 300 to 500 times the radius of the bend in feet.

The above limits are maximum values that should not be exceeded. However, it is possible to damage cables while applying lower tensions if, for example, there are sharp projections in a poorly constructed duct bank, or if an interlocked armor cable is pulled around too small a sheave. Every installation detail cannot be covered here but staying within the above tension limits will help ensure a successful installation.

Installation and Testing

Helpful Hints

The following suggestions – though not all-inclusive – will give greater assurance of success.

(1) Be sure there is adequate clearance between conduit and cable. Clearance refers to the distance between the uppermost cable in the conduit and the inner top of the conduit. Clearance should be 1/4 inch at minimum and up to one inch for large cable installations or installations involving numerous bends. It is calculated as shown in Figure 18 where "D" is the inner diameter of the conduit and "d" is the outer diameter of the cable. When calculating clearance, ensure all cable diameters are equal. Use the triplexed configuration formula if you are in doubt. The cables may be of single or multiple conductor construction. Do not exceed recommended "conduit fill" requirements.

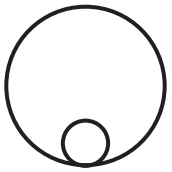
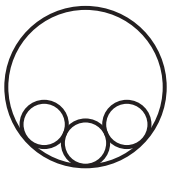
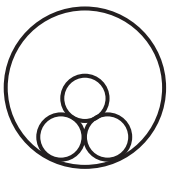
No. of Conductors/Cables	Configuration	Formula
1		$\text{Clearance} = D - d$
3	 Cradled	$\text{Clearance} = \frac{D}{2} - 1.366d + \frac{D-d}{2}\sqrt{1-\left(\frac{d}{(D-d)}\right)^2}$
3	 Triplexed	$\text{Clearance} = \frac{D}{2} - \frac{d}{2} + \frac{D-d}{2}\sqrt{1-\left(\frac{d}{2(D-d)}\right)^2}$

Figure 18–How to calculate clearance

(2) Jamming is the wedging of three cables lying side by side in a conduit. This usually occurs when cables are being pulled around bends or when cables twist.

The jam ratio is calculated by slightly modifying the ratio D/d. A value of 1.05D is used for the inner diameter of the conduit because bending a cylinder creates an oval cross-section in the bend.

- If 1.05D/d is larger than 3.0, jamming is impossible.
- If 1.05D/d is between 2.8 and 3.0, serious jamming is probable.
- If 1.05D/d is less than 2.5, jamming is impossible but clearance should be checked.

Because there are manufacturing tolerances on cable, the actual overall diameter should be measured prior to computing the jam ratio.

(3) Use adequate lubrication of the proper type to reduce friction in conduit and duct pulls. Grease and oil type lubricants should not be used on nonmetallic sheathed cables. There are a number of commercially available wire pulling compounds (many of which are UL Listed) that are suitable for use with polymer jacketed cables. They usually consist of soap, talc, mica or the like, and are designed to have no deleterious effect on the cable. Graphite and other electrically conducting lubricants should not be used on nonshielded cables rated 2 kV and above. These materials can lead to tracking of the cable jacket.

(4) Avoid sharp bending of the cable at the first pulley in overhead installations by locating the payoff reel far enough away from the first pulley that the lead-in angle is kept relatively flat.

(5) After installation, check that end seals are still intact and have not been damaged to the point where water could enter. Apply plastic or rubber tape to help protect against invisible damage if the cable will be subjected to immersion or rain. This is particularly important if there will be a delay of some time between the pulling operation and splicing and terminating.

Installation and Testing

(6) When installing interlocked armor cables in cable tray, use a sufficient number of rollers to prevent the cable from dragging on the tray, which might result in excessive tension. Avoid sharp bends in the cable by using a conveyor sheave with multiple small rollers at all 45- and 90-degree bends.

(7) Keep adequate tension on the messenger in aerial cable installations to prevent sharp bends at pulleys. Do not release the tension on the messenger until it is secured to poles on both ends.

Pulling Tension Calculations

Pulling tension calculations are recommended in the design stage of all cable installations that are expected to fall in the moderate to difficult category. Software programs are commercially available that can perform sophisticated modeling of expected pulling tensions and sidewall pressures. These programs are recommended over manual methods. Below is an overview of the basic calculations. Additional information is available in IEEE 1185, IEEE 971, IEEE 576 and AEIC CG5.

(1) Maximum Pulling Tension

a. With pulling eye attached to copper conductors, the maximum pulling tension in pounds should not exceed 0.008 times the circular mil area.

b. With pulling eye attached to aluminum conductors, the maximum pulling tension in pounds should not exceed 0.006 times the circular mil area.

Example: For copper

$$T_M = 0.008 \times n \times CM$$

Where:

T_M = maximum tension, lb.

n = number of conductors

CM = circular mil area of each conductor

(2) Maximum Permissible Pulling Length

$$L_M = \frac{T_M}{C \times W}$$

Where:

L_M = maximum pulling length, feet (valid only for straight sections)

T_M = maximum tension, lb.

W = weight of cable per foot, lb.

C = coefficient of friction (typically 0.5 but can vary from 0.2 to 1.0 depending on condition of the duct and the amount of lubricant used)

(3) Bend Multipliers

For a curved section, the multipliers given below are applied to the tension calculated for the straight section preceding the bend.

Table 34–Bend multipliers for pulling tension calculations

Bend Angle Degrees	Multiplier	Bend Angle Degrees	Multiplier
15	1.14	75	1.94
30	1.30	90	2.20
45	1.48	105	2.50
60	1.70	120	2.86

Note: These multipliers are based on a coefficient of friction of 0.5. If the coefficient of friction were 1.0 instead of 0.5, the multipliers would have to be squared. If the coefficient of friction were 0.75, the multipliers would be raised to the one and one-half power.

Installation and Testing

Pulling Lubricants

Many commercial lubricants are available and may be employed to reduce pulling tensions provided they do not affect electrical or mechanical characteristics of the cable. The primary function of a pulling lubricant is to reduce the tension on the cable as it is installed in a duct. This is accomplished by reducing the friction (technically the coefficient of friction) between the cable and the inside surface of the conduit, i.e., it makes the cable more slippery. Cable pulling lubricants should be formulated for the conditions of the pull, be safe for the environment, not degrade the cable jacket and be easy to work with. Some LSZH (low smoke zero halogen) cables require special pulling lubricants such as Polywater LZ to prevent chemical damage to the jacket.

The quantity of lubricant required depends on various factors: the pull length, the condition and size of the conduit and the difficulty of the pull. The recommended average quantity of lubricant per pull is equal to:

$$Q = 0.0015 \times L \times D$$

Where Q is the quantity of lubricant needed in gallons, L is the length of the pull in feet and D is the inner diameter of the conduit in inches.

The appropriate quantity to use can vary by ± 50 percent from the average depending on installation conditions. Follow the manufacturer's instructions for the conditions affecting each pull.

Sidewall Pressure (SWP)

To prevent damage to a cable from pressure that develops when a cable is pulled around a bend under tension, the pressure must be kept as low as possible and should not exceed specified values. Sidewall pressure = tension out of the bend divided by bend radius. Cable manufacturers generally recommend a maximum SWP of 500 lb./ft. for most 600 V and medium-voltage power cables.

Minimum Bending Radii

Power Cables without Metallic Shielding

The minimum bending radii for both single- and multiple-conductor cable without metallic shielding are as follows:

Table 35–Minimum bending radii for cables without metallic shielding

Thickness of Conductor Insulation	Minimum Bending Radius as a Multiple of Cable Diameter		
	Overall Diameter of Cable in Inches		
(mils)	1.00 and less	1.01 to 2.00	2.01 and Greater
169 and less	4	5	6
170 and larger	5	6	7

Installation and Testing

Example:
If minimum bending radius is six times cable O.D. and cable O.D. is 2.0 inches, the minimum bending radius is 12 inches (minimum bending diameter is 24 inches).

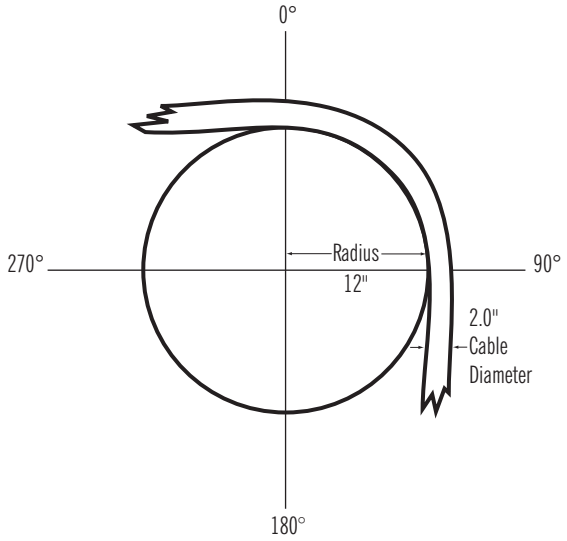


Figure 19—Calculating minimum bending radius

Power Cables with Metallic Shielding
The minimum bending radius for all single-conductor cables with metallic shielding is 12 times the overall diameter of the cable. For multiconductors, it is seven times the overall diameter or 12 times the individual conductor diameter, whichever is greater.

Portable Cables
The minimum bending radius for portable cables during installation and handling in service is six times the cable diameter for cables rated 5,000 volts and less. For cables rated over 5,000 volts use eight times the cable diameter. For flat twin cables, the minor diameter is used to determine the bending radius.

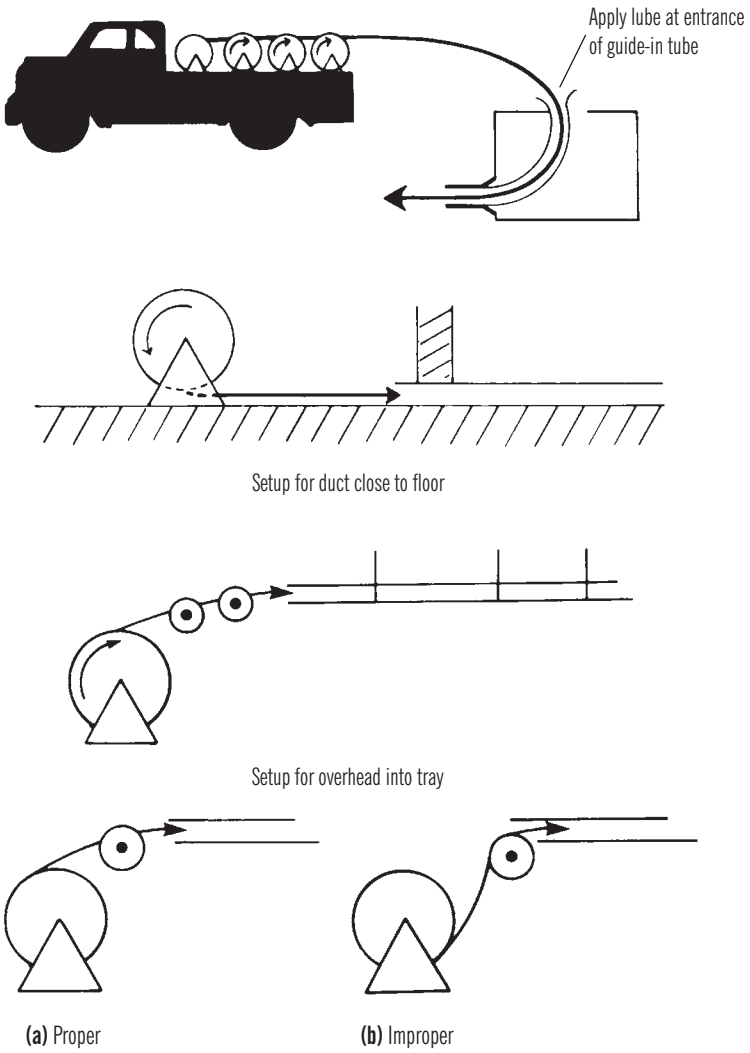
Fiber Optic Cables
Minimum bending radius for fiber optic cable is typically 10 times the cable diameter when under no tension and 15 times diameter at rated maximum tension. The manufacturer should be consulted for specific product limits.

Interlocked Armor or Corrugated Sheath (Type MC) Cables
The minimum bending radius for Type MC cable is seven times the external diameter of the metallic sheath.

Sources: NEC Articles 300.34, 330.24, 336.24 and 727.10
NEMA WC58 (ICEA S-75-381)
NEMA WC74 (ICEA S-93-639)
IEEE 1185
NEMA WC70 (ICEA S-95-658)

Installation and Testing

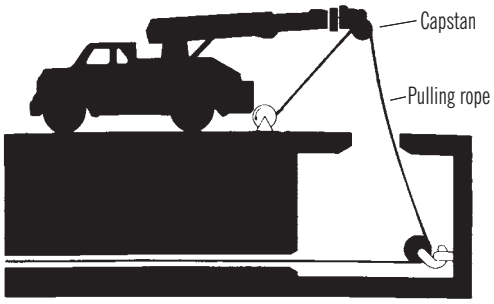
INSTALLATION METHODS

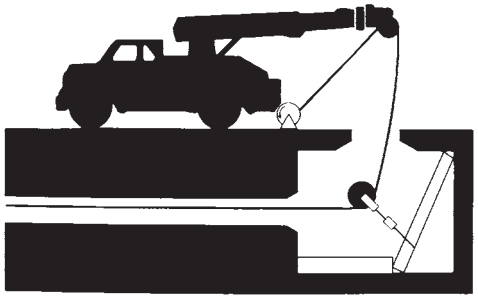


The feed-in setup should unreel the cable with the natural curvature (a) as opposed to a reverse "S" curvature (b).

Figure 20—Cable pulling setups

Installation and Testing





A setup with timbers because pulling eyes were not available

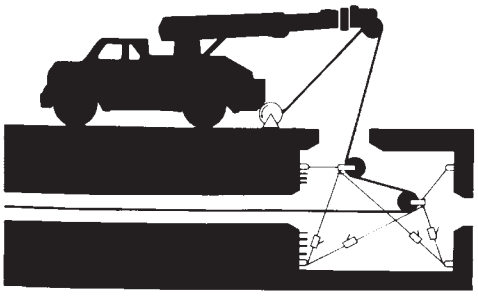
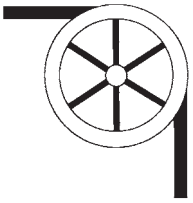


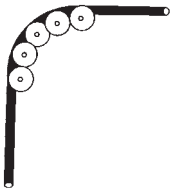
Figure 21–Cable Pulling Setups

Single sheave

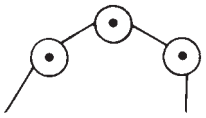


Single sheaves should be used only for guiding cables. Arrange multiple blocks if necessary to maintain minimum bending radii whenever cable is deflected.

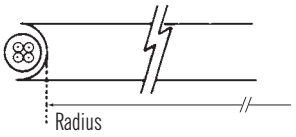
Sheave assembly



For pulling around bends, use multisheave assemblies (also called conveyor sheaves) of the appropriate radius.



The pulleys must be positioned to ensure that the effective curvature is smooth and deflected evenly at each pulley. Never allow a polygon curvature to occur as shown.



The fit of the pulley around the cable is also important when the pulling tension is high (for example, pulleys at the top of a vertical drop). Remember to use the radius of the surface over which the cable is bent, not the outside flange diameter of the pulley. A 10-inch cable sheave typically has an inside (bending) radius of 3 inches!

Figure 22–Cable Pulling Setups

Installation and Testing

HIPOT TESTING

Overview

This section provides an overview of high-potential DC testing of power cables. For more details, see IEEE Standards 400 and 400.1. All tests made after cable installation and during the guarantee period should be made in accordance with applicable specifications. All safety precautions must be observed during testing at high voltage. Read and understand and follow the operator's manual for the particular test set being used!

It should be also noted that other field tests are growing in popularity – including VLF (very low frequency) and PD (partial discharge) test methods. IEEE 400.2 and 400.3 contain additional details.

Test Equipment

Direct current test equipment is commercially available with a wide range of voltages. Accessory equipment is necessary to safely conduct high-voltage tests such as safety barriers, rubber gloves and nonconducting hard hats. Consult appropriate safety officer.

Test Procedure

Refer to IEEE Standard 400. Acceptable procedures, although varying slightly in technique, have more or less been standardized as either a "withstand test" or a "time-leakage current test."

Before performing any DC overpotential tests:

- All equipment must be disconnected from the cable circuit, e.g., disconnect transformers, switch taps, motors, circuit breakers, surge arrestors, etc. This will preclude damage to such equipment and will prevent test interruptions due to flashovers and/or trip-outs resulting from excessive leakage current.
- Establish adequate clearance between the circuit test ends and any grounded object, and to other equipment not under test (approximately 0.25 inches per kV).
- Ground all circuit conductors not under test and all cable shields as well as nearby equipment.
- Consult termination manufacturer for maximum test voltage recommendations and time limitations.

The direct current test may be applied either continuously or in predetermined steps to the maximum value in accordance with applicable specifications:

- Continuous Method – Apply test voltage at an approximate rise rate of 1 kV per second or 75 percent of the rated current input of the equipment, whichever is less. Some equipment will take longer to reach the maximum test voltage because of the amount of charging current.
- Step Method – Apply test voltage slowly in five to seven increments of equal value, to the maximum specified. Allow sufficient time at each step for the leakage current to stabilize. Normally this requires only a few seconds unless cable circuits of high capacitance are involved. Record leakage current at each step.
- Maintain the test voltage at the prescribed value for the time designated in applicable specifications.
- At the end of the test period, set the test set voltage control to zero. Allow the residual voltage on the circuit to decay then ground the conductor just tested.
- Caution – It should be recognized that DC charges on cable can build up to potentially dangerous levels if grounds are removed too quickly. Maintain solid grounds after the test on the cable for at least four times the duration of the test. It is a good safety practice to maintain these grounds longer and while reconnecting circuit components.

Acceptance Testing – After installation and before the cable is placed in regular service the specified test voltage is applied for 15 consecutive minutes.

Proof Testing – At any time during the period of guarantee, the cable circuit may be removed from service and tested at a reduced voltage (normally 65 percent of the original acceptance value) for five consecutive minutes.

Record the leakage current at one minute intervals for the duration of the test. A constant or decreasing leakage current with respect to time at maximum test voltage is the usual acceptance criterion for DC hipot testing.

Additional Considerations

High-potential testing of medium-voltage power cables is usually performed with negative polarity connected to the conductor.

High-potential testing is a tool for determining insulation resistance at high voltages. Effective insulation resistance of the cable system may be calculated by means of Ohm's Law: $R = V/I$. Restated another way the relation is:

$$\text{Megohms} = \frac{\text{Kilovolts}}{\text{Microamperes}} \times 1{,}000$$

Insulation resistance (IR) may also be measured with instruments that give a direct reading at 500 volts (or higher, depending on the model). IR in general has little or no direct relationship to breakdown strength.

Installation and Testing

The significance of conducting DC high-voltage tests on nonshielded, nonmetallic sheathed cable is dependent upon the environment in which it is installed because the characteristics of the return circuits are unknown. The environment must be carefully considered or test results may not be significant. In fact, these tests can result in damage to the cable insulation.

Humidity, condensation or actual precipitation on the surface of a cable termination can increase the leakage current by several orders of magnitude. Humidity also increases the termination leakage current, which is included in the total leakage current. Wind prevents the accumulation of space charges at all bare energized terminals. This results in an increase of corona. It is desirable to reduce or eliminate corona current at the bare metal extremities of cable or terminations. This may be accomplished by covering these areas with plastic envelopes, plastic or glass containers, plastic wrap (e.g., Saran® or Handiwrap®) or suitable electrical putty.

Routine periodic DC maintenance testing of cable for the evaluation of the insulation strength is not a common practice. Some power cable users have adopted a program of testing circuits during planned outages, preferring possible breakdowns during testing rather than experiencing a service outage. It is nearly impossible to recommend test voltage values for maintenance. An arbitrary test voltage level could break down a cable circuit that would otherwise render long trouble-free service at normal operating AC voltage.

One advantage of DC high-voltage testing is that it can detect conducting particles left on the creepage surface during splicing or termination.

Test equipment should be supplied from a stable, constant voltage source. Do not use the same source that is supplying arc welders or other equipment causing line voltage fluctuations. The output voltage of the test set must be filtered and regulated. Consider using a portable motor driven alternator to energize the test set.

Common Testing Problems

High-leakage current can be caused by:

- Failure to guard against corona
- Failure to clean insulation surface
- Failure to keep cable ends dry (high relative humidity, dampness, dew, fog, wind, snow)
- Failure to provide adequate clearance to ground
- Improper shield termination.

Erratic readings can be caused by:

- Fluctuating voltage to test set
- Improper test leads.

Test Voltage

DC hipot test voltages are specified by ICEA and NEMA for tests conducted during and after installation as follows:

- At any time during installation, a DC proof test may be made at a voltage not exceeding the test voltage specified below, applied for five consecutive minutes.
- After the cable has been completely installed and placed in service, a DC proof test may be made at any time within the first five years at the test voltage specified below, applied for five consecutive minutes. After that time, DC testing is not recommended.

Table 36–Maximum DC test voltages for shielded power cables

Rated Voltage	Maximum DC Field Test Voltages in kV			
	During Installation		First 5 Years	
Phase-to-Phase (kV)	100 Percent (Grounded)	133 Percent (Ungrounded)	100 Percent (Grounded)	133 Percent (Ungrounded)
5	28	36	9	11
8	36	44	11	14
15	56	64	18	20
25	80	96	25	30
28	84	100	26	31
35	100	124	31	39
46	132	172	41	54

Sources: ICEA S-94-649 Appendix E, NEMA WC 74 (ICEA S-93-639) Appendix F and ICEA S-97-682 Appendix E

Installation and Testing

Evaluation of Results

The test current will momentarily increase for each voltage increment due to the charging of capacitance and dielectric absorption characteristics of the cable – ultimately leaving only the conduction current plus any external surface leakage or corona currents. The time required to reach steady-state current depends on insulation temperature and material. If, without any increase in applied voltage, the current starts to increase slowly at first but at an increasing rate, gradual insulation failure may be in progress. This process will probably continue until eventual failure of the cable unless the voltage is rapidly reduced. Rubber and nonpressurized impregnated paper insulations will usually exhibit this type of insulation failure; other insulations rarely exhibit this type of failure.

If at any time during the test, a violent increase in current occurs accompanied by tripping of the test set, failure or flashover has probably occurred in the cable, a splice or termination. A failure can be confirmed by the inability to sustain the second application of the test voltage.

FAULT LOCATING

One of the many types of fault locating equipment is the time domain reflectometer (TDR). These units are portable, commercially available devices that can be used in the field to locate some types of conductor breaks or shorts. Connected to the end of a cable, the device functions much like radar, sending out low-voltage pulses that travel the length of the cable and echo back when an open, short or tap is encountered. The device can usually locate faults within ± 2 percent of the cable length. However, TDRs are only capable of locating breaks or shorts having an impedance different than that of the cable. For most cables, this includes shorts having a resistance of less than a few ohms and opens having a resistance greater than several hundred ohms. Splices, taps, etc., sometimes distort the echo and can mask the fault. Nevertheless, the method is nondestructive and is used successfully on faults having characteristics within the capabilities of the method.

MEGGER TESTING

If the DC voltage applied during an insulation resistance (IR) test on power cables is relatively low (0.6 to 2.5 kV), the test is often referred to as a "Megger" test. Low-voltage IR tests are particularly useful in detecting shorts due to installation or handling damage to 600-volt-rated cables.

An inherent limitation of low-voltage IR tests is their interpretation. The readings obtained from such testing on nonshielded, nonmetallic-sheathed cable is very dependent upon the environment because the environment determines the characteristics of the return circuit. Low resistance readings may be caused by contaminated or moist cable ends, high humidity, etc. Failure to clean water based cable pulling lubricants from the cable test ends has caused erroneous rejection of good cable. Refer to the figures below for suggested hook-up.

Reminders:

- **Safety** – Follow the test equipment supplier's instructions. Stay clear of energized cable. Operators must know the equipment. Be sure shields are grounded! Remember that insulated conductors are capacitors.
- **Voltages** – Check cable and termination manufacturer's guidelines.
- **Records** – Keep detailed records and provide a copy to the owner.

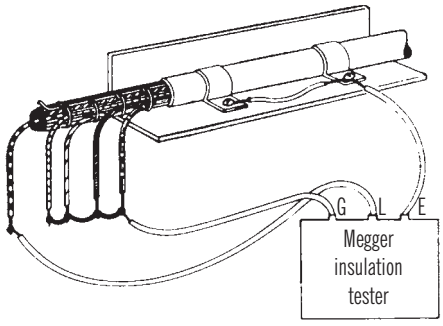


Figure 23–Connections for testing insulation resistance between one wire and ground, without being affected by leakage to other wires. Note use of the guard (G) connection

Installation and Testing

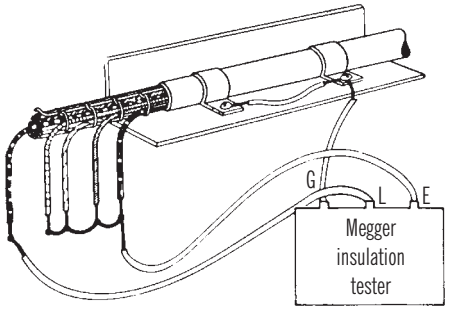


Figure 24—Connections for testing insulation resistance between one wire and all other wires, without being affected by leakage to ground

MOISTURE REMOVAL

Purging Water from Conductor Strand or Shield

Cables Not Yet Installed: Remove end seals. Position one cable end to its lowest possible elevation. At the cable end having the highest elevation, apply two layers of half-lapped HV insulating tape to act as a sealing cushion. Connect the cable ends to a dry nitrogen or dry air supply using hoses, valves, fittings and flow regulators as shown in Figure 25

Attach a one-gallon plastic bag to the exhaust end of the cable. Secure the bag with tape or clamps. Make a small vent hole by clipping one bag corner.

As shown, several cables may be connected to the gas supply. Dry nitrogen is available from welding gas suppliers. Apply 15–25 psi (gauge). Maintain gas flow for at least eight hours after all indications of moisture have stopped.

Water vapor may be readily detected by sprinkling one tablespoon of anhydrous cupric sulfate in the plastic bag, which turns blue instead of "off" white when wet. The sulfate is available from scientific laboratory supply houses. A hardware store humidity gauge may also be used.

Installed Cables: The splices and terminations must be removed if they interfere with the flow of air or nitrogen. The cable can then be purged as described above.

All Cables: Purge the shield separately from the insulated strands; otherwise the nitrogen gas will only flow through the path offering the least resistance.

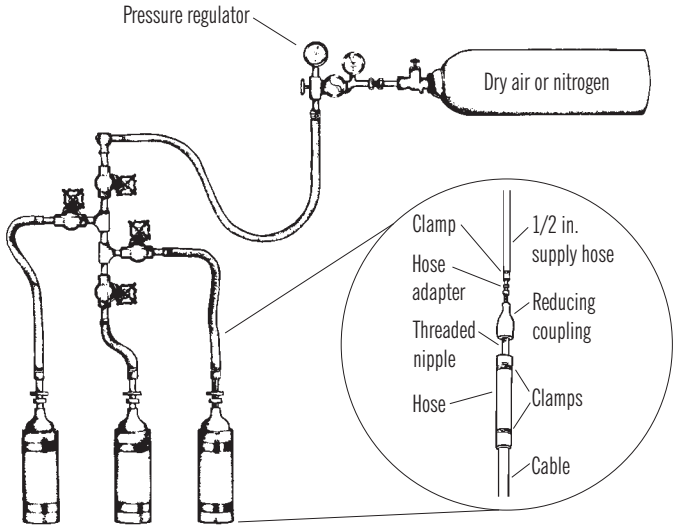


Figure 25—Moisture removal equipment

Installation and Testing

CABLE TRAY SYSTEMS

Support Span

The support span length is an important consideration as it affects the strength of the system and the length of the straight sections required. Tray types typically used for various span lengths include:

- Short span: 6- to 8-foot support spacing (use 12-foot sections)
- Intermediate span: 8- to 12-foot support spacing (use 12-foot sections)
- Long span: 16- to 20-foot support spacing (use 20-foot sections)
- Extra long span: over 20-foot to 30-foot support spacing (use 24- or 30-foot sections).

Working Load

The working load depends on tray size (width, loading depth and strength). Considerations include:

- Types and numbers of cables to support (total cable load in lb. per linear foot [lb./ft.])
- Power cables in a single layer – width is key issue (refer to applicable electrical code)
- Low-voltage cables in a stacked configuration – key issues are loading depth and width (refer to applicable electrical code).

Additional Load Considerations

- 200-lb. concentrated load – industrial installations
- Ice, wind, snow loads – outdoor installations

Installation Environment

Tray material and finish have a significant impact on tray performance in any given environment. Typical tray types used in various environments are shown below.

- Indoor dry (institutional, office, commercial, light industrial): aluminum, pregalvanized steel
- Indoor industrial (automotive, pulp and paper, power plants): aluminum, pregalvanized steel, possibly hot-dipped galvanized after fabrication (HDGAF)
- Outdoor industrial (petrochemical, automotive, power plants): aluminum, hot-dipped galvanized after fabrication (HDGAF)
- Outdoor marine (off shore platforms): aluminum, stainless steel, fiberglass
- Special (petrochemical, pulp and paper, environmental air): contact manufacturer

Installation and Testing

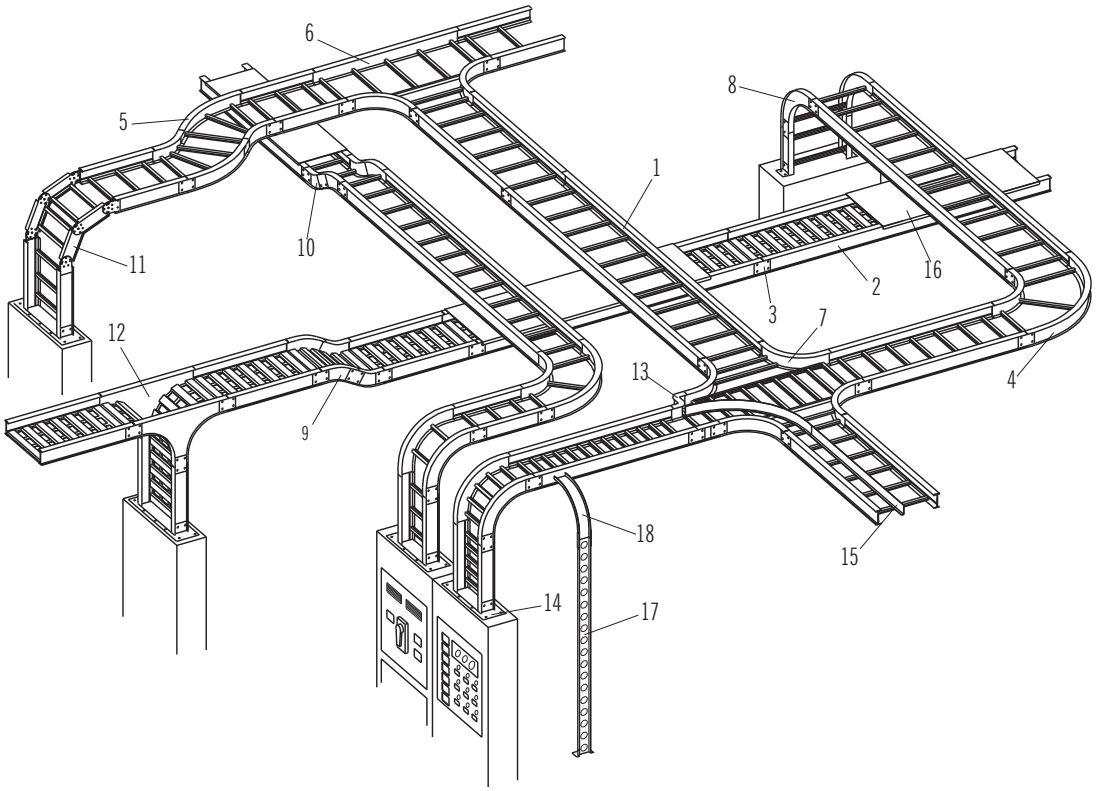


Figure 26–Cable tray system

Nomenclature

The following items are keyed by number to the parts illustrated in Figure 26:

1. Ladder-type cable tray
2. Ventilated trough-type cable tray
3. Straight splice plate
4. 90 degrees horizontal bend, ladder-type cable tray
5. 45 degrees horizontal bend, ladder-type cable tray
6. Horizontal tee, ladder-type cable tray
7. Horizontal cross, ladder-type cable tray
8. 90 degrees vertical outside bend, ladder-type cable tray
9. 45 degrees vertical outside bend, ventilated-type cable tray
10. 30 degrees vertical inside bend, ladder-type cable tray
11. Vertical bend segment (VBS)
12. Vertical tee down, ventilated trough-type cable tray
13. Left-hand reducer, ladder type cable tray
14. Frame type box connector
15. Barrier strip straight section
16. Solid flanged tray cover
17. Ventilated channel straight section
18. Channel cable tray, 90 degrees vertical outside bend

Additional Information

Additional information on cable tray systems is contained in NEMA VE-1 “Metal Cable Tray Systems,” NEMA VE-2 “Cable Tray Installation Guidelines,” Article 392 of the National Electrical Code (NFPA 70) and on the Cable Tray Institute Web site at www.cabletrays.com.

Packaging of Wire and Cable

REEL SIZE

Selection of proper reel (spool) size depends on the length and overall diameter (O.D.) of the cable or wire to be rewound. A reel not matched to the weight of the cable wound on it may be damaged during shipment.

All wire and cable has a minimum safe bending radius when packaged on a reel. (These values are different than **installation** bending radius.) If cable is subjected to bends sharper than the minimum radius, damage to the material is likely. The minimum drum (hub) diameters given in Table 37 should be observed.

Reel Terminology

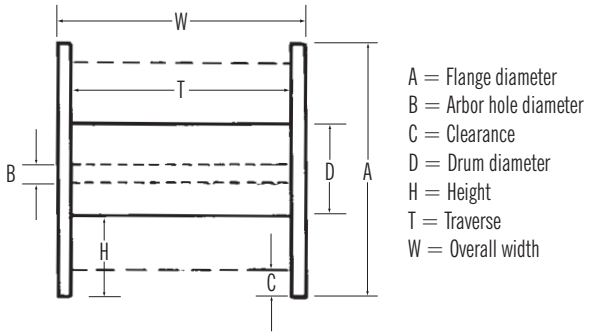


Figure 27–Reel terminology

Minimum Drum Diameter

Table 37–Minimum drum diameter for wire and cable

Type of Cable	Minimum Drum Diameter as a Multiple of Outside Diameter of Cable
A. Single- and multiple-conductor nonmetallic-covered cable	
1. Nonshielded and wire shielded, including cable with concentric wires	
a. 0–2,000 volts	10
b. Over 2,000 volts	
(1) Nonjacketed with concentric wires	12
(2) All others	14
2. Tape shielded	
a. Helically applied	14
b. Longitudinally applied flat tape	20
c. Longitudinally applied corrugated tape	14

Continued on next page >>

Packaging of Wire and Cable

Table 37–Minimum drum diameter for wire and cable (continued)

Type of Cable		Minimum Drum Diameter as a Multiple of Outside Diameter of Cable
B. Single- and multiple-conductor metallic-covered cable		
1. Tubular metallic sheathed		
a. Lead		14
b. Aluminum		
(1) Outside diameter – 1.750 in. and less		25
(2) Outside diameter – 1.751 in. and larger		30
2. Wire armored		16
3. Flat tape armored		16
4. Corrugated metallic sheath		14
5. Interlocked armor		14
C. Multiple single conductors cabled together without common covering, including self-supporting cables – the circumscribing overall diameter shall be multiplied by the factor given in item A or B and then by the reduction factor of 0.75.		
D. Combinations – For combinations of the types described in items A, B and C, the highest factor for any component type shall be used.		
E. Single- and multiple-conductor cable in coilable nonmetallic duct		
Outside diameter of duct, inches	0.0–0.50	26
	0.51–1.00	24
	1.01–1.25	22
	1.26–1.50	21
	Over 1.50	19
F. Fiber optic cables		20*
G. Bare conductor		20

Notes to Table 37:

1. When metallic-sheathed cables are covered only by a thermosetting or thermoplastic jacket, the outside diameter is the diameter over the metallic sheath itself. In all other cases, the outside diameter is the diameter outside of all the material on the cable in the state in which it is to be wound upon the reel.

2. For "flat-twin" cables (where the cable is placed upon the reel with its flat side against the drum), the minor outside diameter shall be multiplied by the appropriate factor to determine the minimum drum diameter.

3. The multiplying factors given for item E refer to the outside diameter of the duct.

* Some manufacturers recommend 30.

Sources: NEMA WC 26 (EEMAC 201) Binational Wire and Cable Packaging Standard

Packaging of Wire and Cable

REEL HANDLING

Storage and Shipment

Except for reels less than two feet in diameter and weighing less than 200 pounds, reels should be stored and shipped upright, i.e., resting on both flanges. Do not store or ship reels on their side. Storage or shipment of the reel while lying on its side greatly increases the likelihood of tangling and damage to the cable.

Both cable ends should be sealed against the entrance of moisture. Cables larger than 1/2 inch in diameter should be sealed with tight-fitting heat-shrinkable or hot-dipped (peel coat) end caps designed for the purpose. Smaller diameter cables should be sealed with PVC tape such as 3M Scotch 33 or with end caps (end caps preferred).

CAUTION: Make sure staples are shorter than flange thickness so that they cannot extend through the flange and damage the cable. Caution must also be used to prevent damage to the cable end as it is frequently utilized for hipot, continuity, or other tests. Be sure all staples and nails that might damage the cable are removed.

If reels of cable will be stored for longer than one month, they should be protected from rain and direct exposure to sunlight to maximize service life.

Moving and Lifting

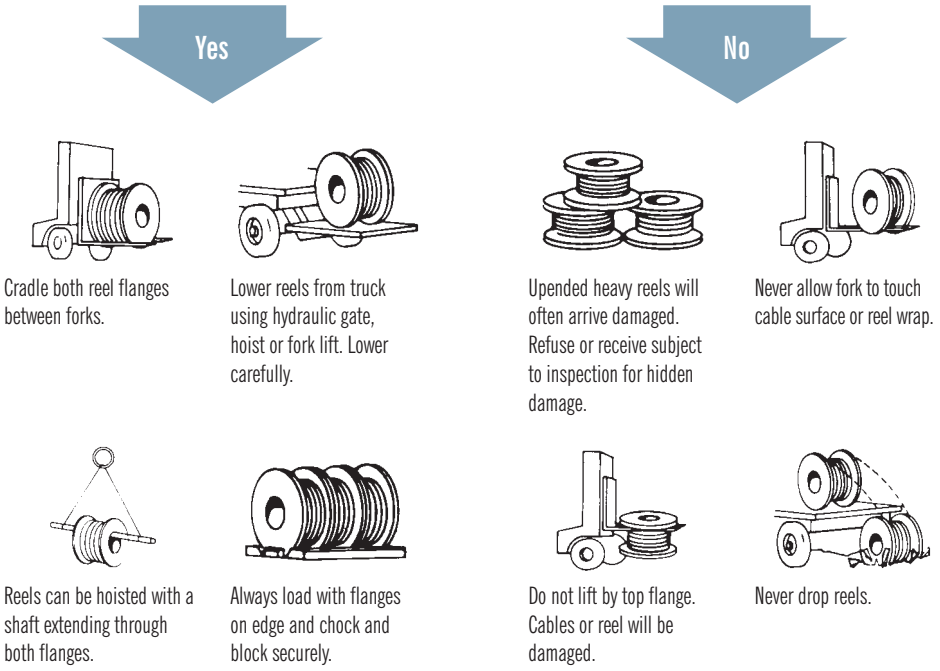


Figure 28—Proper randling of cable reels

Packaging of Wire and Cable

Table 38–Conversion factors

Frequently used conversions are shown in **bold type**. To convert in the reverse direction, divide by the factor given in the table.

To Convert From	To	Multiply By
Area		
Circular mils	Square inches	0.0000007854
Circular mils	Square mils	0.7854
Circular mils	**Square millimeters**	**0.0005067**
Square centimeters	Square inches	0.155
Square feet	Square meters	0.0929
Square inches	Circular mils	1,273,240.00
Square inches	Square centimeters	6.4516
Square inches	Square millimeters	645.16
Square inches	Square mils	1,000,000.00
Square meters	Square feet	10.764
Square millimeters	Square inches	0.00155
Square millimeters	**Circular mils**	**1,973.53**
Square mils	Circular mils	1.2732
Square mils	Square inches	0.000001
Length		
Centimeters	Inches	0.3937
Centimeters	Feet	0.03281
Feet	Centimeters	30.48
Feet	**Meters**	**0.3048**
Inches	Centimeters	2.54
Inches	Meters	0.0254
Inches	**Millimeters**	**25.4**
Inches	Mils	1,000.00
Kilometers	Miles	0.6214
Meters	**Feet**	**3.2808**
Meters	Inches	39.3701
Meters	Yards	1.0936
Miles	Kilometers	1.6093
Millimeters	**Inches**	**0.03937**
Millimeters	Mils	39.3701
Mils	Inches	0.001
Mils	Millimeters	0.0254
Yards	Meters	0.9144

Continued on next page >>

Conversion Tables

Table 38–Conversion factors (continued)

Frequently used conversions are shown in **bold type**. To convert in the reverse direction, divide by the factor given in the table.

To Convert From	To	Multiply By
Power		
Foot-pounds per minute	Horsepower	0.0000303
Foot-pounds per minute	Watts	0.0226
Foot-pounds per second	Horsepower	0.001818
Foot-pounds per second	Watts	1.356
Horsepower	Foot-pounds per minute	33,000.00
Horsepower	Foot-pounds per second	550.00
Horsepower	**Watts**	**746**
Kilogram-meters per sec.	Watts	9.807
Watts	Foot-pounds per minute	44.25
Watts	Foot-pounds per second	0.7375
Watts	Horsepower	0.001341
Watts	Kilogram-meters per sec.	0.1020
Energy		
British thermal units	Foot-pounds	778.00
British thermal units	Joules	1,055.00
British thermal units	Watt-hours	0.293
Foot-pounds	British thermal units	0.001285
Foot-pounds	Joules	1.356
Foot-pounds	Kilogram-meters	0.1383
Gram calories	Joules	4.186
Joules	British thermal units	0.000947
Joules	Ergs	107.00
Joules	Foot-pounds	0.7375
Joules	Gram-calories	0.2388
Joules	Kilogram-meters	0.10198
Kilogram-meters	Foot-pounds	7.233
Kilogram-meters	Joules	9.8117
Watt-hours	British thermal units	3.4126

To Convert From	To	Multiply By
Weight		
Kilograms	Pounds	2.205
Kilograms per kilometer	**Pounds per 1,000 feet**	**0.6719**
Ohms per kilometer	Ohms per 1,000 feet	0.3048
Ohms per 1,000 feet	Ohms per kilometer	3.2808
Ohms per 1,000 yards	Ohms per kilometer	1.0936
Pounds	Kilograms	0.4536
Pounds per 1,000 feet	**Kilograms per kilometer**	**1.488**
Pounds per 1,000 yards	Kilograms per kilometer	0.4960
Pounds per 1,000 yards	Pounds per kilometer	1.0936
Newtons	Pound-force	0.2248
Pound-force	Newtons	4.4482
Miscellaneous		
Diameter circle	Circumference	3.1416
Diameter circle	Side of equal square	0.8862
Diameter sphere cubed	Volume of sphere	0.5236
U.S. gallons	Imperial gallons (British)	0.8327
U.S. gallons	Cubic feet	0.1337
U.S. gallons	Pounds of water (20°C)	8.33
Cubic feet	Pounds of water (4°C)	62.427
Feet of water (4°C)	Pounds per square inch	0.4336
Inches of mercury (0°C)	Pounds per square inch	0.4912
Knots	Miles per hour	1.1516

Conversion Tables

KVA TO AMPERES

Table 39–kVA to amperes

Single-phase Circuits				
kVA Rating	Current in Amperes at: 120 V	240 V	480 V	600 V
1	8.33	4.16	2.08	—
1.5	12.5	6.24	3.12	—
2	16.66	8.33	4.16	—
3	25	12.5	6.1	—
5	41	21	10.4	—
7.5	62	31	15.6	—
10	83	42	21	—
15	124	62	31	—
25	208	104	52	—
37.5	312	156	78	—
50	416	208	104	—
75	624	312	156	—
100	830	415	207	—
167	1,390	695	348	—
200	1,660	833	416	—
3	8.3	7.2	3.6	2.9
6	16.6	14.4	7.2	5.8
9	25.0	21.6	10.8	8.7
15	41.6	36	18	14.4
30	83.0	72	36	28.8
45	125	108	54	43
75	208	180	90	72
112.5	312	270	135	108
150	415	360	180	144
200	554	480	240	192
225	625	540	270	216
300	830	720	360	288
400	1,110	960	480	384
500	1,380	1,200	600	480
750	2,080	1,800	900	720

HORSEPOWER TO AMPERES

Table 40–Horsepower to amperes

Three-phase Motor			
Horsepower Rating	Current in Amperes at: 208 V	240 V	480 V
1	2.9	2.5	1.2
2	5.8	5.0	2.5
5	14.4	12.5	6.2
10	28.8	25.0	12.5
20	57.6	49.9	25.0
50	144	125	62.4
100	288	250	125
200	576	500	250
300	–	–	624

Note: Based on a motor efficiency of 90 percent and system power factor of 0.8. Above values are theoretical values based solely on numerical calculations. Check with applicable codes for specific ampere values to size overcurrent protective devices or conductors. For example, see Table 430.250 of the 2008 National Electrical Code.

Glossary

#

0–10 V—A common analog process control signal voltage range.

4–20 mA—A common analog process control signal current range.

A

A—Common abbreviation for ampere (see AMPERE).

AAAC—All-aluminum alloy conductor. A special high-strength aluminum alloy.

AAR—American Association of Railroads.

ABRASION RESISTANCE—Ability of a material to resist surface wear.

ABSORPTION—Physical phenomenon that attenuates light traveling in fibers by converting it into heat, thereby raising the fiber's temperature. Absorption results from impurities and defects in the glass structure.

AB SWITCH—A coaxial cable switch capable of switching one cable to one of two branch cables, A or B.

AC—(1) Alternating current. (2) A UL cable type (armored cable) with flexible metal tape armor.

ACAR—Aluminum conductor, aluminum-reinforced cable. Used in overhead transmission and distribution.

ACCELERATED LIFE TEST—A test in which a cable is subjected to extreme conditions to determine the life of a cable.

ACCR—Aluminum conductor, composite reinforced aerial cable. Contains a ceramic strength member to reduce sag at high temperatures (up to 210°C).

ACRF—Attenuation to crosstalk ratio far-end. Communications cable specification. See ELFEXT.

ACSR—Aluminum conductor, steel reinforced. A bare composite of aluminum and steel wires, usually aluminum around steel.

ACSR/AW—Aluminum conductor, steel reinforced using aluminum clad steel wire.

ACSR/AZ—Aluminum conductor, steel reinforced using aluminum coated steel wire.

ACSR/GA—Aluminum conductor, steel reinforced using Class A zinc-coated steel wire.

ACSR/GB—Aluminum conductor, steel reinforced using Class B zinc-coated steel wire.

ACSR/GC—Aluminum conductor, steel reinforced, using Class C zinc-coated steel wire.

ACSS—Aluminum conductor steel supported. This transmission line has fully annealed aluminum for better sag and high-temperature performance than ACSR.

A/D CONVERTER–ANALOG/DIGITAL—An circuit device that converts analog signals to digital signals.

ADDRESS—The digital location of a terminal, a peripheral device, a node, or any other unit or component in a network, or process control system.

ADHESIVE-BONDED—Cables bonded by adding an adhesive coating to the surface of the cable components, then joining and curing the adhesive to form a cable. See BONDED CABLE.

ADMITTANCE—A measure of how easily alternating current flows in a circuit. Admittance is the reciprocal of impedance. It is expressed in mhos.

AEIC—Association of Edison Illuminating Companies. Electric energy industry association.

AERIAL CABLE—A cable suspended in the air on poles or other overhead structure.

AF—Audio frequency.

AFCI—Arc fault circuit interrupter. A protective device that detects arcing and breaks the circuit to protect the load when arcing is detected.

AGC—Automatic gain control. A feedback circuit that automatically adjusts the system gain.

AGING—The irreversible change of material properties after exposure to an environment for an interval of time.

AIA—Aluminum interlocked armor. A type of cable sheath consisting of interlocked pieces of aluminum armor.

AIR CORE CABLE—A cable in which the interstices in the cable core are not filled with a moisture barrier.

AIRCRAFT WIRE—An electrical wire primarily designed for the extreme conditions (temperature, altitude, solvents, fuels, etc.) of airborne equipment.

AIR SPACED COAX—A coaxial cable in which air is basically the dielectric material. The conductor may be centered by means of a spirally wound synthetic filament, beads or braided filaments. This construction is also referred to as an air dielectric.

AL—Aluminum

ALLOY—A substance (usually metallic) composed of two or more individual substances.

ALS—Aluminum sheathed. A type of cable consisting of insulated conductors enclosed in a continuous, closely fitting aluminum tube. Listed type in the Canadian Electric Code.

ALTERNATING CURRENT—Electric current that periodically reverses direction. Alternating current is generally abbreviated AC.

AM—Amplitude modulation. A method of adding information to an electronic signal where the amplitude of the wave is changed to convey the added information.

AMBIENT—Conditions existing at a location prior to energizing of equipment (example: ambient temperature).

AMPACITY—The rms current that a device can safely carry within specified temperature limitations in a specified environment: dependent upon a) temperature rating; b) power loss; c) heat dissipation; and d) applicable codes

AMPERE—A standard unit of current. Designated as the amount of current that flows when one volt of EMF (electromotive force) is applied across one ohm of resistance. An ampere of current is flowing when one coulomb of charge is passing a point every second.

AMPERE-TURN—The product of amperes times the number of turns in a coil.

AMPLIFIER—A device used to boost the strength of an electronic signal.

AMPLITUDE—The peak value of a electrical signal.

AMPLITUDE MODULATION (AM)—A method of adding information to an electronic signal where the amplitude of the wave is changed to convey the added information.

ANALOG—A continuously varying waveform that has not been digitized.

Glossary

ANNEAL—To soften and relieve strains in any solid material, such as metal or glass, by heating to just below its melting point and then slowly cooling it. This also generally lowers the tensile strength of the material, while improving its flex life.

ANNEALED WIRE—See SOFT WIRE.

ANNULAR CONDUCTOR—A number of wires stranded in reversed concentric layers around a core.

ANNUNCIATOR WIRE—Usually single solid copper, sometimes twisted pair or triplexed for open wiring of bell circuits and other low-voltage systems.

ANSI (American National Standards Institute)—A not-for-profit organization that publishes nationally recognized standards.

ANTENNA LEAD-IN WIRE—Not coaxial; parallel twin lead construction, plastic jacketed with fixed 300-ohm impedance for connecting a remote antenna to a receiver.

ANTENNA ROTOR CABLE—Multiconductor flat or round cable used to supply power to a motorized antenna and control wires for changing direction of rotation.

ANTIOXIDANT—Retards or prevents degradation of materials exposed to oxygen (air).

APPLIANCE WIRING MATERIALS (AWM)—A classification covering insulated wire and cable for internal wiring of appliances and equipment. UL 758 is the AWM standard. AWM comes in many different styles.

APPARENT POWER—The product of the voltage and amperage (VA) in a system. Wiring must be sized to handle the apparent power, and utilities charge extra for loads that require large amounts of reactive power. For this reason, large industrial loads are often power factor corrected using large capacitors to prevent drawing the reactive power needed from the utility distribution system, instead drawing from the capacitors and presenting a less reactive load to the grid.

ARAMID YARN—Strength elements that provide tensile strength, support and additional protection for fiber bundles. Kevlar is a brand name of aramid fiber.

ARC RESISTANCE—The ability of a material to resist the action of a high-voltage electrical arc, usually stated in terms of the time required to render the material electrically conductive.

ARMATURE—(1) Rotating machinery: the member in which alternating voltage is generated. (2) Electromagnet: the member which is moved by magnetic force.

ARMOR—Mechanical protector for cables; usually a helical winding of metal tape, formed so each convolution locks mechanically upon the previous one (interlocked armor); may be a formed metal tube (CCW) or a helical wrap of wires.

ARMOR-X—Southwire's trademark for CCW aluminum armor.

ARRHENIUS PLOT—A statistical method used to predict time-to-failure, based on a device's performance at different temperatures. One method for generating this plot is given in IEEE Standard 101.

ASCII—American National Standard Code for Information Interchange. A seven bit plus parity code established by the American National Standards Institute to achieve compatibility among data services and consisting of 96 displayed upper and lower case characters and 32 hidden control codes.

ASKAREL—Synthetic insulating oil that is nonflammable but very toxic. It has been replaced by silicone oils.

ASME—The American Society of Mechanical Engineering, a not-for-profit professional organization.

ASTM—American Society for Testing and Materials. An organization that sets standards on various material tests for industry.

ATTENUATION—The decrease in magnitude of a signal as it travels through any transmitting medium, such as a cable, circuitry or free air. Attenuation is measured as a ratio or as the logarithm of a ratio (decibel).

ATTENUATION CONSTANT—A rating for a cable or other transmitting medium, which is the relative rate of amplitude decrease of voltage or current in the direction of travel. It is measured in decibels per unit length of cable.

AUDIO—A term used to describe sounds within the range of human hearing. Also used to describe devices that are designed to operate within this range.

AUDIO FREQUENCY—The range of frequencies audible to the human ear. Usually 20–20,000 Hz.

AUI—Attachment unit interface. The interface between the Ethernet/IEEE 802.3 controller and the baseband transceiver or broadband modem.

AWG—American Wire Gauge. A common wire diameter specification.

AWM—Appliance Wiring Material. A UL 758 designation for a type of wire.

B

BACKBONE—The main portion of network cabling, connecting equipment rooms or communications closets. These cables often have the largest number of fibers and/or the longest continuous cable runs.

BACKFILL—The materials used to fill an excavation, such as sand in a trench.

BALANCED CIRCUIT—A circuit so arranged that the impressed voltages on each conductor of the pair are equal in magnitude but opposite in polarity with respect to ground.

BALANCED LINE—A cable having two identical conductors with the same electromagnetic characteristics in relation to other conductors and to ground.

BALLAST—A device designed to stabilize current flow.

BAND MARKING—A continuous circumferential band applied to a conductor at regular intervals for identification.

BANDWIDTH—The width of a communications channel, measured as frequency (in cycles per second, or hertz). A channel's bandwidth is a major factor in determining how much information it can carry.

BARE CONDUCTOR—A conductor having no insulation or jacket.

BARREL-PACKED—Method of coiling wire into a drum for shipment.

BASEBAND—A signaling technique in which the signal is transmitted in its original form and not changed by modulation.

BASEBAND LAN—A local area network employing baseband signaling.

BEDDING—A layer of material applied to a cable immediately below the armoring.

BELDFOIL—Belden trademark for a highly effective electrostatic shield using reinforced metallic foil.

Glossary

BELT—Layers of insulation on a conductor, or layers of jacket on a cable.

BELTED-TYPE CABLE—Multiple conductor cable having a layer of insulation over the assembled insulated conductors.

BEND LOSS—A form of increased attenuation caused by (a) having an optical fiber curved around a restrictive radius of curvature or (b) micro bends caused by minute distortions in the fiber imposed by externally induced perturbations.

BENDING RADIUS—The radius of a circle that can be tightly fitted into the inside curvature of a bent wire or cable. Also, half the diameter of a drum around which a wire is wound. The manufacturer or industry standards specify the minimum bending radius for a cable.

BER—Bit error rate. The ratio of received bits that are in error, relative to a specific number of bits received; usually expressed as a number referenced to a negative power of 10.

BIL—Basic impulse level. The crest value of a lightning impulse voltage of a specified wave shape that a high-voltage cable or termination is required to withstand under specified conditions.

BIMETALLIC WIRE—A wire formed of two different metals joined together (not alloyed). It can include wire with a steel core, plated or coated wire.

BINDER—A tape or thread used for holding assembled cable components in place.

BINDING POST—A device for clamping or holding electrical conductors in a rigid position.

BIRDCAGE—The undesirable unwinding of a stranded cable.

BIT—Abbreviation for binary digit. A unit of information equal to one binary decision or the designation of one of two possible and equally likely states (such as 1 and 0) of anything used to store or convey information.

BITS PER SECOND (bps)—The number of bits of data transmitted through a digital process control cable in one second.

BNC—Common connector for coax. BNC is said to be an abbreviation for Bayonet-Neill-Concelman.

BONDED CABLE—Cable consisting of preinsulated conductors or multiconductor components laid in parallel and bonded into a flat cable.

BONDED CONSTRUCTION—An insulation construction in which the glass braid and nylon jacket are bonded together.

BONDING—The method used to produce good electrical contact between metallic parts of any device. Used extensively in automobiles and aircraft to prevent static buildup. Also refers to the connectors and straps used to ground equipment.

BOOSTER—A device inserted into a line (or cable) to increase the voltage. Boosting generators are also used to raise the level of a DC line. Transformers are usually employed to boost AC voltages. The term booster is also applied to antenna preamplifiers.

BOOT—(1) Protective coating over a cable, wire or connector in addition to the normal jacketing or insulation. (2) A form placed around the wire termination of a multicontact connector to contain the liquid potting compound before it hardens.

BORDER LIGHT CABLE—Same as stage cable but more than two conductors. Type SO cable is often used.

BORE HOLE CABLE—Power and/or communications cable suspended down a vertically drilled hole to equipment underground.

BRAID—Textile or metallic filaments interwoven to form a tubular structure that may be applied over one or more wires or flattened to form a strap.

BRAID ANGLE—The smaller of the angles formed by the shielding strand and the axis of the cable being shielded.

BRAID CARRIER—A spool or bobbin on a braiding machine that holds one group of strands or filaments consisting of a specific number of ends. The carrier revolves during braiding operations.

BRAID ENDS—The number of strands used to make up one carrier. The strands are wound side by side on the carrier bobbin and lie parallel in the finished braid.

BRAIDING MACHINE—Machine used to apply braids to wire and cable and to produce braided sleeving and braids for tying or lacing purposes. Braiding machines are identified by the number of carriers.

BRANCH JOINT—A cable joint used for connecting one or more cables to a main cable.

BRAZING—The joining of ends of two wires, rods, or groups of wires with nonferrous filler metal at temperatures above 800°F (427°C).

BREAKDOWN (PUNCTURE)—A disruptive discharge through insulation.

BREAKDOWN VOLTAGE—The voltage at which the insulation between two conductors breaks down and becomes conductive.

BREAKING STRENGTH—The maximum force that a conductor can withstand when tested under tension to rupture.

BREAKOUT—The point at which a conductor or group of conductors breaks out from a multiconductor cable to complete circuits at various points along the main cable.

BRIDGE—A circuit that measures by balancing four impedances through which the same current flows:

- Wheatstone measures resistance
- Kelvin measures low resistance
- Schering measures capacitance, dissipation factor, dielectric constant
- Wien measures capacitance, dissipation factor

BRIDGED TAP—Multiple appearances of the same cable pair at several distribution points (e.g., a telephone party line).

BRITISH STANDARD WIRE GAUGE—A modification of the Birmingham Wire Gauge and the legal standard of Great Britain for all wires. Also known as Standard Wire Gauge (SWG), New British Standard (NBS), English Legal Standard and Imperial Wire Guide.

BROADBAND LAN—LAN that uses FDM (frequency division multiplexing) to divide a single physical channel into a number of smaller independent frequency channels. The different channels created by FDM can be used to transfer different forms of information: voice, data and video.

BROADCAST—The act of sending a signal to all possible receivers in a system.

B and S—Brown and Sharpe wire gauge—same as AWG.

BSL (BASIC SWITCHING IMPULSE INSULATION LEVEL)—The crest value of a switching impulse voltage of a specified wave shape in which a high-voltage cable termination is required to withstand under specified conditions.

Glossary

BUFFER—A protective coating in intimate contact with an optical fiber.

BUFFER TUBE—A loose, crush-resistant polymer tube applied over optical fibers to provide mechanical protection.

BUILDING WIRE—Commercial wires used in the building trades because they are independently tested and listed in the National Electric Code, such as types RHH, RHW, THW and THHN wire.

BUNA—A synthetic rubber insulation of styrene butadiene; was known as GR-S, now known as SBR (Styrene Butadiene Rubber).

BUNCH STRAND—A conductor arrangement in which all individual wires are twisted in the same direction without regard for geometrical arrangement.

BUNCHER—A machine that twists wires together in a random arrangement.

BUOYANT CABLE—Originally military type MIL-C-2401 with built-in floatation ability. Many power and communications applications using numerous types and sizes have been developed using buoyancy.

BURIED CABLE—A cable installed directly in the earth without use of underground conduit. Also called "direct burial cable."

BUS—A network topology in which a signal line is shared by a number of nodes using rules to control traffic on the bus.

BUS-BAR WIRE—Uninsulated tinned copper wire used as a common lead.

BUSHING—A mechanical device used as a lining for an opening to prevent abrasion to wire and cable.

BUTT SPLICE—A splice wherein two wire ends butt against each other, or against a stop, in the center of a splice.

BUTT WRAP—Tape wrapped around an object or conductor in an edge-to-edge condition.

BUTYL RUBBER—Synthetic rubber formerly used for electrical insulating purposes.

BX—A common type of armored building wire rated 600 volts.

BYTE—Generally, an 8-bit quantity of information, used mainly in referring to parallel data transfer, semiconductor capacity and data storage; also generally referred to in data communications as an octet or character.

C

C—Symbol for capacitance and Celsius.

CABLE—A cable may be a small number of large conductors or a large number of small conductors cabled together, usually color coded and with a protective overall jacket.

CABLE ASSEMBLY—A cable assembly is a cable with plugs or connectors on each end for a specific purpose. It may be formed in various configurations.

CABLE, BELTED—A multiconductor cable having a layer of insulation over the assembled insulated conductors.

CABLE CLAMP—A device used to give mechanical support to the wire bundle or cable at the rear of a plug or receptacle.

CABLE CLAMP ADAPTER—A mechanical adapter that attaches to the rear of a plug or receptacle to allow the attachment of a cable clamp.

CABLE CORE—The portion of an insulated cable lying under a protective covering.

CABLE CORE BINDER—A wrapping of tapes or cords around the conductors of a multiple-conductor cable used to hold them together.

CABLE FILLER—The material used in multiple-conductor cables to occupy the interstices formed by the assembly of the insulated conductors, thus forming a cable core.

CABLE JOINT—A completely insulated splice, or group of insulated splices, contained within a single protective covering or housing. In some designs, the insulating material may also serve as the protective covering.

CABLE LOSS—The amount of RF (radio frequency) signal attenuated by coaxial cable transmission. The cable attenuation is a function of frequency, media type and cable length. For coaxial cable, higher frequencies have greater loss than lower frequencies and follow a logarithmic function. Cable losses are usually calculated for the highest frequency carried on the cable.

CABLE, PRESSURIZED—A cable having a pressurized fluid (gas or oil) as part of the insulation; nitrogen and oil are the most common fluids.

CABLE SHEATH—The protective covering applied to cables.

CABLE SUPPORT—A device to mount a cable on a supporting member.

CABLING—The method by which a group of insulated conductors is mechanically assembled (or twisted together).

CAD—Computer-aided design.

CAM—Computer-aided manufacture.

CAPACITANCE—Capacitance is that property of a system of conductors and dielectrics that permits the storage of electricity when potential differences exist between the conductors.

CAPACITANCE, DIRECT—The capacitance measured from one conductor to another conductor through a single insulating layer.

CAPACITANCE, MUTUAL—The capacitance between two conductors (typically of a pair) with all other conductors, including shield, short circuited to ground.

CAPACITANCE, UNBALANCED—An inequality of capacitance between the wires of two or more pairs that result in a transfer of unwanted signal from one pair to others.

CAPACITANCE, UNBALANCED-TO-GROUND—An inequality of capacitance between the ground capacitance of the conductors of a pair, which results in a pickup of external noise energy, usually from power transmission lines.

CAPACITIVE COUPLING—Electrical interaction between two conductors caused by the potential difference between them.

CAPACITIVE REACTANCE—The opposition to alternating current due to the capacitance of a capacitor, cable or circuit. It is measured in ohms and is equal to $1/(2 \pi f C)$ where f is the frequency in Hz and C is the capacitance in farads.

CAPACITOR—Two conducting surfaces separated by a dielectric material. The capacitance is determined by the area of the surface, type of dielectric and spacing between the conducting surfaces.

CAPILLARY ACTION—Movement of a liquid along a small interstice due to surface tension.

Glossary

CARRIER—(1) An AC electrical signal that is used to carry information. (2) The woven element of a braid consisting of one or more ends (strands) which creates the interlaced effect. (3) A spindle, spool, tube, or bobbin (on a braiding machine) containing yarn or wire, employed as a braid.

CATHODE—(1) The negative electrode through which current leaves a nonmetallic conductor, such as an electrolytic cell. (2) The positive pole of a storage battery.

CATHODIC PROTECTION—Reduction or prevention of corrosion by making the metal to be protected the cathode in a direct current circuit.

CATV—Community Antenna Television. Refers to the use of a coaxial or fiber cable to transmit television or other signals to subscribers from a single head-end location.

CATV CABLE—General term for all cables used for community antenna TV service and feeders, distribution and house drops.

CB—Citizens band. A type of two-way radio communication.

C CONDITIONING—A type of line conditioning that controls attenuation, distortion and delay distortion to within specific limits.

C CONNECTOR—A bayonet-locking connector for coax; C is named after Carl Concelman.

CCTV—Closed-circuit television. One of the services often found on broadband networks.

CCW—Continuously corrugated and welded. A type of cable armor.

CD—Carrier detect. An RS-232 control signal (on Pin 8) that indicates that the local modem is receiving a signal from the remote modem. Also called received line signal detector (RLSD) and data carrier detect (DCD).

CENELEC—Comité Européen de Normalisation Electrotechnique. One of the European Union's key electrical standards bodies.

CELLULAR POLYETHYLENE—Expanded or "foam" polyethylene, consisting of individual closed cells of inert gas suspended in a polyethylene medium, resulting in a desirable reduction of dielectric constant.

CERTIFICATE OF COMPLIANCE—A written statement normally generated by a quality control department that states that the product being shipped meets a particular specification.

CERTIFIED TEST REPORT (CTR)—A report reflecting actual test data on the cable shipped. Tests are normally conducted by the quality control department and show that the product being shipped meets the required test specifications.

CFR—Code of Federal Regulations.

CHANNEL—(1) A path for electrical transmission. Also called a circuit facility, line, link or path. (2) A specific and discrete bandwidth allocation in the radio frequency spectrum (for example, in a broadband LAN) used to transmit one information signal at a time.

CHANNEL TRANSLATOR—Device used in broadband LANs to increase carrier frequency, converting upstream (toward the head-end) signals into downstream signals (away from the head-end).

CHARACTERISTIC IMPEDANCE—An electrical characteristic of transmission lines. When terminated in its characteristic impedance, reflections from the end of a line are minimized.

CHEMICAL STRIPPING—Removal of insulation by chemical means.

CHLOROSULFONATED POLYETHYLENE (CSP)—A rubbery polymer used for insulations and jackets. Previously manufactured by E.I. DuPont under the trade name of Hypalon.

CI CABLE—Circuit Integrity cable. An optional rating for UL Listed cable types that meet the two-hour fire survival requirements of UL Standard 2196, e.g., FPLP-CI.

CIC CABLE—Circuit Integrity in Conduit cable. A generic term for cables that meet the two-hour fire survival requirements of UL Standard 2196 when installed in metallic conduit per UL category FHIT.

CIGARETTE WRAP—Tape insulation wrapped longitudinally instead of spirally over a conductor.

CIRCUIT SWITCHING—A switching technique in which an information path (i.e., circuit) between calling and receiving stations is established on demand for exclusive use by the connected parties until the connection is released.

CIRCUIT TRACING—Locating or identifying a specific conductive path.

CIRCULAR MIL (CM)—A term universally used to define cross-sectional areas of conductors. It is an area equal to the area of a circle 1/1000 of an inch in diameter. As the number of circular mils increase, the size of a wire increases.

CLAD WIRE—Different from coated wire, clad wire is any metal covered with a relatively heavy coating of different metal, such as copperweld (copper over steel) or alum-o-weld (aluminum over steel). See COATED WIRE.

CLOSED CELL—Foamed or cellular material with intact cell walls, usually filled with air. Generally harder, better insulating, but more expensive than open cell material.

COATED WIRE—Any metal covered by a relatively thin coating of a different metal such as tin, zinc or other alloy by a dip bath and wipe process, often at high speeds in line with insulating equipment. See TINNED WIRE.

COAXIAL CABLE—A cylindrical transmission line comprised of a conductor centered inside a metallic tube or shield, separated by a dielectric material and usually covered by an insulating jacket.

COHERENT SOURCE—A fiber optic light source that emits a very narrow, unidirectional beam of light of one wavelength (monochromatic).

COIL EFFECT—The inductive effect exhibited by a spiral wrapped shield, especially above audio frequencies.

COLD BEND—Generally refers to a test to determine cable or wire characteristics at low temperatures. The test specimen is cooled in a low-temperature box to a specified temperature. The wire specimen is then wound around a mandrel after which it is examined for cracks or other defects caused by bending at low temperatures.

COLD-DRAWING—Reducing the cross section by pulling through a die or dies, at a temperature lower than the recrystallization temperature.

COLD FLOW—Permanent deformation of the insulation due to mechanical pressure (not due to heat softening).

COLOR CODE—A color system for wire or circuit identification by use of solid colors, tracers, braids, surface printing, etc.

Glossary

COMBINATION STRANDED CONDUCTOR—A conventional concentric conductor in which the wires in the outer layer are larger in diameter than the wires in the inner layer or layers and the diameters of all wires are within plus and minus 5 percent of the nominal wire diameter for the same size noncombination stranded conductor.

COMMON AXIS CABLING—In multiconductor constructions, a twisting of all conductors about a "common axis" to result in smaller diameter constructions. Tends to result in greater susceptibility to electromagnetic and electrostatic interference.

COMMON MODE NOISE—Noise caused by a difference in ground potential. By grounding at either end rather than both ends (usually grounded at source) one can reduce this interference.

COMPACT STRANDED CONDUCTOR—A unidirectional or conventional concentric conductor manufactured to a specified diameter, approximately 8 to 10 percent below the nominal diameter of a noncompact conductor of the same cross-sectional area.

COMPOSITE CABLE—A cable containing more than one gauge size or a variety of circuit types, e.g., pairs, triples, quads, coaxials, etc.

COMPOSITE (CLAD) WIRE—A wire having a core of one metal with a fused outer shell of a different metal.

COMPOSITE CONDUCTOR—A conductor consisting of two or more types of wire, each type of wire being plain, clad, or coated-stranded together to operate mechanically and electrically as a single conductor.

COMPRESSED STRANDED CONDUCTOR—A conventional concentric conductor manufactured to a diameter not more than 3 percent below the nominal diameter of a noncompressed conductor of the same cross-sectional area.

COMPRESSION LUG OR SPLICE—A connection installed by compressing the connector onto the strand, ideally creating a cold weld.

CONCENTRICITY—The measurement of the location of the center of the conductor with respect to the geometric center of the circular insulation.

CONCENTRIC-LAY CONDUCTOR—A layer of uninsulated wires twisted around a central wire with subsequent layers spirally wrapped around the inner layers to form a single conductor.

CONDUCTANCE—The ability of a conductor to carry an electric charge. The ratio of the current flow to the potential difference causing the flow. The reciprocal of resistance.

CONDUCTIVITY—Capacity of a material to carry electrical current–usually expressed as a percentage of copper conductivity (copper being 100 percent).

CONDUCTOR—A material suitable for carrying an electric current. Several types are as follows:

COMPACT ROUND CONDUCTOR—A conductor constructed with a central wire surrounded by one or more preshaped (nonround) helically-laid wires and formed into final shape by rolling, drawing or other means.

CONCENTRIC-LAY CONDUCTOR—A conductor constructed with a central wire surrounded by one or more layers of helically-laid wires.

CONVENTIONAL CONCENTRIC CONDUCTOR—A conductor constructed with a central wire surrounded by one or more layers of helically-laid wires. The direction of lay is reversed in successive layers and generally with an increase in length of lay for successive layers.

EQUILAY CONDUCTOR—A conductor constructed with a central wire surrounded by more than one layer of helically-laid wires, all layers having a common length of lay, direction of lay being reversed in successive layers.

PARALLEL CORE CONDUCTOR—A conductor constructed with a central core of parallel-laid wires surrounded by one layer of helically-laid wires.

ROPE-LAY CONDUCTOR—A conductor constructed of a bunch-stranded or a concentric-stranded member or members, as a central wire, around which are laid one or more helical layers of such members.

UNIDIRECTIONAL CONDUCTOR—A conductor constructed with a central wire surrounded by more than one layer of helically-laid wires, all layers having a common direction of lay, with increase in length of lay for each successive layer.

UNILAY CONDUCTOR—A conductor constructed with a central wire surrounded by more than one layer of helically-laid wires, all layers having a common length and direction of lay.

CONDUCTOR CORE—The center strand or member about which one or more layers of wires or members are laid helically to form a concentric-lay or rope-lay conductor.

CONDUCTOR SHIELD—A conducting layer applied to make the conductor a smooth surface in intimate contact with the insulation; sometimes called Extruded Strand Shield (ESS).

CONDUIT—A tube or trough for protecting electrical wires or cables. Also referred to as raceway.

CONNECTION, DELTA—Interconnection of three electrical equipment windings in a DELTA (triangular) configuration.

CONNECTION, WYE—Interconnection of three electrical equipment windings in WYE (star) configuration.

CONNECTOR—A metallic device of suitable electric conductance and mechanical strength, used to splice the ends of two or more cable conductors, or as a terminal connector on a single conductor. Conductors are sometimes spliced without connectors, by soldering, brazing, or welding. Connectors usually fall into one of the following types:

- Solder
- Welded
- Mechanical
- Compression or indent

CONTACT—The part of a connector that carries the electrical current.

CONTACT SIZE—The largest size wire that can be used with the specific contact. Also, the diameter of the engagement end of the pin.

CONTINUITY CHECK—A test performed on a length of finished wire or cable to determine if an electrical current flows.

CONTINUOUS VULCANIZATION—Simultaneous extrusion and vulcanization (cross-linking) of wire insulating and jacketing materials. Also referred to as CV cured.

CONTRAHELICAL—Wire strands spiraling in an opposite direction than the preceding layer within a wire or cable.

CONTROL CABLE—A cable used for remote control operation of any type of electrical power equipment.

CONTROLLED IMPEDANCE CABLE—A package of two or more insulated conductors where impedance measurements between respective conductors are kept essentially constant throughout the entire length.

Glossary

COPOLYMER—A compound resulting from the polymerization of two different monomers.

COPPER-CLAD STEEL—Steel with a coating of copper welded to it before drawing as opposed to copper-plated. Synonymous with Copperweld.

COPPERWELD—Trademark of Copperweld Steel Co. for copper-clad steel conductor.

CORD—A flexible insulated cable.

CORD SET—Portable cords fitted with a connector at one or both ends.

CORE—(1) In cables, a component or assembly of components over which other materials are applied, such as additional components, shield, sheath or armor. (2) In fiber optics, the transparent glass or plastic section with a high refractive index through which the light travels by internal reflections.

CORONA—A discharge due to ionization of the air around a conductor due to a potential gradient exceeding a certain critical value. See PARTIAL DISCHARGE.

CORONA RESISTANCE—The time that the insulation will withstand a specified level of ionization that does not result in the complete breakdown of the insulation.

CORROSION—The destruction of the surface of a metal by chemical reaction.

COULOMB—The derived SI unit for quantity of electricity or electrical charge: one coulomb equals one ampere-second.

COUNTER EMF—The voltage opposing the applied voltage and the current in a coil; caused by a flow of current in the coil; also known as back EMF.

COUNTERPOISE WIRE—Bare copper wire used to offset the impact of lightning surges along high-voltage overhead lines and around the base of towers. Buried counterpoise wire is connected to overhead ground wires and towers. Numerous methods of application are used, dependent upon resistance of the soil at the tower base.

COUPLING—The transfer of energy between two or more cables or components of a circuit.

COUPLING LOSS—Signal losses in an optical fiber due to small differences in numerical aperture, core diameter, core concentricity and tolerances in connectors when two fibers are spliced together. Also known as splicing loss and transfer loss.

COVERAGE—The calculated percentage that defines the completeness with which a metal braid covers the underlying surface. The higher percentage of coverage, the greater the protection against external interference.

CPE—Chlorinated polyethylene. A jacketing compound sold by Dow Chemical under the trademark Tyrin.

CROSS-LINKED—Intermolecular bonds created between long-chain thermoplastic polymers by chemical or electron bombardment means. The properties of the resulting thermosetting material are usually improved.

CROSS-LINKED POLYETHYLENE—A dielectric material used for insulating and jacketing. Also referred to as "XLP" or "XLPE."

CROSSTALK—A type of interference caused by audio frequencies from one circuit being coupled into an adjacent circuit. The term is loosely used to also include coupling at higher frequencies.

CRT—Cathode-ray tube. A television-like picture tube used in terminals; CRT is commonly used as a synonym for the CRT terminal.

CRT WIRE—High-voltage lead wire for energizing cathode-ray tubes.

CSA (CANADIAN STANDARDS ASSOCIATION)—Standards body for Canada, similar to UL in the United States.

CSA Certified—A product that has been tested and found to comply with applicable Canadian standards.

CSPE—A jacketing compound based on DuPont's chlorosulfonated polyethylene (Hypalon). Sometimes abbreviated CSP.

CT—Cable Tray, from NEC Article 392. A cable marking that indicates a cable is suitable for use in a cable tray.

CURE—To change the properties of a polymeric material into a more stable, usable condition by the use of heat, radiation or reaction with chemical additives.

CURING CYCLE—The time, temperature and pressure required for curing.

CURL—The degree to which a wire tends to form a circle after removal from a spool.

CURRENT—The rate of transfer of electricity. The unit of current is the ampere, a rate of one coulomb/second.

CURRENT, ALTERNATING (AC)—An electric current that periodically reverses direction of electron flow. The number of cycles in a given unit of time (generally a second) is called the frequency of the current.

CURRENT CARRYING CAPACITY—The maximum current an insulated conductor can safely carry without exceeding its insulation and jacket temperature limitations. Same as ampacity.

CURRENT, CHARGING—The current needed to bring the cable up to voltage; determined by the capacitance of the cable. The charging current will be 90° out of phase with the voltage.

CURRENT DENSITY—The current per cross sectional area. Usually in units of amperes/square meter.

CURRENT, DIRECT (DC)—Electrical current whose electrons flow in one direction only. It may be constant or pulsating as long as their movement is in the same direction.

CUT-THROUGH RESISTANCE—The ability of a material to withstand mechanical pressure without damage.

CV—Continuous vulcanization. An insulation and jacketing curing process.

CYCLE—The complete sequence, including reversal of the flow, of an alternating electric current.

D

D/A—Digital to analog.

DAC—Digital to analog converter. A device that converts a digital input signal to an analog output signal carrying equivalent information.

DATA—Digitally represented information including voice, text, images and video.

dB—Decibel. The standard unit used to express the relative strength of two signals. When referring to a single signal measured at two places in a transmission system, it expresses either a gain or loss in power between the input and output devices.

Glossary

dBmV—Decibel millivolt. The level at any point in a system expressed in dBs above or below a 1 millivolt/75 ohm standard is said to be the level in decibel-millivolts or dBmV. Zero dBmV is equal to 1 millivolt across an impedance of 75 ohms.

DC—Direct current. (see CURRENT, DIRECT.)

DCE—Data communications equipment. In common usage, synonymous with modem; the equipment that provides the functions required to establish, maintain and terminate a connection as well as the signal conversion required for communications between the DTE and the telephone line or data circuit.

DCL—Data carrier level.

DC RESISTANCE—See RESISTANCE.

DCS—Distributed control system. A type of industrial automation system in which the processors are distributed in various locations though out the facility.

DecaBDE—Decabromodiphenyl ether. A type of brominated flame retardant sometimes used in wire and cable and other products. A type of polybrominated diphenyl ether (PBDE).

DELAY SKEW—The difference between the propagation delay of any two pairs within the same cable sheath. Delay skew is caused primarily because twisted pairs are designed to have different twists per foot (lay lengths). Delay skew could cause data transmitted over one channel to arrive out of sync with data over another channel.

DEMAND—(1) The measure of the maximum load of a utility's customer over a short period of time. (2) The load integrated over a specified time interval.

DERATING FACTOR—A factor used to reduce the current carrying capacity of a wire when used in environments other than that for which the value was established.

DETECTOR—A fiber optic device that picks up light from the fiber and converts the information into an electrical signal.

DIELECTRIC—An insulating (nonconducting) medium.

DIELECTRIC BREAKDOWN—Any change in the properties of a dielectric that causes it to become conductive. Normally the failure of an insulation because of excessive voltage.

DIELECTRIC CONSTANT—The property of an insulation which determines the electrostatic energy stored per unit volume for unit potential gradient. It is expressed as a ratio. "K" for air is 1.0, while that for polyethylene is 2.3. Therefore, the capacitance of polyethylene is 2.3 times that of air. It is also referred to as specific inductive capacity or permittivity.

DIELECTRIC DISPERSION—The change in relative capacitance due to a change in frequency.

DIELECTRIC HEATING—The heating of an insulating material when placed in a radio-frequency field, caused by internal losses during the rapid polarization reversal of molecules in the material.

DIELECTRIC LOSS—The power dissipated in a dielectric as the result of the friction produced by molecular motion when an alternating electric field is applied.

DIELECTRIC STRENGTH—The maximum voltage that an insulation can withstand without breaking down; usually expressed as a gradient in V/mil (volts per mil). Polyethylene for example has a dielectric strength of about 800 V/mil.

DIELECTRIC STRENGTH TESTING—A common test performed on electrical products that is often called hi-pot testing. A voltage higher than normal operating voltage is applied across the insulation. This test can increase product reliability by detecting faulty workmanship.

DIGITAL—Refers to communications procedures, techniques and equipment by which information is encoded as either a binary "1" or "0"; the representation of information in discrete binary form, discontinuous in time, as opposed to the analog representation of information in variable, but continuous, waveforms.

DIN—Deutsches Institut für Normung (DIN), German standards body.

DIP COATING—An insulating coating applied to the conductor by passing the conductor through an applicator containing liquid insulating medium.

DIRECT BURIAL CABLE—A cable installed directly in the earth.

DIRECT CAPACITANCE—The capacitance measured directly from conductor to conductor through a single insulating layer.

DIRECTIONAL COUPLER—A passive device used in a cable system to divide or combine unidirectional RF power sources.

DIRECTION OF LAY—The lateral direction, designated as left-hand or right-hand, in which the wires of a conductor run over the top of the conductor as they recede from an observer looking along the axis of the conductor.

DISPERSION—The variation of the refractive index of an optical fiber with wavelength, causing light of different wavelengths to travel at different velocities in the fiber.

DISSIPATION FACTOR—Energy lost when voltage is applied across an insulation. The cotangent of the phase angle between voltage and current in a reactive component. Dissipation factor is quite sensitive to contamination and deterioration of insulation. Also known as power factor.

DISTORTION FACTOR—An undesirable change in waveform as a signal passes through a device.

DISTRIBUTION CABLE—(1) In a CATV system, the transmission cable from the distribution amplifier to the drop cable. (2) In an electric power system, provides low-voltage service to the customer.

DISTURBED CONDUCTOR—A conductor that receives energy generated by the field of another conductor or an external source such as a transformer.

DISTURBING CONDUCTOR—A conductor carrying energy whose field(s) create spurious energy in another conductor.

DOWNLOAD—The process of loading software into the nodes of a network from one node or device over the network media.

DRAIN WIRE—An uninsulated wire in contact with a shield throughout its length, used for terminating the shield.

DRAWING—In wire manufacturing, pulling the metal through a die or series of dies to reduce diameter to a specified size.

DROP CABLE—In a CATV system, the transmission cable from the distribution cable to a dwelling.

DSR—Data Set Ready. One of the control signals on a standard RS-232-C connector. It indicates whether the data communications equipment is connected and ready to start handshaking control signals so that transmission can start.

Glossary

DTE—Data terminal equipment.

DTR—Data terminal ready. An RS-232 modem interface control signal (sent from the DTE to the modem on pin 20) that indicates that the DTE is ready for data transmission and which requests that the modem be connected to the telephone circuit.

DUAL CABLE—A two-cable system in broadband LANs in which coaxial cables provides two physical paths for transmission, one for transmit and one for receive, instead of dividing the capacity of a single cable.

DUCT—An underground or overhead tube for carrying electrical conductors.

DUOFOIL—Belden trademark for a shield in which metallic foil is applied to both sides of a supporting plastic film.

DUPLEX—Two-way data transmission on a four-wire transmission cable.

DUPLEX CABLE—A cable composed of two insulated single conductor cables twisted together.

E

E—(1) Symbol for voltage. Usually used to represent direct voltage or the effective (root-mean-square) value of an alternating voltage. (2) A UL cable type. Elevator lighting and control cable.

EARTH—British terminology for zero-reference ground.

ECCENTRICITY—Like concentricity, a measure of the center of a conductor's location with respect to the circular cross section of the insulation. Expressed as a percentage of displacement of one circle within the other.

ECTFE—Ethylene chlorotrifluoroethylene. Halar is a Solvay Solexis trademark for this material. Used as an insulation or jacketing material.

EDDY CURRENT—Circulating currents induced in conducting materials by varying magnetic fields.

ELASTOMER—Any material that will return to its original dimensions after being stretched or distorted.

ELECTROMAGNET—A device consisting of a ferromagnetic core and a coil that produces appreciable magnetic effects only when an electric current exists in the coil.

ELECTROMAGNETIC—Referring to the combined electric and magnetic fields caused by electron motion through conductors.

ELECTROMAGNETIC COUPLING—The transfer of energy by means of a varying magnetic field. Inductive coupling.

ELECTRO-MECHANICAL CABLES—Dual purpose composite cables made up of support strands capable of supporting predetermined loads together with communication, coaxial, or power as integral members of a finished cable.

ELECTROMOTIVE FORCE (EMF)—Pressure or voltage. The force that causes current to flow in a circuit.

ELECTRON—An elementary particle containing the smallest negative electric charge; charge = 0.16 attocoulomb. Diameter = 1 femtometer.

ELECTRON VOLT—A measure of the energy gained by an electron passing through an electric field produced by one volt.

ELECTRONIC WIRE AND CABLE—Wire or cable used in electronic applications.

ELECTRO-OSMOSIS—The movement of fluids through dielectrics because of electric current.

ELECTROSTATIC—Pertaining to static electricity, or electricity at rest. A static electric charge, for example.

ELECTROSTATIC COUPLING—The transfer of energy by means of a varying electrostatic field. Capacitive coupling.

ELECTROSTATIC DISCHARGE (ESD)—An instantaneous flow of an electrical charge on a nonconductor through a conductor to ground.

ELECTRO-TINNED—Electrolytic process of tinning wire using pure tin.

ELEXAR—Shell trademark for a thermoplastic elastomer (TPE).

ELFEXT—Equal-level far-end crosstalk. A measure of the unwanted signal coupling from a transmitter at the near-end into a neighboring pair measured at the far-end, relative to the received signal level measured on that same pair. Referred to as ACR-F (insertion loss to crosstalk ratio far-end) in the ANSI/TIA-568-B.2-Addendum 10 draft. (ELFEXT is FEXT adjusted to discount insertion loss.)

ELONGATION—The fractional increase in the length of a material stressed in tension.

EMA—Electrical moisture absorption. A water tank test during which sample cables are subjected to voltage and water maintained at rated temperature; the immersion time is long, with the object being to accelerate failure due to moisture in the insulation; simulates buried cable.

EMBOSSING—Identification by means of thermal indentation that leaves raised lettering on the sheath material of cable.

EMERGENCY OVERLOAD—A situation in which larger than normal currents are carried through a cable or wire for a limited period of time.

EMF—Electromotive force. A force that tends to cause electrons to flow. SI unit is the volt.

EMI—Electromagnetic interference. External signals that disrupt the data being transmitted on the local area network or electronic device being operated. Typically, these external signals emanate from universal motors with brushes, fluorescent lights, personal computers, printers or other devices using nonlinear, switch-mode power supplies, etc. The Federal Communications Commission (FCC) regulates these emissions in the U.S.

ENDOSMOSIS—The penetration of water into a cable by osmosis; aggravated and accelerated by DC voltage on the cable.

ENDS—In braiding, the number of essentially parallel wires or threads on a carrier.

ENERGIZE—To apply voltage to a circuit or device in order to activate it.

EO—A UL cable type. Elevator lighting and control cable with thermoset insulation.

EOT—End of transmission character. A transmission control character used to indicate the end of transmission, which may include one or more texts and any associated message headings.

Glossary

EP, EPR, EPM, EPDM—E-ethylene, P-propylene, M-monomer, D-diene. Designations for a synthetic rubber based upon the hydrocarbon ethylene propylene.

EPA—Environmental Protection Agency. The federal regulatory agency responsible for keeping and improving the quality of our living environment–mainly air and water.

EPDM—Ethylene propylene diene monomer.

EPROM—Erasable programmable read only memory.

EPR—Ethylene propylene rubber.

EQUILAY CONDUCTOR—See CONCENTRIC-LAY CONDUCTOR.

ER RATED—Exposed Run. An optional UL rating on UL Listed cable Types TC, ITC and PLTC that meet the same crush and impact requirements as metal clad (Type MC) cables. Formerly called Open Wiring rated. Permits exposed runs between cable tray and utilization equipment.

ET—A UL cable type. Elevator lighting and control cable with thermoplastic insulation, three braids, flame-retardant and moisture-retardant finish. May have steel supporting strand in the center, 300 V.

ETCHED WIRE—A process applied to Teflon wire in which the wire is passed through a sodium bath to create a rough surface to allow epoxy resin to bond to the Teflon.

ETFE—Ethylene tetrafluoroethylene. Tefzel is DuPont's trademark for this material.

ETHERNET—A baseband frame-based networking local area network (LAN) communication standard. Standardized as IEEE 802.3. One of the dominant LAN technologies.

ETL—Electrical Testing Laboratories, Inc. An independent testing laboratory that performs testing, similar to UL.

ETPC—Abbreviation for electrolytic tough pitch copper. It has a minimum conductivity of 99.9 percent.

EVA—Ethylene vinyl acetate. A polymer often used for the jacket in low smoke, zero halogen, flame retardant cables. Often referred to as a polyolefin.

EXIT ANGLE—The angle between the output radiation vectors and the axis of the fiber or fiber bundle.

EXPANDED DIAMETER—Diameter of shrink tubing as supplied. When heated the tubing will shrink to its extruded diameter.

EXTERNAL WIRING—Electronic wiring that interconnects subsystems within the system.

EXTRUDED CABLE—Cable that is insulated by applying insulation material in a continuous extrusion process.

EXTRUSION—A method of applying insulation to a conductor or jacketing to a cable. The process is continuous and uses rubber, neoprene or a variety of plastic compounds.

F

FACSIMILE—The remote reproduction of graphic material; an exact copy.

FARAD—A unit of capacitance when a difference of potential of 1 volt produces a displacement of one coulomb in a capacitor. The farad is a very large unit and much smaller units, like the microfarad (μF) or picofarad (pF) are more commonly used.

FATIGUE RESISTANCE—Resistance to metal crystallization, which leads to conductors or wires breaking during flexing.

FAULT, GROUND—A fault to ground.

FCC—Federal Communications Commission.

FDDI (Fiber Distributed Data Interface)—An ANSI-defined token-passing ring using fiber optic media to attain a 100 Mbps transmission rate.

FDX—Full duplex. Transmission in two directions simultaneously, or, more technically, bidirectional simultaneous two-way communications.

FEP—Fluorinated ethylene propylene. Teflon is DuPont's trademark for this material.

FEPB—A UL cable type. Fluorinated ethylene propylene insulated wire with glass braid. 14 AWG to 2 AWG, 90°C dry/damp or 200°C dry maximum operating temperature.

FEXT—Far-end crosstalk. A measure of the unwanted signal coupling from a transmitter at the near-end into a neighboring pair measured at the far-end.

FFH-2—A UL type of heat-resistant rubber-covered fixture wire with flexible stranding. 600 V rating, 18 AWG–16 AWG, 75°C maximum operating temperature.

FIBER DISPERSION—Pulse spreading in an optical fiber caused by differing transit times of various modes (a mode is one ray of light).

FIBER OPTICS—Transmission of energy by light through glass fibers. A technology that uses light as an information carrier. Fiber optic cables (light guides) are a direct replacement for conventional cable and wire pairs. The glass-based transmission cable occupies far less physical volume for an equivalent transmission capacity; the fibers are immune to electrical interference.

FIBER TUBING—A loose, crush-resistant cylinder applied over individual fibers to provide mechanical protection. Also called a buffer tube.

FIELD COIL—A suitable insulated winding mounted on a field pole to magnetize it.

FIELD MOLDED SPLICE—A joint in which the solid dielectric joint insulation is fused and cured thermally at the job site.

FIELD TESTS—Tests that may be made on a cable system after installation as an acceptance or proof test. Various standards with test recommendations exist, like IEEE 400.

FIGURE 8 CABLE—An aerial cable configuration in which the conductors and the steel strands that supports the cable are integrally jacketed. A cross section of the finished cable approximates the figure "eight."

FILLED CABLE—A cable construction in which the cable core is filled with a material that will prevent moisture from entering or passing through the cable.

FILLER—Fillers are used in multiconductor cables that occupy the interstices formed by the assembled conductors. This is done so that the finished cable will be round.

Glossary

FILLING COMPOUND—A dielectric material poured or injected into a splice housing or cable to prevent the entry of water. Filling compounds may require heating or mixing prior to filling. Some filling compounds may also serve as the insulation.

FINE STRANDED WIRE—Stranded wire with component strands of 36 AWG or smaller.

FLAME RESISTANCE—The ability of a material to not propagate flame once the heat source is removed.

FLAMMABILITY—The measure of a material's ability to support combustion.

FLASHOVER—A disruptive discharge around or over the surface of a solid or liquid insulator.

FLAT BRAID—A woven braid of tinned copper strands rolled flat at the time of manufacture to a specified width.

FLAT CABLE—A cable with two essentially flat surfaces.

FLAT CONDUCTOR—A wire having a rectangular cross section as opposed to a round or square conductor.

FLEX-LIFE—The measurement of the ability of a conductor or cable to withstand repeated bending, usually specified as expected total number of cycles before failure.

FLEXIBILITY—The ease with which a cable may be bent. In general, finer stranding gives greater flexibility. Various types of cables are available depending on the type of flexing required.

FLEXIBLE—That quality of a cable or cable component that allows for bending under the influence of an outside force, as opposed to limpness that is bending due to the cable's own weight.

FLOATING—Refers to a circuit that has no electrical connection to ground.

FLUOROPOLYMER—A class of polymers used as insulating and jacketing materials. Common ones include Teflon, Tefzel, Kynar and Halar.

FLUX—(1) The lines of force which make up an electrostatic field. (2) The rate of flow of energy across or through a surface. (3) A substance used to promote or facilitate fusion, commonly used in soldering.

FM—Frequency modulation. A modulation technique in which the carrier frequency is shifted by an amount proportional to the value of the modulating signal. The deviation of the carrier frequency determines the signal content of the message.

FOAMED INSULATION—Insulations having a cellular structure.

FOIL—A thin, continuous sheet of metal. Often used as a shield material in cables.

FREQUENCY—The number of cycles per second at which an (electrical) event occurs, expressed in hertz (Hz). One hertz is one cycle per second.

FREQUENCY ANALYZER—An instrument to measure the intensity of various component frequencies from a transmitting source. Also referred to as a spectrum analyzer.

FREQUENCY COUNTER—An electronic measuring instrument that precisely counts the number of cycles of a periodic electrical signal during a given time interval.

FREQUENCY MODULATION (FM)—Method of encoding a carrier wave by varying the frequency of the transmitted signal.

FREQUENCY PLAN—Specification of how the various frequencies available in a communications system are allocated for use. In the U.S. the FCC defines uses for various frequency bands.

"F" TYPE CONNECTOR—A low-cost connector used by the TV industry to connect coaxial cable to equipment. Used up to 1 GHz.

FULL DUPLEX—Two-way communications in which each modem simultaneously sends and receives data at the same rate.

FUSE WIRE—Wire made from an alloy that melts at a relatively low temperature to open a circuit when over-current conditions occur.

FUSED COATING—A metallic coating that has been melted and solidified, forming a metallurgical bond to the base material.

FUSED CONDUCTORS—Individual strands of heavily tinned copper wire stranded together and then bonded together by induction heating.

FUSED SPIRAL TAPE—A PTFE insulation often used on hook-up wire. The spiral wrapped tape is passed through a sintering oven where the overlaps are fused together.

G

G—A UL portable power cable type with thermoset insulation and thermoset fiber reinforced oil-resistant jacket. Two to five #8 AWG or larger conductors with ground wires. Rated 2,000 V, 60°C maximum operating temperature when exposed to oil, 90°C maximum dry.

GALVANIZED STEEL WIRE—Steel wire coated with zinc.

GANG STRIP—Stripping all or several conductors simultaneously.

GAS FILLED CABLE—A self-contained pressurized cable in which the pressure medium is an inert gas having access to the insulation.

GAUGE—A term used to denote the physical size of a wire. See AWG.

GAUSS—A unit of magnetic induction (flux density) equal to 1 Maxwell per square centimeter.

GENERAL PURPOSE INSTRUMENTATION BUS (GPIB)—A protocol standard defined by the IEEE. Often used on automated test and measurement equipment in manufacturing environments.

GFCI—Ground fault circuit interrupter. A protective device that detects abnormal current flowing to ground and then interrupts the circuit. Required by the NEC for some installations.

G-GC—A UL cable type. A portable power cable similar to Type G, but also having a ground check (GC) conductor to monitor the continuity of the grounding circuit.

GHz—Gigahertz frequency: 1,000,000,000 cycles per second.

GIGA—A numerical prefix denoting one billion (10^9).

GLAND—A device used to terminate, seal and/or ground the metallic armor of a cable as it enters a metal enclosure. Sometimes called a fitting or a connector.

GND—Common abbreviation for ground.

GREEN GOOP—A viscous liquid that occasionally oozes from the end of installed PVC cables after many years in service. Generally found to be plasticizer (a component of PVC) contaminated with a copper compound that is green in color.

GROUND—A voltage reference point that can be the same as earth or chassis ground.

Glossary

GROUND CHECK CONDUCTOR (GC)—An insulated conductor commonly used in mining cables to monitor the health of the grounding conductor(s) in the cable.

GROUND CONDUCTOR—A conductor in a transmission cable or line that is grounded.

GROUND FAULT—A type of electrical failure in which current flows to ground.

GROUND LOOP—The generation of undesirable current flow within a ground conductor, owing to the circulation currents which originate from a second source of voltage.

GROUND PLANE—Expanded copper mesh that is laminated into some flat cable constructions as a shield.

GROUND POTENTIAL—Zero potential with respect to the ground or earth.

GROUNDED NEUTRAL—The neutral wire that is metallically connected to ground.

GTO—Gas tube sign cable, UL Listed as single conductor Type GTO-5 (5,000 V), GTO-10 (10,000 V) or GTO-15 (15,000 V), in sizes 18-10 AWG copper. This cable is intended for use with gas-tube systems for signs, outline lighting, and interior lighting.

GUY—A tension wire connected to a tall structure and another fixed object to add strength to the structure.

H

HALAR—Solvay Solexis trademark for ethylene chlorotrifluoroethylene (ECTFE).

HALF DUPLEX—Two-way communications in which data are sent in only one direction at a time.

HALOGENATED—Containing halogen atoms such as chlorine, fluorine, bromine or iodine.

HALOGENS—Chemical elements such as chlorine and bromine that when present in a cable are released when burned. These materials can cause damage to human respiratory systems and to electrical equipment.

HARD-DRAWN WIRE—As applied to aluminum and copper, wire that has been cold drawn to final size so as to approach the maximum attainable strength.

HARNESS—An arrangement of wires and cables, usually with many breakouts, which have been tied together or pulled into a rubber or plastic sheath, used to interconnect an electric circuit.

HASH MARK STRIPE—A noncontinuous helical stripe applied to a conductor for identification.

HAZARDOUS LOCATION—An area of ignitable vapors, dust, or fibers that may cause fire or explosion as defined in Article 500 of the NEC. Only certain UL cable types are allowed to be used in hazardous in accordance with the NEC.

HDPE—High-density polyethylene.

HDTV—High-definition television.

HDX—Half-duplex transmission. Transmission in either direction but not in both directions simultaneously. Compare with FULL DUPLEX.

HEAD-END—A central point in broadband networks that receives signals on one set of frequency bands and retransmits them on another set of frequencies.

HEAT DISTORTION—Distortion or flow of a material or configuration due to the application of heat.

HEAT SEAL—Method of sealing a tape wrap jacket by means of thermal fusion.

HEAT SHOCK—A test to determine stability of material by sudden exposure to a high temperature for a short period of time.

HEAT SINK—A device that absorbs heat.

HEATER CORD—A group of cable types defined in Article 400 of the NEC such as types HPD, HPN, HS, HSJ, HSJO and HSO.

HELICAL STRIPE—A continuous, colored, spiral stripe applied to a conductor for circuit identification.

HELIX—Spiral winding.

HENRY—A unit of inductance equal to the inductance of a current changing at the rate of 1 ampere per second inducing a counter electromotive force of 1 volt.

HERTZ (Hz)—Cycles per second. A cycle that occurs once every second has a frequency of 1 hertz.

HF—High frequency.

HID—High-intensity discharge, mercury metal halide and sodium lamps.

HIGH BOND INSULATION—Insulation exhibiting great bond strength to the conductors.

HIGH-SPLIT—A broadband cable system in which the bandwidth used to send toward the head-end (reverse direction) is approximately 6 MHz to 180 MHz and the bandwidth used to send from the head-end (forward direction) is approximately 220 MHz to 400 MHz. The guard band between the forward and reverse directions (180 MHz to 220 MHz) provides isolation from interference.

HIGH-TEMPERATURE WIRE AND CABLE—Electrical wire and cables that have maximum operating temperatures of 150°C and higher.

HIGH-TENSION CABLES—Generally unshielded high-voltage ignition wires for combustion engines, gas and oil igniters, neon signs, etc. Usually Type GTO.

HIGH-VOLTAGE CABLE TERMINATION—A device used for terminating alternating current power cables having laminated or extruded insulation rated 2.5 kV and above.

HIGH-VOLTAGE POWER (system voltage ratings)—A class of system voltages equal to or greater than approximately 69,000 volts or less than 230,000 volts.

HINGE CABLE—A cable connected between a hinged or swinging device and a stationary object.

HIPOT—A DC high-potential test used on medium- and high-voltage cables. See DIELECTRIC STRENGTH TESTING.

HL—Hazardous location. An optional rating for UL Listed Type MC cables. Article 501 of the NEC permits Type MC-HL Listed cables to be used in Class I, Division 1 Hazardous Locations.

HMWPE—High molecular weight polyethylene.

HOLDING STRENGTH—Ability of a connector to remain assembled to a cable when under tension.

Glossary

HOOK-UP WIRE—Small wires used to hook up instruments or electrical parts, usually 12 AWG and smaller.

HOT MODULUS—Stress at 100 percent elongation after 5 minutes of conditioning at a given temperature (normally 130°C).

HOT STAMPING—Method of alphanumeric coding. Identification markings are made by pressing heated tape and marking foil into softened insulation surfaces.

HOT STICK—A long insulated stick having a hook at one end that is used to open energized switchgear, high-voltage equipment, etc. Allows safe separation of user and high-voltage source.

HOT TIN DIP—A process of passing bare wire through a bath of molten tin to provide a coating.

HOUSING—A metallic or other enclosure for an insulated splice.

HPD—A UL portable heater cord type. 300 V rating with two, three or four 18-12 AWG conductors with thermoset insulation and a cotton or rayon outer covering. For use in dry, nonhard use locations, minimum maximum operating temperature of 90°C.

HPN—A UL portable heater cord type with parallel construction. 300 V rating with two or three 18-12 AWG conductors. Oil-resistant thermoset insulation and jacket. For use in nonhard usage and damp locations, minimum maximum operating temperature of 90°C.

HSJO—A UL thermoset jacketed heater cord type. 300 V rating with two, three, or four 18-12 AWG conductors. Oil-resistant thermoset insulation and jacket. For use in non-hard usage and damp locations, minimum maximum operating temperature of 90°C.

HV—High voltage.

HYBRID CABLE—Multiconductor cable containing two or more types of components.

HYDROSCOPIC—Used to describe material that absorbs and retains moisture.

HYPALON—DuPont's trademark for chlorosulfonated polyethylene (CSP).

HYPOT—Registered trade name of Associated Research, Inc. for its high-voltage tester. See HIPOT.

HYSTERESIS—The time lag between transitions in state exhibited by a body while reacting to changes in applied forces.

Hz—Hertz. A measure of frequency or bandwidth equal to one cycle per second. Named after experimenter Heinrich Hertz.

I

I—Symbol used to designate current. From the French word for current intensity (intensite du courant).

IACS—International Annealed Copper Standard for copper used in electrical conductors. 100 percent conductivity at 20°C is 0.017241 ohm-mm^2/m.

ICEA—Insulated Cable Engineers Association. The association of cable manufacturing engineers who publish nationally recognized specifications for cables. Formerly IPCEA.

IEC—International Electrotechnical Commission.

IEEE—Institute of Electrical and Electronics Engineers. An international professional society that issues its own standards and is a member of ANSI and ISO.

IEEE 10BASE2 Network—A network conforming to the IEEE 802.3 local area network standard. The network is capable of carrying information at rates up to 10 Mbps over distances up to 2,800 meters (9,184 feet).

IEEE 10BROAD36—10 million bits per second over broadband coaxial cable with node-to-node coverage of 3,600 meters. The IEEE 802.3 specification for running Ethernet on broadband.

IEEE-488—An IEEE standard for a parallel interface bus consisting of eight bidirectional data lines, eight control lines and eight signal grounds, which provides for connection to an IEEE-488 device.

IEEE-802—Standards for the interconnection of local networking computer equipment. The IEEE-802 standard deals with the Physical Link Layers of the ISO Reference Model for OSL.

IEEE 802.3—An IEEE standard describing the physical and data link layers of a local area network based on bus topology and CSMA/CD. Ethernet.

IEEE 802.5—A physical layer standard specifying a LAN with a token-passing access method on a ring topology. Token ring.

IEEE 802.11—Wireless LAN. (Wi-Fi)

IEEE 802.15—Wireless PAN. (Bluetooth)

IF—Intermediate-frequency. In a frequency up-converter, this is the frequency between the baseband frequency and the higher frequency RF.

IMPACT TESTS—Tests designed to reveal the behavior of material of a finished part if it were subjected to impact or shock loading.

IMPEDANCE—The total opposition a circuit, cable or component offers to alternating current. It includes both resistance and reactance (frequency dependent resistance) and is generally expressed in ohms.

IMPEDANCE MATCH—A condition whereby the impedance of a particular cable or component is the same as the impedance of the circuit, cable or device to which it is connected. Matched impedances reduce reflections that decrease the power transfer efficiency.

IMPEDANCE MATCHING STUB—A section of transmission line or a pair of conductors cut to match the impedance of a load. Also called matching stub.

IMPEDANCE MATCHING TRANSFORMER—A transformer designed to match the impedance of one circuit to that of another.

IMSA—International Municipal Signal Association.

IN-BAND SIGNALING—The transmission of signaling information at some frequency or frequencies that lie within a carrier channel normally used for information transmission.

INCOHERENT SOURCE—A fiber optic light source that emits wide, diffuse beams of light of many wavelengths.

INDEX EDGE—Edge of a flat (ribbon) cable from which measurements are made, normally indicated by the location of the printing which is near the index edge. Sometimes indicated by a thread or other identification stripe.

Glossary

INDOOR TERMINATION—A cable termination intended for use where it is protected from direct exposure to both solar radiation and precipitation.

INDUCTANCE—A property of a conductor or circuit that resists a change in current. It causes current changes to lag behind voltage changes and is measured in henrys.

INDUCTION—The phenomenon of a voltage, magnetic field or electrostatic charge being produced in an object by lines of force from an outside source.

INDUCTION HEATING—Heating a conducting material by placing it in a rapidly changing magnetic field. The changing field induces electric currents in the material and I^2R losses account for the resultant heat.

INDUCTIVE COUPLING—Crosstalk resulting from the action of the electromagnetic field of one conductor on the other.

INDUSTRIAL ETHERNET CABLES—Cables specially designed to withstand the mechanical, chemical and electrical rigors of an industrial environment. Widely used in industrial process control networks.

INPUT—(1) A signal (or power) that is applied to a piece of electric apparatus. (2) The terminals on the apparatus to which a signal or power is applied.

INSERTION LOSS—A measure of the attenuation of a device by determining the output of a system before and after the device is inserted into the system.

INSERTION TOOL—A small, hand-held tool used to insert contacts into a connector.

INSULATED RADIANT HEATING WIRE—Similar to blanket wire but heavier construction for applications such as in ceiling panels, buried in ground or driveway and concrete walks.

INSULATED SPLICE—A splice with a dielectric medium applied over the connected conductors and adjacent cable insulation.

INSULATING (ISOLATING) JOINT—A cable joint that mechanically couples and electrically separates the sheath, shield and armor on contiguous lengths of cable.

INSULATION—A material having good dielectric properties that is used to separate close electrical components, such as cable conductors and circuit components.

INSULATION LEVEL—A thickness rating for power cable insulation. Circuits having fault detectors that interrupt fault currents within one minute are rated 100 percent level, within one hour are rated 133 percent level and over one hour are rated 173 percent level.

INSULATION TEMPERATURE RATING—A maximum operating temperature assigned to insulations based on laboratory testing.

INSULATION RESISTANCE—The electrical resistance of an insulating material at a specific time and condition as measured between two conductors.

INSULATION STRESS—The potential difference across an insulator. The stress on insulation is expressed in volts per mil (V/m) or kilovolts per meter (kV/m).

INSULATION THICKNESS—The wall thickness of wire insulation.

INSULATION VOLTAGE RATING—The nominal phase-to-phase operating voltage of a three-phase cable system.

INTERAXIAL SPACING—Center-to-center conductor spacing in paired wire or center-to-center spacing between conductors in a flat cable.

INTERCALATED TAPES—Two or more tapes helically wound and overlapped on a cable.

INTERCONNECTING CABLE—The wiring between modules, units or the larger portions of a system.

INTERCONNECTION—The joining of devices mechanically to complete an electrical circuit.

INTERFACE—The two surfaces on the contact side of both halves of a multiple-contact connector that face each other when the connector is assembled.

INTERFERENCE—Disturbances of an electrical or electromagnetic nature that introduce undesirable responses into other electronic equipment.

INTERMEDIATE FREQUENCY—A frequency to which a signal is converted for ease of handling. Receives its name from the fact that it is an intermediate step between the initial and final conversion or detection stages.

INTERMEDIATE TEMPER—As applied to aluminum, any temper between soft and hard drawn.

INTERNAL WIRING—Electronic wiring that interconnects components, usually within a sealed subsystem.

INTERSTICE—The space or void between assembled conductors and within the overall circumference of the assembly.

INTRINSICALLY SAFE—Incapable of releasing sufficient electrical or thermal energy under normal or abnormal conditions to cause ignition of a specific hazardous atmospheric mixture in its most ignitable concentration. See Article 504 of the NEC.

I/O—Input/Output. The process of transmitting data to and from the processor and its peripherals.

IONIZATION—(1) The creation of ions when polar compounds are dissolved in a solvent. (2) When a liquid, gas or solid is caused to lose or gain electrons due to the passage of an electric current.

IONIZATION FACTOR—This is the difference between percent dissipation factors at two specified values of electrical stress; the lower of the two stresses is usually so selected that the effect of the ionization on dissipation factor at this stress is negligible.

IONIZATION VOLTAGE—The potential at which a material ionizes. The potential at which an atom gives up an electron.

IR DROP—A method of designating a voltage drop in terms of both current and resistance.

IRRADIATION—In insulations, the exposure of the material to high-energy emissions for the purpose of favorably altering the molecular structure.

ISDN—Integrated Services Digital Network. A standard that covers a wide range of data communication issues but primarily the integration of voice and data.

ISO—International Organization for Standardization.

ISO 9000—A set of quality standards widely used around the world.

ISOLATION—The ability of a circuit or component to reject interference, usually expressed in dB.

ITU—International Telecommunications Union.

I^2R—Formula for power in watts, where I = current in amperes, R = resistance in ohms. See WATT.

Glossary

J

JACK—A plug-in type terminal widely used in electronic apparatus for temporary connections.

JACKET—Pertaining to wire and cable, the outer sheath that protects against the environment and may also provide additional insulation.

JAN SPECIFICATION—Joint Army-Navy specification (replaced by current military specifications).

JET STARTER CABLE—Single conductor 600 V cable used for external aircraft power.

JITTER—The slight movement of a transmission signal in time or phase that can introduce errors and loss of synchronization in high-speed synchronous communications.

JOINT—That portion of the conductor where the ends of two wires, rods or groups of wires are joined by brazing, soldering, welding or by mechanical means.

JOULE'S LAW—When electricity flows through a material the rate of heating in watts will equal the resistance of the material in ohms times the square of the current in amperes. $W = I^2R$.

JUMPER CABLE—Extra flexible cables with high-voltage insulation for use as temporary connections. Usually has a red jacket.

K

KAPTON—DuPont's trademark for polyimide.

kB—Kilobyte. 1,024 bytes. Transmission speeds are measured in kB/second.

kbps—Thousands of bits per second (bps).

kcmil—One thousand circular mils, replaced "MCM" in the 1990 NEC. Sometimes shortened to "kcm."

KEVLAR—A high-strength DuPont polymer used as a cable messenger or strength member.

K-FIBER—A polyaramid-based material used for jacketing high-temperature cables.

KILO—Prefix meaning thousand.

kV—Kilovolt (1,000 volts).

kVA—Kilovolt ampere.

kW—Kilowatt. 1,000 watts of power.

KYNAR—Arkema Inc. trademark for polyvinylidene fluoride (PVDF).

L

L—Symbol for inductance.

LACING AND HARNESSING—A method of grouping wires by securing them in bundles of designated patterns.

LACQUER—A liquid resin or compound applied to textile braid to prevent fraying, moisture absorption, etc.

LAMINATED TAPE—A tape consisting of two or more layers of different materials bonded together.

LAN—Local area network. A user-owned, user-operated, high-volume data transmission facility connecting a number of communicating devices within a single building or campus of buildings.

LASER DIODE—A semiconductor diode that emits coherent light.

LAUNCH ANGLE—The angle between the radiation vector and the axis of an optical fiber.

LAY—Pertaining to wire and cable, the axial distance required for one cabled conductor or conductor strand to complete one revolution about the axis around that it is cabled.

LAY DIRECTION—The twist in the cable as indicated by the top strands while looking along the axis of the cable away from the observer. Described as "right hand" or "left hand."

LAYER—Consecutive turns of a coil lying in a single plane.

L BAND—The band of frequencies between 390 and 1,550 megahertz.

LEACHING AND NONLEACHING—In a leaching wire the plasticizer will migrate when exposed to heat. A nonleaching wire will retain its plasticizer under extreme temperature conditions and remain flexible after baking.

LEAD—A wire, with or without terminals, that connects two points in a circuit.

LEAD CURED—A cable that is cured or vulcanized in a metallic lead mold.

LEAD-IN—The conductor or conductors that connect the antenna proper to electronic equipment.

LEAKAGE CURRENT—An undesirable flow of current through or over the surface of an insulating material.

LEAKAGE DISTANCE—The shortest distance along an insulation surface between conductors.

LED—Light-emitting diode; device that accepts electrical signals and converts the energy to a light signal; with lasers, the main light source for optical-fiber transmission, used mainly with multimode fiber.

LENGTH OF LAY—The axial length of one turn of the helix of a wire or member. See LAY.

LEVEL—A measure of the difference between a quantity or value and an established reference.

LF—Low frequency. A band of frequencies extending from 30 to 300 kHz in the radio spectrum, designated by the Federal Communications Commission.

LIFE CYCLE TESTING—A test to determine the length of time before failure in a controlled, usually accelerated environment.

LIGHTNING GROUND CABLE—A specially stranded single conductor cable used to connect lightning rods (air terminals) to grounding rods.

LIGHT SOURCE—An object capable of emitting light. In fiber optics, the light source is normally a LED or a laser.

LIMITS OF ERROR—The maximum deviation (in degrees or percent) of the indicated temperature of a thermocouple from the actual temperature.

LIMPNESS—The ability of a cable to lay flat or conform to a surface.

Glossary

LINE BALANCE—The degree to which the conductors of a cable are alike in their electrical characteristics with respect to each other, to other conductors and to ground.

LINE DROP—A voltage loss occurring between any two points in a power transmission line. Such loss, or drop, is due to the resistance, or leakage of the line.

LINE EQUALIZER—A reactance (inductance and/or capacitance) connected in series with a transmission line to alter the frequency-response characteristics of the line.

LINE FAULT—A fault such as an open circuit, short circuit or ground in an electrical line or circuit.

LINE LEVEL—The level of a signal at a certain point on a transmission line. Usually expressed in decibels.

LINE LOSS—A total of the various energy losses occurring in a transmission line.

LINE VOLTAGE—The value of the potential existing on a supply or power line.

LITZ WIRE—Very fine, e.g. #44 AWG bare copper, each strand is enamel insulated. Used for low inductance coil windings.

LOAD—A device that consumes or converts the power delivered by another device.

LOAD CELL CABLE—Small multiconductor shielded cables for connecting load cells with instruments in electronic strain gauges. Also used for weighing and force measurement applications.

LOADED LINE—A transmission line that has lumped elements (inductance or capacitance) added at uniformly spaced intervals. Loading is used to provide a given set of characteristics to a transmission line.

LOC-TRAC—Alpha's registered trademark for a zipper tubing closure track that does not require any sealants to keep it closed, even during extreme flexing.

LOCAL AREA NETWORK (LAN)—A network that is located in a localized geographical area (e.g., an office, building, complex of buildings, or campus), and whose communications technology provides a high-bandwidth, low-cost medium to which many nodes can be connected.

LOGGING CABLE—Usually FEP/Tefzel self-supporting instrumentation cable. Generally dropped through borings in subsurface mining or well applications.

LONGITUDINAL SHIELD—A tape shield, flat or corrugated, applied longitudinally with the axis of the cable.

LONGITUDINAL SHRINKAGE—A term generally applied to shrink products denoting the axial length lost through heating in order to obtain the recovered diameter.

LONGITUDINAL WRAP—Tape applied longitudinally with the axis of the core being covered.

LONGWALL MACHINE—A mining machine used to undercut coal.

LOOP RESISTANCE—The total resistance of two conductors measured round trip from one end. Commonly used term in the thermocouple industry.

LOOP TEST—A long line test where a good line is connected to a faulty line to form a loop in which measurements will locate the fault.

LOSS—The portion of energy applied to a system that is dissipated and performs no useful work.

LOSS FACTOR—The power factor times the dielectric constant.

LOW BOND INSULATION—An insulation that exhibits a small bond strength to the conductors.

LOW FREQUENCY—A band of frequencies extending from 30 to 300 kHz in the radio spectrum, designated by the Federal Communications Commission.

LOW-LOSS DIELECTRIC—An insulating material that has a relatively low dielectric loss, such as polyethylene or Teflon. Dielectrics with tan below 0.01 (approximately) are considered low-loss materials.

LOW-NOISE CABLE—A cable specially constructed to eliminate spurious electrical disturbances caused by capacitance changes or self-generated noise induced by either physical movement or adjacent circuitry.

LOW TENSION—Low voltage, as applied to ignition cable.

LOW VOLTAGE—(1) As defined in the National Electrical Code, a system rated nominal 24 volts or less, supplied from a transformer, converter, or battery. (2) A power system voltage rating of 1,000 volts or less.

LPF—Low pass filter. A filter that greatly attenuates signals of higher than a specified frequency, but passes with minimal attenuation all signals lower in frequency.

LS (LOW SMOKE)—An optional rating for UL Listed cable types that also pass low smoke requirements contained in UL Standards. A cable that meets the requirements can be marked "LS."

LSZH—Abbreviation for low smoke, zero halogen. Sometimes also written LS0H (0=zero).

LUMEN—(lm) A SI unit of measurement for light output as perceived by the human eye. Defined as candela-steradians and abbreviated "lm."

LV—Low voltage.

M

mA—Milliampere (one-thousandth of an ampere).

MAGNET WIRE—Insulated wire used in the windings of motors, transformers and other electromagnetic devices.

MAGNETIC FIELD—The field created when current flows through a conductor.

MAP—Manufacturing automation protocol. The OSI profile championed by General Motors Corporation to provide interconnectivity between plant hosts, area managers and cell controllers over a broadband token-passing bus network.

MARKER TAPE—A tape laid parallel to the conductors under the sheath in a cable, imprinted with the manufacturer's name and the specification to which the cable is made.

MARKER THREAD—A colored thread laid parallel and adjacent to the strand in an insulated conductor that identifies the manufacturer and sometimes the specification to which the wire is made.

MASTIC—A meltable coating used on the inside of some shrink products that when heated flows to help create a waterproof seal.

MATV—Master Antenna Television System. A combination of components providing multiple television receiver operations from one antenna or group of antennas.

Glossary

MAXIMUM CABLE DIAMETER—The largest cable diameter that a high-voltage cable termination is designed to accommodate.

MINIMUM CABLE DIAMETER—The smallest cable diameter that a high-voltage cable termination is designed to accommodate.

MAXIMUM DESIGN VOLTAGE—The maximum voltage at which a high-voltage cable termination is designed to operate continuously under normal conditions.

MC—(1) Main cross-connect. (2) A UL cable type (metal clad).

MECHANICAL WATER ABSORPTION—A check of how much water will be absorbed by material in warm water for seven days (mg/sq. in. surface).

MEDIUM FREQUENCY—The band of frequencies between 300 and 3,000 kilohertz.

MEDIUM HARD-DRAWN WIRE—As applied to copper wire, having tensile strength less than the minimum for hard-drawn wire, but greater than the maximum for soft wire.

MEDIUM VOLTAGE—A class of nominal power system voltage ratings between 2.4 and 46 kV.

MEGA—Prefix meaning million.

MEGAHERTZ (MHz)—One million cycles per second.

MEGGER—A special ohmmeter for measuring very high resistance. Primarily used for checking the insulation resistance of cables; however, it is also useful for equipment leakage tests.

MELT INDEX—The extrusion rate of a material through a specified orifice under specified conditions.

MEMBER—A group of wires stranded together that is in turn stranded into a multiple-membered conductor.

MESSENGER WIRE—A metallic supporting member either solid or stranded that may also perform the function of a conductor.

MFD—Microfarad (one-millionth of a farad). Obsolete abbreviation.

MFT—Abbreviation for 1,000 feet. M is one thousand in the Roman numeral system.

MG—Glass reinforced mica tape insulated cable with an overall sheath of woven glass yarn impregnated with a flame, heat and moisture resistant finish. 450°C, 600 V appliance wire.

MHO—The unit of conductivity. The reciprocal of an ohm.

MHz—Megahertz (one million cycles per second).

MI—A UL cable type. One or more conductors insulated with highly compressed refractory minerals and enclosed in a liquid-tight and gas-tight metallic tube sheathing.

MICA—A transparent silicate that separates into layers and has high insulation resistance, high dielectric strength and high heat resistance.

MICRO—Prefix meaning one-millionth.

MICROBENDING LOSS—A signal loss due to small geometrical irregularities along the core-cladding interface of optical fibers.

MICROFARAD—One-millionth of a farad (abbreviated μf).

MICROMICROFARAD—One-millionth of a microfarad (abbreviated $\mu\mu$f). Also, a picofarad (pf).

MICROPHONE CABLE—A very flexible, usually shielded cable used for audio signals.

MICROPHONICS—Noise caused by mechanical movement of a system component. In a single conductor microphone cable, for example, microphonics can be caused by the shield rubbing against the dielectric as the cable is flexed.

MICROWAVE—A short (usually less than 30 cm wavelength) electrical wave.

MID-SPLIT—A broadband cable system in which the cable bandwidth is divided between transmit and receive frequencies. The bandwidth used to send toward the headend (reverse direction) is approximately 5 MHz to 100 MHz and the bandwidth used to send away from the head-end (forward direction) is approximately 160 MHz to 300 MHz.

MIL—A unit of length equal to one-thousandth of an inch (.001 in. = 1 mil).

MIL-SPEC—Military specification.

MIL-DTL-17—A military specification covering many coaxial cables. Formerly MIL-C-17.

MIL-DTL-16878—A military specification covering various wires intended for internal wiring of electric and electronic equipment. Formerly MIL-C-16878.

MIL-W-22759—A military specification for fluorocarbon insulated copper and copper alloy wire. Replaced by SAE AS22759.

MILLI—Prefix meaning one-thousandth.

MIPS—Millions of instructions per second. One measure of processing power.

MODULATION—Systematic changing of properties, e.g., amplification, frequency, phase of an analog signal to encode and convey (typically digital) information.

MODULUS OF ELASTICITY—The ratio of stress (force) to strain (deformation) in a material that is elastically deformed.

MOISTURE ABSORPTION—The amount of moisture, in percentage, that a material will absorb under specified conditions.

MOISTURE RESISTANCE—The ability of a material to resist absorbing moisture from the air or when immersed in water.

MOLDED PLUG—A connector molded on either end of a cord or cable.

MONO FILAMENT—A single-strand filament as opposed to a braided or twisted filament.

MONOMER—The basic chemical unit used in building a polymer.

MOTOR LEAD WIRE—Wire that connects to the fragile magnet wire found in coils, transformers and stator or field windings.

MPF—Mine power feeder cables. Usually rated 5, 8, or 15 kV.

MSHA—Mine Safety and Health Administration. The Federal enforcement agency for employee safety in mines and mills. Formerly known as MESA, Bureau of mines. MSHA regulations appear in CFR (Code of Federal Regulations) Title 30, Chapter 1.

MTW—Machine tool wire, a UL cable type. Thermoplastic insulated, 90°C to 105°C, 600 V. UL 1063 is the governing standard.

MULTICAST—The ability to broadcast messages to one node or a select group of nodes.

MULTIMODE—Optical fiber that allows more than one mode (or ray) of light to propagate.

Glossary

MULTIPLE-CONDUCTOR CABLE—A combination of two or more conductors cabled together and insulated from one another and from sheath or armor where used.

MULTIPLE-CONDUCTOR CONCENTRIC CABLE—An insulated central conductor with one or more tubular stranded conductors laid over it concentrically and insulated from one another.

MULTIPLEX—The use of a common physical channel in order to make two or more logical channels, either by splitting of the frequency band (frequency-division multiplex) or by using this common channel at different points in time (time-division multiplex).

MULTIPLEXER—Equipment that permits simultaneous transmission of multiple signals over one physical circuit.

MULTIPOINT CIRCUIT—A single line connecting three or more stations.

MURRAY LOOP TEST—A method used to localize cable faults.

MUTUAL CAPACITANCE—Capacitance between two conductors in a cable.

MUX—Multiplex. To transmit two or more signals over a single channel.

mV—Millivolt (one-thousandth of a volt).

MV—Medium-voltage cables. Usually rated 5–35 kV.

mW—Milliwatt (one-thousandth of a watt).

MYLAR—DuPont's trademark for polyethylene terephthalate (polyester) film.

N

NBR—Butadiene-acrylonitrile copolymer rubber, a material with good oil and chemical resistance.

NBR/PVC—A blend of acrylonitrile-butadiene rubber and polyvinyl chloride (PVC). Used for jacketing.

NBS—National Bureau of Standards. Now called NIST (National Institute of Standards and Technology).

N CONNECTOR—A threaded connector for coax; N is named after Paul Neill.

NEC—National Electrical Code.

NEGATIVE SEQUENCE IMPEDANCE—The electrical impedance of a three-phase power cable with the phase rotation reversed as compared to normal operation. Has the same numerical value as the positive sequence impedance. "Negative sequence" refers to the phase relationship of the currents in the conductors.

NEMA—National Electrical Manufacturers Association.

NEOPRENE—A synthetic rubber with good resistance to oil, chemicals and flame. Also called polychloroprene.

NETWORK—A series of nodes connected by communications channels.

NEWTON—The derived SI unit for force; the force that will give one kilogram mass an acceleration of one meter per second. Equals 0.2248 pounds force.

NEXT—Near-end crosstalk. A measure of the unwanted signal coupling from a transmitter at the near-end into a neighboring (nonenergized) pair measured at the near-end.

NFPA—National Fire Protection Association. Publishes the NEC and other codes and standards.

NICKEL CLAD COPPER WIRE—A wire with a layer of nickel on a copper core where the area of the nickel is approximately 30 percent of the conductor area.

NIST—National Institute of Standards and Technology. Formerly the National Bureau of Standards.

NM-B—A UL cable type rated 600 volts and intended for use per Article 334 of the NEC. Nonmetallic sheathed cable. For dry use, 90°C conductor rating.

NMC-B—A UL cable type rated 600 volts and intended for use per Article 334 of the NEC. Nonmetallic sheathed cable. Wet or dry use, 90°C conductor rating.

NODE—A station or point in a network.

NOISE—In a cable or circuit any extraneous sounds or signal that tends to interfere with the sound or signal normally present in or passing through the system.

NOMEX—DuPont's trademark for a heat-resistant, flame-retardant nylon.

NOMINAL—Name or identifying value of a measurable property by which a conductor or component or property of a conductor is identified and to which tolerances are applied.

NOMINAL VOLTAGE (NATIONAL ELECTRICAL CODE)—A nominal value assigned to a circuit or system for the purpose of conveniently designating its voltage class (as 120/240, 480Y/277, 600 volts, etc.). The actual voltage at which a circuit operates can vary from the nominal within a range that permits satisfactory operation of equipment.

NOMOGRAPH—A chart or diagram with which equations can be solved graphically by placing a straight edge on two known values and reading the answer where the straight edge crosses the scale of the unknown value.

NONCONTAMINATING—A type of PVC jacket material whose plasticizer will not migrate into the dielectric of a coaxial cable and thus avoid contaminating and destroying the dielectric.

NONCONTAMINATING PVC—A polyvinyl chloride formulation that does not produce electrical contamination through plasticizer migration.

NONFLAMMABLE—The property of a material that is not capable of being easily ignited.

NONMIGRATING PVC—Polyvinyl chloride compound formulated to inhibit plasticizer migration.

NRZI—Nonreturn to zero inverted. A binary encoding technique in which a change in state represents a binary 0 and no change in state represents a binary 1.

N-SERIES CONNECTOR—A coaxial connector (RG-8/U) used in standard Ethernet networks.

NTSC—National Television System Committee. Defined the U.S. standard definition color TV standard.

NUMERICAL APERTURE—The acceptance angle of an optical fiber that determines the angle at which light can enter the fiber; expressed as a number that is equivalent to the sine of the angle.

NYLON—An abrasion-resistant thermoplastic with good chemical resistance. Polyamide.

Glossary

O

O.D.—Outside diameter.

OEM—Original equipment manufacturer.

OFHC—Oxygen-free high-conductivity copper.

OHM—The electrical unit of resistance. The value of resistance through which a potential difference of one volt will maintain a current of one ampere.

OHM'S LAW—Stated V = IR, I = V/R, or R = V/I where V is voltage, I is current in amperes and R is resistance in ohms.

OIL AGING—Cable aged in an accelerated manner by placement in an oil bath and heated to a preset temperature for a stated time.

OPEN CELL—Foamed or cellular material with broken cell walls. Air fills in the spaces in the material. Usually softer and less expensive than closed cell material.

OPEN CIRCUIT—A break in an electrical circuit so there can be no current flow.

OPTICAL CONDUCTOR—Materials that offer a low optical attenuation to transmission of light energy.

OPTICAL CROSS-CONNECT—A cross-connect unit used for circuit administration. It provides for the connection of individual optical fibers with optical fiber patch cords.

OPTICAL ENCODER—A device whose position is determined by a photoelectric device and converted to an electrical data output.

OPTICAL FIBER—Any filament or fiber, made of dielectric materials, that is used to transmit light signals; optical fiber usually consists of a core, which carries the signal and cladding, a substance with a higher refractive index than the core, which surrounds the core and serves to reflect the light signal. See also FIBER OPTICS.

OPTICAL WAVEGUIDE—A fiber used for optical communications. Analogous to a waveguide used for microwave communications.

OSCILLATORY SURGE—A surge that includes both positive and negative polarity values.

OSCILLOSCOPE—Test instrument for visually showing the changes in a varying voltage by means of a line made on a fluorescent screen using the deflection of a beam of cathode rays.

OSHA—Abbreviation for Occupational Safety and Health Act. Specifically the Williams-Steiger laws passed in 1970 covering all factors relating to safety in places of employment.

OSMOSIS—The diffusion of fluids through membranes.

OTDR—Optical time domain reflectometer. A device used for testing and characterization of fiber optic cables.

OUTDOOR TERMINATION—A cable termination intended for use where it is not protected from direct exposure to either solar radiation or precipitation.

OUTGASSING—Dissipation of gas from a material.

OUTPUT—The useful power or signal delivered by a circuit or device.

OVERALL DIAMETER—Finished diameter of a wire or cable.

OVERCOAT CONDUCTOR—A stranded conductor made from individual strands of tin-coated wire stranded together and then given an overall tin coat.

OVERLAP—The amount the trailing edge laps over the leading edge of a spiral tape wrap.

OXYGEN INDEX—A test to rate relative flammability of materials in a mixture of oxygen and nitrogen. More formally referred to as limiting oxygen index (LOI). Usually defined as the percentage of oxygen in air required to sustain combustion of the material.

OZONE—An extremely reactive form of oxygen, normally occurring around electrical discharges and present in the atmosphere in small but active quantities. In sufficient concentrations it can break down certain insulations.

P

PAIR—Two insulated wires of a single circuit associated together; also known as a "balanced" transmission line.

PARALLEL CIRCUIT—A circuit in which identical voltage is presented to all components and the current divides among the components according to the resistances or the impedances of the components.

PARALLEL STRIPE—A stripe applied longitudinally on a wire or cable parallel to the axis of the conductor.

PARALLEL TRANSMISSION—A type of data transfer in which all bits of a character, or multiple-bit data blocks, are sent simultaneously, either over separate communications lines or circuits, over a single channel using multiple frequencies, or over a multiple-conductor cable.

PARTIAL DISCHARGE (CORONA) EXTINCTION VOLTAGE—The voltage at which partial discharge (corona) is no longer detectable on instrumentation adjusted to a specific sensitivity, following the application of a specified higher voltage.

PATCH CABLE—A cable with plugs or terminals on each end of the conductors to connect circuits of equipment together. Commonly used in data centers to interconnect computer networking hardware.

PAYOFF—The process of feeding a cable or wire from a bobbin, reel or other package. The payoff is the source reel. Wire is fed from a payoff reel onto a take-up reel.

PBDE—Polybrominated diphenyl ether. A class of flame retardants sometimes used in wire and cable products. PBDEs are generally banned by European Union RoHS regulations.

PCB—Printed circuit board. Also referred to as PWB (printed wiring board) to distinguish this usage from the chemical usage (polychlorinated biphenyls–persistent organic pollutants that are banned in many countries).

PCP—Polychloroprene (neoprene).

PDN—Public data network. A packet-switched or circuit-switched network available for use by many customers. PDNs may offer value-added services at a reduced cost because of communications resource sharing and usually provide increased reliability due to built-in redundancy.

PE—Polyethylene. A widely used thermoplastic insulation and jacket compound.

PEAK—The maximum instantaneous value of a varying current or voltage, different from the rms value that is usually used to categorize AC voltages. Also called crest.

Glossary

PEEK—Poly ether ether ketone. A colorless organic thermoplastic used for its robustness.

PEEL STRENGTH—The force necessary to peel a flexible member from another member that may be either flexible or rigid.

PERCENT CONDUCTIVITY—The ratio of the resistivity of the International Annealed Copper Standard (IACS) at 20°C to the resistivity of a material at 20°C, expressed in percent. Results are calculated on a weight basis or volume basis and so specified.

PERCENT PLATING—Quantity of plating on a conductor expressed as a percentage by weight.

PERCENTAGE CONDUCTIVITY—Conductivity of a material expressed as a percentage of that of copper.

PFA—Perfluoroalkoxy. Teflon is DuPont's trademark for this material.

PHASE—The location of a position on a waveform of an alternating current, in relation to the start of a cycle. Measured in degrees, with 360 corresponding to one complete cycle.

PHASE SEQUENCE—The order in which successive members of a periodic wave set reach their positive maximum values: a) zero phase sequence–no phase shift; and b) plus/minus phase sequence–normal phase shift.

PHASE SHIFT—A change in the phase relationship between two alternating quantities. The phase angle between the input and output signals of a system.

PHOTOVOLTAIC WIRE (PV WIRE)—A UL cable type. 600 V, 1,000 V, 2,000 V, insulated, stranded single conductor wire used to connect photovoltaic electricity generating panels to each other and to collection, distribution and utilization equipment.

PICK—Distance between two adjacent crossover points of braid filaments. The measurement in picks per inch indicates the degree of coverage.

PICO—Prefix meaning one-millionth of one-millionth (10^{-12}).

PICOFARAD—One-millionth of one-millionth of a farad (10^{-12}). A micromicrofarad, or picofarad (abbreviation pF).

PIGTAIL WIRE—Fine stranded, extra flexible, rope lay lead wire attached to a shield for terminating purposes.

PILC CABLE—Paper insulated, lead covered. Old cable style present in many urban distribution networks. Most are scheduled for replacement due to lead content and age.

PIN ASSIGNMENT—A predetermined relationship between the terminals in a connector and the conductors in a cable that specifies the terminals to which each conductor is to be terminated.

PITCH—In flat cable, the nominal distance between the index edges of two adjacent conductors.

PITCH DIAMETER—Diameter of a circle passing through the center of the conductors in any layer of a multiconductor cable.

PLANETARY TWISTER—A cabling machine whose payoff spools are mounted in rotating cradles that hold the axis of the spool in a fixed direction as the spools are revolved so the wire will not kink as it is twisted.

PLASTICIZER—A chemical added to plastics to make them softer and more flexible.

PLATED HOLE—A hole with walls that have been plated with conductive material to provide an electrical connection between the conductive patterns on both sides of a printed circuit or an anchor for soldering an inserted wire.

PLC—Programmable logic controller. A type of industrial control system.

PLENUM—The air return path of a central air handling system, either ductwork or open space over a suspended ceiling.

PLENUM CABLE—Cable approved by a recognized agency such as UL for installation in plenums without the need for conduit due to a higher flame resistance rating.

PLTC—Power limited tray cable, rated 300 volts.

PLUG—The part of the two mating halves of a connector that is movable when not fastened to the other mating half.

PLY—The number of individual strands or filaments twisted together to form a single thread.

POINT-TO-POINT WIRING—An interconnecting technique wherein the connections between components are made by wires routed between connecting points.

POLARIZATION—(1) The orientation of a flat cable or a rectangular connector. (2) Orientation of the electric field in an electromagnetic wave. Common characteristic of antennas.

POLISHING—Act of smoothing ends of optical fibers to an "optically smooth" finish, generally using abrasives.

POLYAMIDE—The chemical name for nylon.

POLYARAMID—Generic name for Kevlar. Sometimes also referred to as aramid fiber.

POLYBUTADIENE—A type of synthetic rubber often blended with other synthetic rubbers to improve their properties.

POLYCHLOROPRENE—See NEOPRENE.

POLYESTER—Polyethylene terephthalate, used extensively as a moisture-resistant cable core wrap. Mylar is DuPont's trademark for polyester.

POLYETHYLENE—A thermoplastic material having excellent electrical properties.

POLYHALOCARBON—A general name for polymers containing halogen atoms. The halogens are flourine, chlorine, bromine and iodine.

POLYIMIDE—A relatively high-temperature plastic developed for use as a dielectric or jacketing material. Kapton is DuPont's trademark for polyimide.

POLYMER—A substance made of many repeating chemical units or molecules. The term polymer is often used in place of plastic, rubber or elastomer.

POLYOLEFINS—A family of plastics including cross-linked polyethylene and various ethylene copolymers.

POLYPROPYLENE—A thermoplastic similar to polyethylene but stiffer and having a higher temperature softening point.

POLYURETHANE—Broad class of polymers noted for good abrasion and solvent resistance. Can be in solid or cellular form.

POLYVINYL CHLORIDE (PVC)—A general purpose thermoplastic used for wire and cable insulations and jackets.

POROSITY—Generally defined as the percentage of space occupied by voids in an insulation cross section.

Glossary

PORT—A point of access into a computer, a network or other electronic device; the physical or electrical interface through which one gains access; the interface between a process and a communications or transmission facility.

P.O.S.—Abbreviation for point-of-sale (e.g., a cash register station).

POSITION CODING—Identification of conductors by their location, possible only when conductors are located in assigned positions with relation to each other throughout the entire length of a cable.

POSITIVE SEQUENCE IMPEDANCE—The electrical impedance of a three-phase power cable during normal operation. A cable parameter used by electrical system engineers to calculate voltage drop. "Positive sequence" refers to the phase relationship of the currents in the conductors.

POTTING—Sealing by filling with a substance to exclude moisture.

POWER—The amount or work per unit of time. Usually expressed in watts and equal to I^2R in electrical systems.

POWER CABLES—Cables of various sizes, constructions and insulations, single or multiconductor, designed to distribute primary power to various types of equipment.

POWER FACTOR (PF)—The cosine of the phase difference between current and applied voltage or the ratio of real power flow to the apparent power flow expressed as a ratio between zero and one. Resistive loads have a power factor of unity. Nonlinear loads have PFs less than one.

POWER LOSS—The difference between the total power delivered to a circuit, cable, or device and power delivered by that device to a load.

POWER RATIO—The ratio of the power appearing at the load to the input power. Expressed in dB, it is equal to 10 log10 (P2/P1) where P1 is input power and P2 is the power at the load.

PPE—Polypropylene ethylene.

PREBOND—Stranded wire that has been fused, topcoat tinned or overcoat tinned.

PREMOLDED SPLICE—A joint made of premolded components assembled in the field.

PRIMARY—The transformer winding that receives the energy from a supply current.

PRIMARY INSULATION—The first layer of nonconductive material applied over a conductor, whose prime function is to act as electrical insulation.

PRINTING WIRING—A printed circuit intended to provide point-to-point electrical connections.

PRODUCTION TESTS—Tests made on components or subassemblies during production for the purpose of quality control.

PROPAGATION DELAY—The time it takes a signal, composed of electromagnetic energy to travel from one point to another over a transmission channel; usually most noticeable in communicating with satellites; normally, the speed-of-light delay.

PROPAGATION TIME—Time required for a wave or pulse to travel between two points on a transmission line.

PROPAGATION VELOCITY—The velocity of the propagation of a wave or pulse along a transmission path.

PROTECTIVE COVERING—A field-applied material to provide environmental protection over a splice or housing, or both.

PROXIMITY EFFECT—Nonuniform current distribution over the cross-section of a conductor caused by the variation of the current in a neighboring conductor.

PSAACRF—Power sum insertion loss to alien crosstalk ratio far-end. A computation of signal coupling from multiple pairs of disturbing channels, to a disturbed pair in another channel measured at the far-end and relative to the received signal level in the disturbed pair at the far-end. Also referred to as power sum alien equal-level far-end crosstalk (PSAELFEXT).

PSANEXT—Power sum alien near-end crosstalk. A computation of signal coupling from multiple near-end disturbing channel pairs into a disturbed pair of a neighboring channel or part thereof, measured at the near-end.

PSAFEXT—Power sum alien far-end crosstalk. A computation of signal coupling from multiple near-end disturbing channel pairs into a disturbed pair of a neighboring channel or part thereof, measured at the far-end.

PSNEXT—Power sum near-end crosstalk. A computation of the unwanted signal coupling from multiple transmitters at the near-end into a neighboring (non-energized) pair measured at the near-end.

PT—Thermostat cable with solid conductor, individual insulation, twisted together.

PTFE—Polytetrafluorobthylene. One type of Teflon. Sometimes abbreviated TFE.

PULLING EYE—A device attached to a conductor to pull cable into or from a duct.

PULSE—A current or voltage that changes abruptly from one value to another and back to the original value in a finite length of time.

PULSE CABLE—A type of coaxial cable constructed to transmit repeated high-voltage pulses without degradation.

PVC—Polyvinyl chloride. A common insulating and jacketing material used on cables.

PVC-I—A MIL-DTL-17 coax jacket type. A black polyvinyl chloride with excellent weathering and abrasion properties, but is a contaminating type and will cause cable attenuation to increase with age. Can be used for direct burial.

PVC-II—A MIL-DTL-17 coax jacket type. A gray polyvinyl chloride material which is semi-noncontaminating.

PVC-IIA—A MIL-DTL-17 coax jacket type. A black or gray polyvinyl chloride material that is noncontaminating. It has good weathering and abrasion-resistant properties and can be used for direct burial.

PVDF—Polyvinylidene difluoride. Arkema Inc.'s trademark for this material is Kynar.

PWB—Printed wiring board. Replacing PCB in common usage to avoid confusion with chemical PCBs.

PYROMETER—See THERMOCOUPLE.

Q

Q band—The band of frequencies between 36 and 46 gigahertz.

QPL—A Qualified Products List issued by the U.S. government.

QUAD—A series of four separately insulated conductors, generally twisted together in pairs.

Glossary

R

R—Symbol for electrical resistance.

RADIO FREQUENCY—The frequencies in the electromagnetic spectrum that are used for radio communications. A band of frequencies between 10 kilohertz and 100 gigahertz.

RANDOM WINDING—A winding in rotating equipment wherein wires do not lie in an even pattern.

REA (RURAL ELECTRIFICATION ADMINISTRATION)—A federally supported program to provide electrical service to rural areas. See RUS.

REACH (REGISTRATION, EVALUATION AND AUTHORIZATION OF CHEMICALS)—A European community regulation on the safe use of chemicals. Companies selling into the European market are required to provide compliance information to their downstream users. Compliance requires the investigation of the supply chain for the presence of certain chemicals called SVHCs (substances of very high concern). REACH began in 2008. Chemicals will be added for a period of several years.

REACTANCE—The opposition to an alternating electron flow by a capacitance or inductance. The amount of such opposition varies with the frequency of the current. The reactance of a capacitor decreases with an increase in frequency; the opposite occurs with an inductance.

RECOVERED DIAMETER—Diameter of shrinkable products after heating has caused it to return to its extruded diameter.

RED PLAGUE—A powdery, brown-red growth sometimes found on silver-coated copper conductors and shield braids.

REDRAW—The consecutive drawing of wire through a series of dies to reach a desired wire size.

REEL—A revolving flanged device made of plastic, wood or metal, used for winding flexible cable. Also called a spool.

REFERENCE EDGE—See INDEX EDGE.

REFERENCE JUNCTION—The junction of a thermocouple that is at a known reference temperature. Also known as the "cold" junction, it is usually located at the EMF measuring device.

REFLECTION—(1) The change in direction (or return) of waves or pulses striking a surface. For example, electromagnetic energy reflections can occur at an impedance mismatch in a transmission line, causing standing waves. (2) Change in direction of a light wave or ray in an optical fiber.

REFLECTION LOSS—The part of a signal that is lost to reflection of power at a line discontinuity.

REFLOW SOLDERING—The process of connecting two solder-coated conductive surfaces by remelting of the solder to cause fusion.

REFRACTION—The bending of light waves or rays as they go from one material to another due to the difference in velocities in the materials.

REINFORCED SHEATH—The outer covering of a cable that has a reinforcing material, usually a braided fiber, molded in place between layers.

RELIABILITY—The probability that a device will function without failure over a specified time period or amount of usage.

RESIN—A solid or semisolid organic substance, originally of plant origin but largely synthesized now. Resins are broadly classified as thermoplastic or thermoset according to whether they soften or harden with the application of heat.

RESISTANCE—In DC circuits, the opposition a material offers to current, measured in ohms. In AC circuits, resistance is the real component of impedance and may be higher than the value measured at DC.

RESISTIVE CONDUCTOR—A conductor with high electrical resistance.

RESISTIVITY—A material characteristic that opposes the flow of electrical energy through the material. It is affected by temper, temperature, contamination, alloying, etc. The unit of volume resistivity is the ohm-cm. The unit of surface resistivity is ohms/m^2.

RESISTOR—An electronic component designed to have a specific value of resistance.

RESISTOR COLOR CODE—A method of indicating resistance value and tolerance. The first color represents the first significant figure of the value. A second color represents the second significant figure and the third is the multiplier or the number of zeros that follow two significant figures. When there is a fourth color band, it indicates the tolerance.

RESONANCE—An AC circuit condition in which inductive and capacitive reactance interact to cause a minimum or maximum circuit impedance.

RETRACTILE CORD—A cord having a specially treated insulation or jacket so it will retract like a spring. Retractability may be added to all or part of a cord's length.

RETURN LOSS—A measure of the degree of impedance mismatch between two impedances. It is the ratio, expressed in decibels, of the amplitude of a reflected wave echo to the amplitude of the main wave at the junction of a transmission line and a terminating impedance.

RETURN WIRE—A ground wire or the negative wire in a direct-current circuit.

REW—A 600 volt Canadian wire type covered by CSA standards. Made with thermoset insulation.

RFI—Radio frequency interference. The disruption of radio signal reception caused by any source that generates radio waves at the same frequency and along the same path as the desired wave. Similar to EMI.

RF MODEM—Radio frequency modem. A device used to convert digital data signals to analog signals (and from analog to digital) then modulate/demodulate them to/from their assigned frequencies.

RG/U—"RG" (radio guide) is the military designation for coaxial cable and "U" stands for "general utility."

RHH—Rubber-insulated, heat-resistant wire, rated 90°C in dry and damp locations. A UL cable type.

RHW—Rubber-insulated building wire, heat and moisture-resistant, 75°C dry or wet. A UL cable type.

RHW-2—Rubber-insulated building wire, heat and moisture-resistant, 90°C dry or wet. A UL cable type.

RIBBON CABLE—A flat cable of individually insulated conductors lying parallel and held together by means of adhesive or an extruded polymer web.

Glossary

RIDGE MARKER—One or more ridges running laterally along the outer surface of a plastic insulated wire for purposes of identification.

RIGID COAXIAL CABLE—Nonflexible coaxial cable, usually a metal tube armored coaxial cable. Sometimes called "hardline."

RINGING OUT—Locating or identifying specific conductive paths by passing current through selected conductors.

RING TONGUE—A solderless terminal that connects wire to a stud.

RIP CORD—Two or more insulated conductors in a parallel configuration that may be separated to leave the insulation of each conductor intact.

RISE TIME—The time it takes the voltage to rise from 0.1 to 0.9 of its final value.

RIV—Radio influence voltage. The radio noise appearing on conductors of electric equipment or circuits.

rms—See ROOT MEAN SQUARE.

ROCKWELL HARDNESS—A measure of hardness determined by resistance to indention by a small diamond or steel ball under pressure.

RoHS—Restriction of Hazardous Substances. A European Union regulation (Directive 2002/95/EC), which became effective in 2006 that requires the elimination of six hazardous substances from electrical and electronic products sold in the EU including lead, cadmium, mercury, hexavalent chromium, PBB and PBDE.

ROMEX—A type of nonmetallic sheathed (Type NM) cable. A trademark of the Southwire Company.

ROOT MEAN SQUARE (rms)—The effective value of an alternating current or voltages.

ROPE CONCENTRIC—A group of stranded conductors assembled in a concentric manner.

ROPE-LAY CONDUCTOR—See CONCENTRIC-LAY CONDUCTOR.

ROPE STRAND—A conductor composed of a center group of twisted strands surrounded by layers of twisted strands.

ROPE UNILAY—A group of stranded conductors assembled in a unilay manner.

ROTATING CABLE—A coil of cable whose inner end is attached to a member that rotates in relation to a member to which the outer end of the cable is fastened.

ROUND CONDUCTOR FLAT CABLE—A cable made with parallel round conductors in the same plane.

ROUND WIRE SHIELDS—Shields constructed from bare, tinned or silver-plated copper wire that include braided, spiral and reverse spiral.

ROUTINE TESTS—Tests made on each high-voltage cable or upon a representative number of devices, or parts, during production for the purposes of quality control.

RS-232—An ANSI/TIA recommended standard (RS); a common standard for connecting data processing devices. RS-232 defines the electrical characteristics of the signals in the cable that connect DTE (data terminal equipment) with DCE (data communications equipment); it specifies a 25-pin connector (the DB-25 connector is almost universally used in RS-232 applications). It is similar to ITU-T V.24/V.28.

RS-232-C SERIAL I/O PORT—A standard connection interface for computer peripheral equipment.

RS-422—An ANSI/TIA standard for cable lengths that exceed the RS-232 50-foot limit. Although introduced as a companion standard with RS-449, RS-422 is most frequently implemented on unused pins of DB-25 (RS-232) connectors. Similar to ITU-T V.11.

RS-423—An ANSI/TIA standard for cable lengths that exceed the RS-232 50-foot limit. Although introduced as a companion standard with RS-422, RS-423 is not widely used. Similar to ITU-T V.10.

RTD—Resistance temperature sensing device. Converts temperature to an electrical signal.

RTS—Request-to-send. An RS-232 modem interface signal (sent from the DTE to the modem on pin 4) that indicates that the DTE has data to transmit.

RUBBER, ETHYLENE PROPYLENE (EPR)—A synthetic rubber insulation having excellent electrical properties.

RUBBER INSULATION—A general term used to describe wire insulations made of elastomers such as natural or synthetic rubbers, neoprene, CSPE, EPR, CPE and others.

RUS—Rural Utilities Service. A federal agency formerly known as the REA.

S

S—A UL cable type. Hard service flexible cord with thermoset insulation and jacket. Also see SO and SJ.

SAE—Society of Automotive Engineers. Automotive standards body.

S BAND—A band of frequencies between 1,550 and 5,200 megahertz.

SBR—A copolymer of styrene and butadiene. Also GRS or Buna-S.

SCHERING BRIDGE—See BRIDGE.

SDN—A small diameter multiconductor control cable with neoprene jacket and nylon sheath over polyethylene insulation.

SECONDARY INSULATION—A nonconductive material that protects the conductor against abrasion and provides a second barrier.

SEGMENTAL CONDUCTOR—A stranded conductor consisting of three or more stranded conducting elements, each element having approximately the shape of the sector of a circle, assembled to give a substantially circular cross section.

SELF-EXTINGUISHING—Characteristic of a material whose flame is extinguished after the igniting flame source is removed.

SEMICONDUCTOR—In wire industry terminology, a material possessing electrical conduction properties that fall somewhere between conductors and insulators. Usually made by adding carbon particles to an insulator and used to provide a graduated transition between conductor and insulation in high-voltage cable. Not the same as semiconductor materials, such as silicon, germanium, etc., used for making transistors and diodes.

SEMICONDUCTING JACKET—A jacket having a sufficiently low-electrical resistance so its outer surface can be kept at substantially ground potential.

SEMIRIGID CABLE—Generally refers to Type MI or Type ALS that can be bent or shaped into a required configuration from coils or reels.

Glossary

SEMIRIGID PVC—A hard semiflexible polyvinylchloride compound with low plasticizer content.

SEMISOLID—An insulation cross-section having a partially open space between the conductor and the insulation perimeter.

SENSITIVE CONDUCTOR—A conductor terminated to a circuit that is adversely affected by spurious signals.

SEPARABLE INSULATED CONNECTOR—An insulated device to facilitate cable connections and separations.

SEPARATOR—Pertaining to wire and cable, a layer of insulating material such as textile, paper, Mylar, etc., which is placed between a conductor and its dielectric, between a cable jacket and the components it covers, or between various components of a multiple-conductor cable. It can be used to improve stripping qualities and/or flexibility, or can offer additional mechanical or electrical protection to the components it separates.

SE-R—Style R residential service entrance cable.

SERIAL INTERFACE—An interface that requires serial transmission, or the transfer of information in which the bits composing a character are sent sequentially. Implies only a single transmission channel.

SERIES CIRCUIT—A circuit in which the components are arranged end to end to form a single path for current.

SERVE—A filament or group of filaments such as fibers or wires, wound around a central core.

SERVED WIRE ARMOR—Spiral wrap of soft galvanized steel wires wrapped around a cable to afford mechanical protection and increase the cable-pulling tension characteristic.

SERVING—A wrapping applied over the core of a cable or over a wire.

SE—A UL cable type. Service entrance cable, 600 volts.

SEW, SEWF—A CSA cable type. Silicone rubber-insulated equipment wire.

SF—A CSA cable type. Silicone rubber insulated fixture wire, solid or seven-strand conductor, 200°C.

SFF—A CSA cable type. Same as SF, except flexible stranding 150°C.

SG—A CSA cable type. Same as SW except with ground wires.

SGO—A CSA cable type. Same as SWO except with ground wires.

SHD—Portable mine power cable, three or four individually shielded conductors, with grounding conductors, 5 kV through 25 kV.

SHEATH—The outer covering or jacket over the insulated conductors to provide mechanical protection for the conductors.

SHIELD—A sheet, screen or braid of metal, usually copper, aluminum or other conducting material placed around or between electric circuits or cables or their components, to contain any unwanted radiation, or to keep out any unwanted interference.

SHIELD COVERAGE—See SHIELD PERCENTAGE.

SHIELDED INSULATED SPLICE—An insulated splice in which a conducting material is employed over the full length of the insulation for electric stress control.

SHIELDED LINE—A transmission line whose elements confine radio waves to an essentially finite space inside a tubular conducting surface called the sheath, thus preventing the line from radiating radio waves.

SHIELD EFFECTIVENESS—The relative ability of a shield to screen out undesirable radiation. Frequently confused incorrectly with the term shield percentage, they are not the same.

SHIELDING, POWER CABLE—A conducting layer applied to increase safety, control dielectric stresses and prevent partial discharges.

SHIELD PERCENTAGE—The physical area of a circuit or cable actually covered by shielding material, expressed as a percentage.

SHORT—A low-resistance path that results in excessive current flow and often in damage.

SHOVEL CABLE—Normally an SHD-GC type that supplies high-voltage (2 kV to 25 kV) power to mobile equipment.

SHRINKING RATIO—The ratio between the expanded diameter and recovered diameter of shrinkable products.

SHRINK TEMPERATURE—The temperature that effects complete recovery of a heat shrinkable product from the expanded state.

SHRINK TUBING—Tubing that has been extruded, cross-linked and mechanically expanded, which when reheated or released will return to its original diameter.

SHUNT—A very low-resistance component used to divert a portion of the electric current.

SHUNT WIRE—A conductor joining two parts of an electric circuit to divert part of the current.

SI—An international system of standardized units of measurement.

SIC (SPECIFIC INDUCTIVE CAPACITANCE)—See DIELECTRIC CONSTANT.

SIGNAL—Any visible or audio indication that can convey information. Also, the information conveyed through a communications system.

SIGNAL CABLE—A cable designed to carry current of usually less than one ampere per conductor.

SIGNAL-TO-NOISE RATIO—A ratio of the amplitude in a desired signal to the amplitude of noise, usually expressed in dB.

SILICONE—A material made from silicon and oxygen. Can be in thermosetting elastomer or liquid form. The thermosetting elastomer form is noted for high heat resistance.

SINGLE CABLE—A one-cable system in broadband LANs in which a portion of the bandwidth is allocated for send signals and a portion for receive signals, with a guard band in between to provide isolation from interference.

SINGLE-MODE—Optical fiber in which only one mode of light can propagate.

SINTERING—Fusion of an extruded paste or a spirally applied tape wrap insulation or jacket by the use of high heat to a homogenous continuum. Usually employed for fluorocarbon, nonextrudable materials.

SIS—Switchboard wiring made with cross-linked polyethylene insulation.

SJ—A UL or CSA cable type. Junior hard service, rubber-insulated pendant or portable cord. Same construction as type S, but 300 V.

Glossary

SJO—Same as SJ, but with oil-resistant jacket.

SJOO—Same as SJO but with oil-resistant insulation as well as an oil-resistant jacket.

SJT—A UL or CSA cable type. Junior hard service thermoplastic or rubber insulated conductors with overall thermoplastic jacket. 300 V.

SJTO—Same as SJT but oil-resistant thermoplastic outer jacket.

SJTOO—Same as SJTO but with oil-resistant insulation.

SKIN EFFECT—The tendency of alternating current, as its frequency increases, to travel only on the surface of a conductor.

S METER—An instrument to measure signal strength.

S/N—See SIGNAL-TO-NOISE RATIO.

SNM—Shielded nonmetallic sheathed cable.

SO—A UL or CSA cable type. Hard service cord, same construction as type S except oil-resistant thermoset jacket, 600 V.

SOFT WIRE—Wire that has been drawn or rolled to final size and then heated (annealed) to remove the effects of cold working.

SOLEF—Solvay's trademark for its PVDF polymer.

SOLID CONDUCTOR—A conductor consisting of a single wire.

SOO—Same as SO but with oil-resistant insulation.

SOOW—A UL or CSA cable type. Portable cord and control cable. 600 V. Same as SOO but UL Listed or CSA Certified for outdoor use.

SOURCE COUPLING LOSS—Loss of light intensity as the light from a source passes into an optical fiber.

SPACER CABLE—A type of overhead power distribution cable. Spacing is accomplished by ceramic or plastic hangers suspended from a support messenger.

SPAN—In flat conductors, distance between the reference edge of the first and the last conductor. In round conductors, distance between centers of the first and last conductors.

SPC—Statistical process control.

SPECIFIC INDUCTIVE CAPACITY (SIC)—Dielectric constant of an insulating material.

SPIRAL SHIELD—A metallic shield of fine stranded wires applied spirally rather than braided.

SPIRAL STRIPE—A color coding stripe applied helically to the surface of an insulated wire or cable.

SPIRAL WRAP—The helical wrap of a tape or thread over a core.

SPLICE—A connection of two or more conductors or cables to provide good mechanical strength as well as good electrical conductivity.

SPLITTER—A passive device used in a cable system to divide the power of a single input into two or more outputs of lesser power. Can also be used as a combiner when two or more inputs are combined into a single output.

SP-1—A UL cable type. All thermoset, parallel-jacketed, two-conductor light duty cord for pendant or portable use in damp locations, 300 V.

SP-2—Same as SP-1, but heavier construction, with or without a third conductor for grounding purposes, 300 V.

SP-3—Same as SP-2, but heavier construction for refrigerators or room air conditioners, 300 V.

SPT—A UL type of thermoplastic-insulated, two- or three-conductor parallel cord. Frequently called "zip cord" or "lamp cord."

SQUIRREL CAGE MOTOR—An induction motor having the primary winding (usually the stator) connected to the power and a current is induced in the secondary cage winding (usually the rotor).

SR—Silicone rubber cable 600 V, 125°C.

SRG—A cable with ozone-resistant silicone rubber insulation with an overall jacket of braided glass yarn impregnated with flame-, heat- and moisture-resistant finish. 150/200°C 600 V appliance and motor lead wire.

SRGK—A cable with ozone-resistant silicone rubber insulation with braided glass yarn conductor jacket. Cable core of insulated conductors shielded or unshielded and an overall jacket of braided K-fiber impregnated with flame-, heat- and moisture-resistant finish. 150/200°C 600 V multiconductor cable.

SRK—A cable with ozone-resistant silicone rubber insulation with an overall jacket of braided K-fiber impregnated with flame-, heat- and moisture-resistant finish. 200°C 600 V fixture wire and power cable.

ST—A UL cable type. Hard service cord, jacketed, same as type S except thermoplastic construction. 600 V, 60°C to 105°C.

ST1—Smoke Test #1. An optional rating for UL Listed cable types that also pass the Limited Smoke requirements contained in UL Standards. A cable that meets the requirement can be marked "ST1."

STABILITY FACTOR—The difference between the percentage power factor at 80 volts/mil and at 40 volts/mil measured on wire immersed in water at 75°C for a specified time.

STANDARD—A set of rules or protocols that describe how a device should be manufactured so it will be reliable and interoperable (compatible) with others of the same type from different manufacturers.

STANDING WAVE—The stationary pattern of waves produced by two waves of the same frequency traveling in opposite directions on the same transmission line. The existence of voltage and current maximum and minimum along a transmission line is a result of reflected energy from an impedance mismatch.

STANDING WAVE RATIO (SWR)—In a transmission line, waveguide or analogous system, a figure of merit used to express the efficiency of the system in transmitting power.

STATIC CHARGE—An electrical charge that is bound to an object. An unmoving electrical charge.

STAY CORD—A component of a cable, usually a high-tensile textile, used to anchor the cable ends at their points of termination and to keep any pull on the cable from being transferred to the electrical connections.

STEP INDEX FIBER—A multimode optical fiber consisting of a core of uniform refractive index, surrounded by cladding of slightly lower refractive index.

Glossary

STIFFNESS—As applied to copper, the property of a conductor that causes it to resist permanent deformation by bending.

STO—A North American flexible cord type. Same as ST but with an oil-resistant thermoplastic outer jacket, 600 V, 60°C.

STOO—Same as STO but with oil-resistant insulation.

STOOW—Same as STOO but suitable for use in wet locations.

STOP JOINT—A splice that is designed to prevent any transfer of dielectric fluid between the cables being joined.

STP—Shielded twisted pair. Two wires, wound around each other to help cancel out any induced noise in balanced circuits. Multiple pairs of wires are contained in one sheath and each wire pair is shielded.

STRAIGHT JOINT—A cable splice used for connecting two lengths of cable, each of which consists of one or more conductors.

STRAIN GAUGE—A device for determining the amount of strain (change in dimension) when a stress is applied.

STRAIN HARDENING—An increase in hardness and strength caused by plastic deformation at temperatures lower than the recrystallization range.

STRAND—One of the wires of any stranded conductor.

STRANDED CONDUCTOR—A conductor composed of a group of wires, usually twisted, or of any combination of such groups of wires.

STRAND LAY—The distance of advance of one strand of a spirally stranded conductor, in one turn, measured longitudinally. Also referred to as lay length.

STRESS-RELIEF CABLE—Cable used to relieve stresses in the process of welding pipe joints by inducing heat in pipe sections to be welded, flexible copper strand.

STRESS-RELIEF CONE (TERMINATION)—A device used to relieve the electrical stress at a shielded cable termination; generally used above 2,400 volts.

STRIP—To remove insulation from a wire or cable.

STRUCTURAL RETURN LOSS—Backward reflected energies from uneven parts of the cable structure.

SUBSTRATE—Insulating material layer on a printed wiring board.

SUGGESTED WORKING VOLTAGE—AC voltage that can be applied between adjacent conductors.

SUPERCONDUCTORS—Materials whose resistance and magnetic permeability are virtually zero at very low temperatures.

SUPPRESSOR—A device used to reduce or eliminate unwanted voltages in electric or electronic circuits. For example, a resistance conductor in, or a resistor in series with, a spark plug cable to suppress interference that would otherwise affect radio reception in and near the vehicle.

SURFACE RESISTIVITY—The resistance of a material between two opposite sides of a unit square of its surface. It is usually expressed in ohms.

SURGE—A temporary and relatively large increase in the voltage or current in an electric circuit or cable. Also called transient. Commonly caused by environmental conditions (lightning) or sudden load changes. Protective devices are employed to prevent damage from surges.

SV—A North American cable type. Vacuum cleaner cord, two or three conductor, rubber insulated. Overall rubber jacket. For light duty in damp locations, 300 V 60°C.

SVO—A North American cable type. Same as SV except oil-resistant thermoset jacket, 300 V 60°C or 90°C.

SVT—A North American cable type. Same as SV except thermoplastic jacket. 300 V, 60°C or 90°C.

SVTO—A North American cable type. Same as SVT, except with oil-resistant thermoplastic jacket, 60°C.

SW—A CSA cable type. Rubber jacketed power supply cable (8 AWG to 2 AWG) 600 V.

SWR—Standing wave ratio. The ratio of incoming to reflected energy in a cable system. See also VSWR.

SWEEP TEST—A test to check attenuation at a range of frequencies.

T

TAKE-UP—The process of accumulating wire or cable onto a reel, bobbin or some other type of pack. Also, the device for pulling wire or cable through a piece of equipment or machine.

TANK TEST—A dielectric strength test in which the test sample is submerged in water and voltage is applied between the conductor and the water acting as ground.

TAP—(1) Baseband. The component of a connector that attaches a transceiver to a cable. (2) Broadband. Also called a directional tap or multitap. A passive device used to remove a portion of the signal power from the distribution line and deliver it onto the drop line.

TAPED INSULATION—Insulation of helically wound tapes applied over a conductor or over an assembled group of insulated conductors.

TAPED SPLICE—A joint with hand-applied tape insulation.

TAPE WRAP—A spirally applied tape over an insulated or uninsulated wire.

TC—A UL cable type. See Tray Cable, NEC Article 336.

TCLP—Toxicity characteristic leaching procedure. A test created by the EPA to determine whether an item can be safely discarded in an ordinary (nonhazardous) landfill.

T CONNECTOR—A cable adapter that attaches a PC with a network interface module to the network.

TEAR STRENGTH—The force required to initiate or continue a tear in a material under specified conditions.

TEFLON—Trademark of the DuPont Co. for FEP, PTFE and PFA polymers.

TEMPERATURE RATING—The maximum temperature at which an insulating material may be used in continuous operation without loss of its basic properties.

TENSILE STRENGTH—The maximum load per unit of original cross-sectional area that a conductor attains when tested in tension to rupture.

TERMINALS—Metal wire termination devices designed to handle one or more conductors, and to be attached to a board, bus or block with mechanical fasteners.

Glossary

TERMINATOR—A resistive device used to terminate the end of cable or an unused tap into its characteristic impedance. The terminator prevents interference-causing signal reflections.

TEST LEAD—A flexible, insulated lead wire used for making tests, connecting instruments to a circuit temporarily, or for making temporary electrical connections.

TEW—CSA appliance wire type. Solid or stranded single conductor, plastic insulated, 105°C, 600 V.

TEXTILE BRAID—Any braid made from threads of cotton, silk or synthetic fibers.

TF—A UL cable type. Fixture wire, thermoplastic-covered solid or seven strands, 60°C.

TFE—One of three types of Teflon. Also known as PTFE (polytetrafluoroethylene).

TFF—Same as TF but flexible stranding, 60°C.

TFFN—Same as TFF but with nylon outer jacket.

TFN—Same as TF but with nylon outer jacket.

TG—Flexible nickel or nickel-clad copper conductor, Teflon tape, glass braid, 200°C.

TGGT—PTFE Teflon tape insulation with an insulation covering of wrapped glass yarn and an overall sheath of braided glass yarn impregnated with a moisture, heat, flame and fraying resistant compound. 600 V, 250°C appliance wire.

TGS—Solid or flexible copper, nickel-clad iron or copper, or nickel conductor. Teflon tape, silicone glass braid, 600 V 250°C.

THERMAL AGING—Exposure to a thermal condition or programmed series of conditions for predescribed periods of time.

THERMOCOUPLE—A device consisting of two dissimilar metals in physical contact, which when heated will develop an EMF output.

THERMOCOUPLE ELEMENT—A thermocouple designed to be used as part of an assembly, but without associated parts such as terminal block, connecting head or protecting tube.

THERMOCOUPLE EXTENSION CABLE—A cable comprised of one or more twisted thermocouple extension wires under a common sheath.

THERMOCOUPLE EXTENSION WIRE—A pair of wires of dissimilar alloys having EMF temperature characteristics complementing the thermocouple with which it is intended to be used, such that when properly connected allows the EMF to be accurately transmitted to the reference junction.

THERMOCOUPLE LEAD WIRE—An insulated pair of wires used from the thermocouple to a junction box.

THERMOPLASTIC—A material that softens when heated and becomes firm on cooling.

THERMOSET—A material that has been hardened or set by the application of heat or radiation, and which, once set, cannot be resoftened by heating. The application of heat or radiation is called "curing."

THHN—A UL cable type. 600 V, 90°C nylon-jacketed building wire for use in dry and damp locations.

THREE-PHASE CURRENT—Current delivered through three wires, with each wire serving as a return for the other two.

THREE-PHASE THREE-WIRE SYSTEM—An alternating current supply system comprising three conductors over which three-phase power is sent.

THREE-QUARTER-HARD WIRE—As applied to aluminum, wire that has been processed to produce a strength approximately midway between that of half-hard wire and that of hard-drawn wire.

THREE-WIRE SYSTEM—A DC or single-phase AC system comprising three conductors, one of which is maintained at a potential midway between the potential of the other two.

THW—A UL cable type. Thermoplastic vinyl-insulated building wire. Flame-retardant, moisture and heat resistant. 75°C rated in dry and wet locations.

THW-2—A UL cable type. Thermoplastic vinyl-insulated building wire. Flame-retardant, moisture and heat resistant. 90°C rated in dry and wet locations.

THWN—A UL cable type. Same as THW but with nylon jacket overall. Rated 75°C in wet and dry locations.

THWN-2—A UL cable type. Same as THW but with nylon jacket overall. Rated 90°C in wet and dry locations.

TIA—Telecommunications Industries Association.

TINNED WIRE—See COATED WIRE, OVERCOAT CONDUCTOR and TOPCOATED.

TIN OVERCOAT (TOC)—Tinned copper wire, stranded, then coated with tin.

TINSEL WIRE—A low-voltage stranded wire, with each strand a very thin conductor ribbon spirally wrapped around a textile yarn.

TKGT—PTFE Teflon tape insulation with an insulating covering of felted K-fiber yarn and an overall sheath of braided glass yarn impregnated with a moisture-, heat-, flame- and fraying-resistant compound. 250°C 600 V apparatus and motor lead wire.

TL-9000—A quality system for the telecommunications industry based on ISO 9000.

TNC—A threaded connector for miniature coax; TNC is said to be an abbreviation for threaded-Neill-Concelman. Contrast with BNC, a similar nonthreaded bayonet connector.

TOPCOATED—Bare (untinned) copper wire, stranded then coated with pure tin.

TPE—Thermoplastic elastomer.

TRACER—A means of identifying an individual conductor (e.g., for polarity, etc.).

TRANSCEIVER—A device required in baseband networks which takes the digital signal from a computer or terminal and imposes it on the baseband medium.

TRANSCEIVER CABLE—Cable connecting the transceiver to the network interface controller allowing nodes to be placed away from the baseband medium.

TRANSFER IMPEDANCE TEST—A laboratory test that measures the effectiveness of a cable shield to keep EMI in (or out) of the cable. Usually conducted per NEMA WC61. Sometimes also referred to as a "surface transfer impedance" test.

TRANSITION SPLICE—A cable splice that connects two different types of cable.

TRANSMISSION—The dispatching of a signal, message, or other form of intelligence by wire, radio, telegraphy, telephony, facsimile, or other means.

TRANSMISSION CABLE—Two or more transmission lines. See TRANSMISSION LINE.

TRANSMISSION LINE—A signal-carrying circuit with controlled electrical characteristics used to transmit high-frequency or narrow-pulse signals.

Glossary

TRANSMISSION LOSS—The decrease or loss in power during transmission of energy from one point to another. Usually expressed in decibels.

TRANSPOSITION—Interchanging the relative positions of wires to neutralize the effects of induction to or from other circuits or to minimize interference pickup by the lead-in during reception.

TRAY—A cable tray system is an assembly of units or sections and ancillary fittings, made of noncombustible materials used to support cables. Cable tray systems include ladders, troughs, channels, solid bottom trays and similar structures.

TRAY CABLE—A factory-assembled multiconductor or multipair control cable approved under the National Electrical Code for installation in trays.

TREEING—Microscopic tree-like channels in medium-voltage cable insulation that can lead to cable failure.

TRIAXIAL—A three-conductor cable with one conductor in the center, a second circular conductor concentric with and insulated from the first, and a third circular conductor insulated from and concentric with the second, and an impervious sheath overall.

TRIBOELECTRIC NOISE—Noise generated in a shielded cable due to variations in capacitance between shielding and conductor as the cable is flexed.

TROLLEY WIRE—A round or shaped solid, bare, hard conductor ordinarily used to supply current to motors through traveling current collectors.

TRUNK CABLE—A main cable used for distribution of signals over long distances throughout a cable system.

TRUE CONCENTRIC—A cable conductor in which each successive strand layer has a reversed direction of lay from the preceding layer.

TR-XLP—Tree retardant cross-linked polyethylene.

TUBING—A tube of extruded unsupported plastic material.

TURNKEY SYSTEM—Refers to any system that is completely assembled and tested by one party for another that only requires the purchaser to turn the key on to be fully operational.

TV CAMERA CABLE—Multiconductor (often composite) cable to carry power for camera, lights, maneuvering motors, intercom signals to operators, video, etc. Usually heavy-duty jacketed.

TW—A UL wire type. Thermoplastic vinyl-jacketed building wire, moisture resistant and rated 60°C.

TWINAXIAL CABLE—A shielded coaxial cable with two central insulated conductors.

TWIN COAXIAL—A coaxial cable configuration containing two separate, complete coaxial cables laid parallel or twisted around each other in one unit.

TWIN-LEAD—A transmission line having two parallel conductors separated by insulating material. Line impedance is determined by the diameter and spacing of the conductors.

TWINNER—A device for twisting together two conductors.

TWINNING—Synonymous with pairing.

TWISTED PAIR—A pair of insulated copper conductors that are twisted around each other, mainly to cancel the effects of electrical noise; typical of telephone and LAN wiring.

U

U-BEND TEST—A cable test in which the insulation is tested for resistance to corona and ozone.

UF—A UL Underground Feeder cable type. Thermoplastic underground feeder or branch circuit cable.

UHF—Ultrahigh frequency, the band extending from 300 to 3,000 MHz as designated by the Federal Communications Commission.

UL—Underwriters Laboratories, Inc. A U.S. independent testing laboratory that also publishes standards for most products in the NEC.

UL LISTED—A product that has been tested and found to comply with applicable standards. Listing also involves regular follow-up to ensure continued compliance.

UL STYLE—A subset of UL Type AWM (appliance wiring material) consisting of thousands of different styles. Many UL styles are single-conductor hook-up wire. A unique four or five digit number, e.g., UL 1015, identifies each style. Styles identify an additional subset of features from the referenced standards in order to allow customers to quickly identify the type of wire needed.

ULTRASONIC CLEANING—Immersion cleaning aided by ultrasonic waves that cause microagitation.

ULTRASONIC DETECTOR—A device that detects ultrasonic noise such as that produced by corona or leaking gas.

ULTRAVIOLET—Radiant energy within the wavelength range 10 to 380 nanometers. It is invisible and can be filtered out by glass.

UNBALANCED LINE—A transmission line in which voltages on the two conductors are unequal with respect to ground (e.g., coaxial cable).

UNBALANCED-TO-GROUND—Describing a two-wire circuit, where the impedance-to-ground on one wire is measurably different from that on the other, compare with BALANCED LINE.

UNIDIRECTIONAL CONDUCTOR—See CONCENTRIC-LAY CONDUCTOR.

UNIDIRECTIONAL STRANDING—A term denoting that in a stranded conductor all layers have the same direction of lay.

UNILAY—More than one layer of helically-laid wires with the direction of lay and length of lay the same for all layers. See CONCENTRIC-LAY CONDUCTOR.

USE—A UL cable type. Underground service entrance cable, XLP or rubber-insulated, CSPE or XLP jacketed.

UTP—Unshielded twisted pair. Two wires, usually twisted around each other to help cancel out induced noise in adjacent circuits. An unshielded twisted-pair cable usually contains four pairs in a single cable jacket.

Glossary

V

V—Volts. The SI unit of electrical potential difference. One volt is the difference in potential between two points of a conducting wire carrying a constant current of one ampere when the power dissipated between these two points is equal to one watt. It represents the energy available per unit charge within an electrical system (joules /coulombs).

VA—Volt-ampere. A designation of power in terms of volts and amperes. See APPARENT POWER.

VAR—A unit of reactive power that means volt-amperes, reactive.

VAR METER—An instrument used by power companies to measure the kVAR consumption. Utilities charge more for loads that consume large amount of reactive power.

V BAND—A band of frequencies between 46 and 56 gigahertz.

VC—Varnished-cambric insulation.

VCSEL—Vertical-cavity surface-emitting laser is a type of semiconductor laser diode operating in the 850-nm wavelength window that is commonly used in Ethernet-based networks.

VDE—Association of German Electrical Engineers.

VELOCITY OF PROPAGATION—The transmission speed of an electrical signal down a length of cable compared to its speed in free space. Usually expressed as a percentage.

VFD CABLE—Variable frequency drive cable. A power cable specially designed for use with VFDs. Usually has three-phase conductors, three symmetrically positioned grounding conductors and an overall RF shield. Also called adjustable speed drive (ASD) cable.

VG—Varnished-glass or nylon braid, 600 V or 3,000 V, 130°C.

VHF—Very high frequency. The band extending from 30 to 300 MHz as designated by the Federal Communications Commission.

VIDEO PAIR CABLE—A transmission cable containing low-loss pairs with an impedance of 125 ohms. Used for TV pickups, closed-circuit TV, telephone carrier circuits, etc.

VISCOSITY—Internal friction or resistance to flow of a liquid: the constant ratio of shearing stress to rate of shear.

VLF—Very low frequencies. The band extending from 10 to 30 kHz, as designated by the Federal Communications Commission.

VOICE FREQUENCY (VF)—Describes an analog signal within the range of transmitted speech, typically supported by an analog telecommunications circuit.

VOLT—A unit of electrical "pressure." One volt is the amount of electrical potential that will cause one ampere of current to flow through one ohm of resistance. Volt is a SI unit, the base units are joules (energy) per coulomb (charge) (J/C).

VOLTAGE—Electrical potential or electromotive force expressed in volts.

VOLTAGE BREAKDOWN—A test to determine the maximum voltage insulated wire can withstand before failure.

VOLTAGE, CORONA EXTINCTION—The minimum voltage that sustains corona (partial discharge), determined by applying a corona producing voltage, then decreasing the voltage until corona is extinct.

VOLTAGE DIVIDER—A network consisting of impedance elements connected in series to which a voltage is applied and from which one or more voltages can be obtained across any portion of the network.

VOLTAGE DROP—The voltage developed across a conductor by the current and the resistance or impedance of the conductor. Also refers to the voltage used in a system to overcome the wiring resistance. Long runs of cable sized closely to the operating ampacity can suffer significant voltage drop that affects the load. Less than 5 percent is recommended by the NEC, around or less than 2 percent is ideal. Using larger conductor (less resistance) if possible will solve voltage drop problems.

VOLTAGE, INDUCED—A voltage produced in a conductor by a change in magnetic flux from an outside source.

VOLTAGE RATING—The highest voltage that may be continuously applied to a wire or cable in conformance with standards or specifications.

VOLTAGE STANDING WAVE RATIO (VSWR)—The ratio of the maximum effective voltage to the minimum effective voltage measured along the length of a mismatched radio frequency transmission line.

VOLTAGE TO GROUND—The voltage between an energized conductor and earth.

VOLUME RESISTIVITY—The resistance in ohms of a body of unit length and unit cross-sectional area.

VSWR—See VOLTAGE STANDING WAVE RATIO.

VULCANIZATION—A chemical reaction in which the physical properties of a polymer are changed by reacting it with cross-linking agents.

VW-1—Vertical wire flame test. Formerly designated as FR1. A UL fire rating for single conductor cables. The test is described in UL Standard 1581.

W

W—(1) Symbol for watt or wattage. (2) A UL cable type. Heavy-duty portable power cable, one to six conductors. 600 V, without grounds.

WALL THICKNESS—The thickness of a applied insulation or jacket. Generally wall thickness increases for higher voltages.

WATER ABSORPTION—A test to determine the amount of water absorbed by a material after a given immersion period.

WATER-BLOCKED CABLE—A multiconductor cable having interstices filled with a water-blocking compound to prevent water flow or wicking.

WATER-COOLED LEADS—Furnace cables. High-energy cables. Usually welding cable strands cabled with a hose core for carrying coolant used in heavy-duty welding equipment, electric furnace applications, plating and various chemical processes.

WATER TREEING—A type of insulation deterioration that can occur after long-term immersion in water with an electrical stress applied.

Glossary

WATERFALL—The point at which cables installed horizontally in a tray transition to a vertical section of tray.

WATT—A unit of electrical power (energy consumed per unit time). One watt is equivalent to the power represented by one ampere of current under a pressure of one volt in a DC circuit.

WAVEFORM—A graphical representation of a varying quantity. Usually, time is represented on the horizontal axis and the current or voltage value is represented on the vertical axis.

WAVE FRONT—(1) That portion of an impulse (in time or distance) between the 10 percent point and the point at which the impulse reaches 90 percent of crest value. (2) The rising part of an impulse wave.

WAVELENGTH—The distance between the nodes of a wave. The ratio of the velocity of the wave to the frequency of the wave.

WAVESHAPE REPRESENTATION—The designation of current or voltage by a combination of two numbers. For other than rectangular impulses: (a) virtual duration of the wave front in microseconds; and (b) time in microseconds from virtual zero to the instant at which one-half of the crest value is reached on the tail. For rectangular impulses: (a) minimum value of current or voltage; and (b) duration in microseconds.

WEEE—Waste Electrical and Electronic Equipment. A European Union regulation (Directive 2002/96/EC) which holds the manufacturer responsible for proper recycling or disposal when it reaches end-of-life. See also RoHS and REACH.

WEIGHT RESISTIVITY—The resistance in ohms at a specified temperature of a copper wire of uniform cross section and of unit weight and unit length.

WELDING—Joining the ends of two wires, rods or groups of wires: (a) by fusing, using the application of heat or pressure or both, by means of a flame torch, electric arc, or electric current; or (b) by cold pressure.

WHEATSTONE BRIDGE—A device used to measure DC resistance. See BRIDGE.

WICKING—The longitudinal flow of a liquid in a wire or cable due to capillary action.

WIRE—A rod or filament of drawn or rolled metal whose length is great in comparison with the major axis of its cross section.

WIRE BRAID—Flexible wire constructed of small size strands in tubular form. Used for shielding or connections where constant flexing is required.

WIRE GAUGE (AWG)—The American Wire Gauge, originally called Brown & Sharpe Gauge. A system of numerical wire sizes starting with the lowest numbers for the largest sizes. Gauge sizes are each 20.6 percent apart based on the cross-sectional area.

WIRE NUT—A closed-end splice that is screwed on instead of crimped.

WIRE-WRAPPED CONNECTION—A solderless connection made by wrapping bare wire around a square or rectangular terminal with a power or hand tool.

WIRE WRAPPING TOOLS—Portable electric tools and automatic stationary machines used to make solderless wrapped connections of wires to terminals.

WITHSTAND TEST VOLTAGE—The voltage that the device must withstand without flashover, disruptive discharge, puncture or other electric failure when voltage is applied under specified conditions.

WP—Weatherproof construction for overhead wires.

WORKSTATION—(1) Input/output equipment at which an operator works; (2) A station at which a user can send data to, or receive data from, a computer or other workstation for the purpose of performing a job.

WRAPPER—An insulating barrier applied as a sheet of tape wrapped around a coil periphery.

X

X—Symbol for reactance.

X BAND—A band of frequencies between 5,200 and 10,000 megahertz.

XHHW—A UL cable type. Cross-linked polyethylene insulated small diameter building wire rated 75°C wet and 90°C dry.

XHHW-2—A UL cable type. Cross-linked polyethylene insulated small diameter building wire rated 90°C wet and dry.

XLP—Cross-linked polyethylene. Also written XLPE.

Y

YIELD STRENGTH—The point at which a substance changes from elastic to viscous.

Z

Z—Symbol for impedance.

ZERO SEQUENCE IMPEDANCE—The electrical impedance of a three-phase power cable under fault (short-circuit) conditions. It is typically 2.5 to 3 times the positive sequence impedance.

ZETABON—Dow's trade name for an acrylic acid copolymer coated aluminum tape.

ZIPPER TUBING—Alpha's trade name for harnessing/jacketing material containing a zipper-track type closure. The zipper arrangement allows installation with no need to disconnect installed wire. See LOC-TRAC.

ZYTEL—DuPont's trademark for nylon resins.

Trademarks

3M is a registered trademark of 3M Corporation

A

Adalet is a registered trademark of Adalet/Scott Fetzer Company
Airbag is a registered trademark of Prysmian
AirGuard is a registered trademark of Prysmian
ALPHA FIT is a registered mark of Alpha Wire Corporation
ALPHA is a registered trademark of Belden
ALPHA QWIK-REEL is a registered trademark of Belden
Alpha Wire is a registered trademark of Alpha Wire Corporation
ALPHA WIRE CABLE DESIGN Center is a registered mark of Alpha Wire Corporation
ALTOS is a registered trademark of Corning Cable Systems Brands, Inc.
Anaconda is a registered mark of General Cable Technologies Corporation
Andrew Solutions is a trademark of CommScope
Anixter is a registered trademark of Anixter Inc.
AQUASEAL is a registered trademark of West Penn Wire

B

B-Line is a trademark of Cooper Industries
BANANA PEEL is a registered trademark of Belden
BCWK is a registered trademark of Belden
BELCLAD is a registered trademark of Belden
BELCOIL is a registered trademark of Belden
BELDEN CDT is a registered trademark of Belden
BELDEN CERTIFIED ASSEMBLER is a registered trademark of Belden
BELDEN INFINITY is a registered trademark of Belden
BELDEN is a registered trademark of Belden
BELDEN@HOME is a registered trademark of Belden
BELDENCABLE is a registered trademark of Belden
BELDFOIL is a registered trademark of Belden
BELDPAK is a registered trademark of Belden
BELDSOL is a registered trademark of Belden
BELFIT is a registered trademark of Belden
BELFLEX is a registered trademark of Belden
BELOPTIX is a registered trademark of Belden
BITLITE is a registered trademark of Belden
BLUE HOSE is a registered trademark of Belden
BRILLIANCE is a registered trademark of Belden
BRILLIANCE VIDEOFLEX is a registered trademark of Belden
BRILLIANCE VIDEOTWIST is a registered trademark of Belden
Burndy is a registered trademark of Burndy Corporation
BWC is a registered trademark of Belden

C

CABLE WITH CONFIDENCE is a registered trademark of Belden
CableCaster is a trademark of Greenlee
Cable-Gel is a registered trademark of Greenlee
Cablofil is a trademark of Cablofil Inc.
CADDY is a registered mark of ERICO International Corporation
CADDY CABLECAT is a registered mark of ERICO International Corporation
Carol Brand is a registered trademark of
General Cable Technologies Corporation
CATSNAKE CONFIDENCE is a registered trademark of Belden
Cent-R-Rail is a registered trademark of Cooper Industries
Coleman Cable, Inc. is a registered trademark of Coleman, Cable Inc.
CommScope is a registered trademark of CommScope
CONFORMABLE is a registered trademark of Belden
CONTOUR CRIMP is a registered trademark of PANDUIT
CONTOUR-TY a registered trademark of PANDUIT Corporation
CONTROLBUS is a registered trademark of Belden
CONTROLLED SHRINKAGE is a registered trademark of Belden
ControlNet is a registered trademark of ControlNet International
Copperfield is a registered trademark of Coleman Cable, Inc.
Cordaflex is a registered trademark of Prysmian
COREGUARD is a registered trademark of Belden
Corning Gilbert is a trademark of Corning Cable Systems Brands, Inc.
CSA symbol is a trademark of Canadian Standards Association
CRIMPMASTER is a trademark of IDEAL Industries, Inc.
Crimpit is a registered trademark of Burndy Corporation
Cross-Linked Tefzel is a registered mark of
E.I. du Pont de Nemours and Company
Crouse-Hinds is a registered trademark of Cooper Industries, Inc.
CUSTOMER-CENTRIC DESIGN is a registered trademark of Belden

D

DATABRITE is a registered trademark of Belden
DATABUS is a registered trademark of Belden
DATALENE is a registered trademark of Belden
DATATRAY is a registered trademark of Belden
DATATUFF is a registered trademark of Belden
DATATWIST is a registered trademark of Belden
DEVICEBUS is a registered trademark of Belden
DATANET is a registered trademark of Belden
DIGITRUCK is a registered trademark of Belden
DISTRIBUTOR DESK is a registered trademark of Belden
DOME-TOP is a registered trademark of PANDUIT Corporation
DUOBOND is a registered trademark of Belden
DUOBOND PLUS is a registered trademark of Belden
DUOFOIL is a registered trademark of Belden
DuraFlex is a registered mark of Radix
DURIUM is a registered trademark of Burndy Corporation

Trademarks

E

EASY-MARK is a registered trademark of PANDUIT Corporation
EZ-Path is a trademark of Specified Technologies, Inc.

F

FAS (Fast Assembling System) is a trademark of Cablofil Inc.
FASLOCK is a trademark of Cablofil Inc.
FASROLLER is a trademark of Cablofil Inc.
FASTRUT is a trademark of Cablofil Inc.
Fish Stix is a registered trademark of Greenlee
FIT is a registered trademark of Belden
FIT SHRINKABLE TUBING WITH CENTER is a registered trademark of Belden
FJ is a registered trademark of PANDUIT Corporation
FLAMARREST is a registered trademark of Belden
FLEXNAKE is a registered trademark of Belden

G

GAR-BU is a registered trademark of Burndy Corporation
General Cable is a registered trademark of
General Cable Technologies Corporation
GOT TUBING? is a registered trademark of Belden

H

Halar is a registered Trademark of Solvay S.A.
HALOARREST is a registered trademark of Belden
HellermanTyton is a registered trademark of HellermanTyton
Hoffman is a registered trademark of Pentair Technical Products
HOMECHOICE is a registered trademark of Belden
HYLUG is a registered trademark of Burndy Corporation
Hypalon is a registered mark of E.I. du Pont de Nemours and Company
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HYREDUCER is a registered trademark of Burndy Corporation
HYTOOL is a registered trademark of Burndy Corporation

I

ICM Corp. is a registered trademark of ICM Corporation.
IDEAL is a registered trademark of IDEAL Industries, Inc.
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INDUSTRIALTUFF is a registered trademark of Belden
INSTALLABLE PERFORMANCE is a registered trademark of Belden
INTEGRITY is a registered trademark of Belden
InterBus-S is a registered trademark of Phoenix Contact

K

KA-LUG is a registered trademark of Burndy Corporation
Kapton is a registered trademark of E.I. du Pont de Nemours and Company
Kevlar is a registered trademark of E.I. du Pont de Nemours and Company
KINGS is a registered trademark of Kings Electronics
KS24194 is a registered trademark of Tyco

L

LANLITE is a registered trademark of Belden
LANscape is a registered trademark of Corning Cable Systems Brands, Inc.
LAY-In QIKLUG is a registered trademark of Burndy Corporation
LCF is a registered trademark of Belden
LMR is a registered mark of Times Microwave Systems
LOC-TRAC is a registered trademark of Belden
LST is a trademark of Corning Cable Systems Brands, Inc.
LSZH is a trademark of Corning Cable Systems Brands, Inc.

M

MASS-TER is a registered trademark of Belden
MEDIATWIST is a registered trademark of Belden
METAL SPOOL is a registered trademark of Belden
MTP is a trademark of US Conec, Ltd.
Mustang is a registered trademark of American Insulated Wire
Mylar is a registered trademark of E.I. du Pont de Nemours and Company

N

NANOSKEW is a registered trademark of Belden
NEC is a trademark of the National Fire Protection Association
Neutrik is a registered trademark of Neutrik
NEW GENERATION is a registered trademark of Belden
Nexans is a registered trademark of Nexans

P

PAN-LUG is a registered trademark of PANDUIT Corporation
PAN-STEEL is a registered trademark of PANDUIT Corporation
PAN-TERM is a registered trademark of PANDUIT Corporation
PAN-TY is a registered trademark of PANDUIT Corporation
PANDUIT is a registered trademark of PANDUIT Corporation
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PENETROX is a registered trademark of Burndy Corporation
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PERFORMANCE DELIVERS THE FUTURE is a registered trademark of Belden
Planoflex is a registered trademark of Prysmian
Polyvinylidene Fluoride / Kynar is a registered mark of Arkema
Pretium is a registered trademark of Corning Cable Systems Brands, Inc.
Pro-Duct is a registered trademark of HellermanTyton
Prysmian Cables & Systems is a trademark of Prysmian

Trademarks

Q

Qwik-Bolt is a registered trademark of Cooper Industries
QUICKLUG is a registered trademark of Burndy Corporation

R

Redi-Rail is a registered trademark of Cooper Industries
Radix Wire Company is a registered trademark of The Radix Wire Company
Remke Industries is a registered trademark of Remke, Inc.

S

Safe-T-Edge is a registered trademark of Cablofil Inc.
SAFE-T-LINE is a registered trademark of Belden
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Scotch is a registered trademark of 3M Corporation
SDN is a registered trademark of Southwire Company
SERVIT is a registered mark of Burndy Corporation
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Southwire is a registered trademark of Southwire Company
SpecSeal Ready Sleeve is a registered trademark of Specified Technologies, Inc.
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Spreaderflex is a registered trademark of Prysmian
Square D/Seriplex is a registered trademark of Square D/Schneider AEG
Staple-Lok is a registered trademark of Cooper B-Line
STAR TECK EXTREME is a registered trademark of Thomas and Betts
STI is a registered trademark of Specified Technologies, Inc.
SUPRA-SHIELD is a registered trademark of Belden

T

TAK-TAPE is a registered trademark of PANDUIT Corporation
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TE Connectivity is a trademark of the TE Connectivity Ltd. Family of companies
TECK-STYLE is a registered trademark of Belden
Teflon is a registered trademark of E.I. du Pont de Nemours and Company
Tefzel is a registered trademark of E.I. du Pont de Nemours and Company
TelcoFlex is a registered trademark of Southwire Company
TelcoHyde is a registered trademark of Southwire Company
Times Microwave Systems is a trademark of Times Microwave Systems
THE AVAILABLE ALTERNATIVE is a registered trademark of Belden
THE CABLE WITHOUT A JACKET is a registered trademark of Belden
THE MOLE is a registered trademark of Burndy Corporation
THE WIRE IN WIRELESS is a registered trademark of Belden
THERE IS NO EQUAL is a registered trademark of Belden
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TOTALGUARD is a registered trademark of Belden
TRAYOPTIC is a registered trademark of Belden
TRI-LOC is a registered trademark of Kings Electronics
TRUAUDIO is a registered trademark of Belden
Tufflink is a registered trademark of Remke Industries

U

UL is a trademark of Underwriters Laboratory Association
UltraEase is a trademark of Corning Cable Systems Brands, Inc.
UltraRange is a trademark of Corning Cable Systems Brands, Inc.
UltraSeal is a trademark of Corning Cable Systems Brands, Inc.
UNI-DIE is a registered trademark of PANDUIT
UniCam is a registered trademark of Corning Cable Systems Brands, Inc.
Unishield is a registered mark of General Cable Technologies Corporation
UNI-STRAND is a registered trademark of Belden
UNITAP is a registered trademark of Burndy Corporation
UNREEL is a registered trademark of Belden

V

VARI-TWIST is a registered trademark of Belden

W

WATERDOG is a registered trademark of Belden

X

XL-DUR is a registered trademark of Belden
XTRA-GUARD is a registered mark of Alpha Wire Corporation

Z

Z-FOLD is a registered trademark of Belden