

Xtra-Guard® Flex Motor Supply Cable



Tough, high performance flexible cable for motor and drive applications

Now you can get the exceptional performance of Xtra-Guard for motor and drive applications with Alpha Wire's flexible motor supply cable. The symmetrical design of the cables results in a smaller diameter and easier routing of connectors to servomotors, AC drives, and variable-frequency drives (VFD). The combination of the conductor stranding and overall cable design make the product flexible and suitable for applications that require better flexibility. The cables are MTW-rated and meet the requirements of NFPA 79, allowing them to be used in industrial machinery applications. The cables use our Supra-Shield® combination of tinned copper braid and double layer of aluminum foil on polyester to offer exceptional EMI performance across the widest range of frequencies.

- 16-6 AWG (1.32-13.49 mm²) conductor size range
- Meet NFPA Standard 79 for industrial machinery
- Premium PVC jacket for outstanding sunlight and oil resistance
- Supra-Shield foil/braid for exceptional EMI protection
- Ideal for motor, drive, wind turbine, and light-duty VFD applications
- Products are available in bulk, cut to length
- Products with STOOV portable rating as well as brake or signal pairs available on request

Alpha Wire

US/International 1-800-52 ALPHA | Europe: +44 (0) 800 288 8809
www.alphawire.com | info@alphawire.com

Specifications

Materials

Conductors Stranded bare copper
Insulation PVC/Nylon
Shielding Tinned copper braid (70% coverage) over aluminum/polyester/aluminum foil
Jacket Premium PVC, black

Electrical

Voltage 600 volt (UL Type TC-ER, MTW)
 1000 volt (UL Type WTTC)

Physical & Mechanical

Temperature Range
 Flexing: -5°C to +90°C
 Static: -20°C to +90°C
Bend Radius 10x Cable Diameter

Approvals

UL Type TC-ER, MTW, WTTC
 CSA AWM I/II A/B, FT4
 Sunlight resistant
 Oil Res. I



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Part No.	Conductors	Wire Size		Stranding		Nominal Diameter		Jacket Thickness		Insulation Thickness	
		AWG	mm ²	AWG	mm	Inch	mm	Inch	mm	Inch	mm
5660	4	16	1.49	26/30	65 x 0.25	0.381	9.67	0.050	1.27	0.016	0.40
5661	4	14	1.85	41/30	41 x 0.25	0.418	10.61	0.050	1.27	0.016	0.40
5662	4	12	2.41	65/30	65 x 0.25	0.464	11.78	0.050	1.27	0.016	0.40
5663	4	10	2.94	105/30	105 x 0.25	0.579	14.70	0.063	1.60	0.022	0.55
5664	4	8	4.21	168/30	168 x 0.25	0.760	19.30	0.063	1.60	0.032	0.81
5665	4	6	5.33	266/30	266 x 0.25	0.901	22.88	0.083	2.10	0.032	0.81

Ultraviolet Light

Oil, Chemicals, Solvents, Fuels

Direct Burial

EMI Noise

Flexing

GLOBAL HEADQUARTERS
 711 Lidgerwood Avenue
 Elizabeth, NJ 07207-0711 USA
 Toll Free: 1-800-52 ALPHA
 Tel: 1-908-925-8000
 Fax: 1-908-925-5411
 E-mail: info@alphawire.com

EUROPE
 Alpha Wire International
 Sunbury Int'l Business Centre | Brooklands Close | Windmill Road
 Sunbury-on-Thames | Middlesex | United Kingdom | TW16 7DX
 Tel: +44 (0) 800 288 8809
 Fax: +44 (0) 800 288 8810
 E-mail: europe@alphawire.com

