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# Network Infrastructure

North America

**PANDUIT**<sup>®</sup> infrastructure for a connected world

# Welcome to the new 2021 Panduit Network Infrastructure Catalog















With a fresh look, this catalog was designed with our customers in mind – enabling you to more quickly find the Panduit products that meet your needs for Data Center, Enterprise, and Industrial Network environments. For online users, interactive links help you navigate through the catalog. Part number links take you directly to the part number page on [panduit.com](https://www.panduit.com) where you will find more detailed product specifications, drawings, and more.

Check out our Product Showcase section. In this section you'll see some of our recently launched products, engineered to meet today's most complex challenges.

Throughout the catalog you will see a **BEST SELLER** label on select parts. These are the most popular parts in our portfolio and the most often chosen by our customers.

Looking for a part not in this catalog? Visit [panduit.com](https://www.panduit.com) today to view our full line. Panduit continues our commitment to bring innovative, high quality, and industry-leading product to market to meet your most demanding physical infrastructure requirements.

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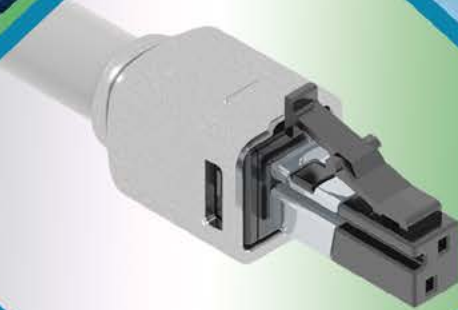
### Accelerate Deployment with a Flexible Data Center Cabinet Design

The FlexFusion™ Cabinet allows for custom configurations to meet your network needs. FlexFusion™ Cabinets are ideal for network or server equipment and provide maximum flexibility and the capacity to manage high cable density in data center, enterprise or colocation deployment. **G.2 – G.4**



### Category 6A Performance, Category 6 Size

The Vari-MaTriX™ HD Copper Cable's small diameter provides improved fill capacity up to 35% compared to a 0.285 inch diameter copper cable, simplifies network upgrades, and utilizes existing and new infrastructure. **B.2**



### Transforming Communications for Automation Devices

Single Pair Ethernet simplifies the design and deployment of Ethernet physical infrastructure for operational technology devices and applications. **B.9**

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## Save Space and Go Further with Active Optical Cable



Active Optical Cable (AOC) Assemblies run significantly further compared to DAC assemblies and because they use fiber, the diameter allows for higher density in pathways. **C.27**

## Smallest Diameter 24 AWG Patch Cord on the Market



The Next-Generation 24 AWG Patch Cord's flexible cable design helps to improve cable management in high density applications enabling easier installations throughout the network. **B.5**



## The Next Generation of LC Patch Cords



The Uniboot Push-Pull Fiber Patch Cord features a unique pull-boot that simplifies insertion/extraction. The unitary cable and low-profile form factor reduce the cable volume density to help optimize your space. **C.30**

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### Enable Higher Density and Higher Speeds



The CS Connector Cassettes and Patch Cords increase the HD Flex™ Platform port density from 144 fibers per RU with LC connectors to 216 fibers per RU with CS connectors, making it the perfect choice for high density. **C.12 – C.16**

### Protect Your Cable-to-Cable Fusion Splice Connections



The HD Fusion Wall Mount Splice Enclosure organizes, manages and protects cable-to-cable fusion splice connections. It accommodates large count fiber optic cables typically coming in from outside of the building transitioning to smaller count cables within the data center. **C.16**

### The Most Advanced Cabinet Access Control Solution in the Market



The SmartZone™ G5 Security Handle is specially designed to meet the most rigorous of security challenges (both digital and physical) in today's data center environment. **H.4**

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## TX6A™ Category 6A UTP FieldCord™ Connectors



The FieldCord™ Connectors combine a field-mateable splice, the industry's smallest diameter Category 6A UTP twisted pair 23 AWG cable, and an ultra-compact RJ45 plug to fit into the smallest port spaces and most confined cable routing paths. **B.9**

## Ensure Easy Termination in Your Network



The TX6A™ UTP and STP Field Term Plug's TG-style forward motion termination technology optimizes performance by maintaining cable pair geometry while eliminating conductor untwist. The field term plug is ideal for connecting an increasing number of network-powered devices requiring a plug connection to the network and where field attachment of the plug to cable is desired. **B.7**

## Robust 600 V Rated Construction for Superior Performance



The IndustrialNet™ Overmolded Cordsets ensure high performance and reliable connections under harsh environmental conditions. **D.3**

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### Best-In-Class Form and Function




The SmartZone™ G5 Intelligent PDU provides comprehensive, accurate monitoring of data center power, environment and security to increase uptime and save energy costs. The addition of 415 V PDUs allows for an increase in power capacity and energy savings. **H.2**

### A Versatile Enclosure for Frequently Changing Infrastructures



The Consolidation Point Box provides flexibility to reconfigure cable runs to meet frequently changing organizational requirements and reduces network downtime when these reconfigurations happen. **G.24**

### Low Profile, High Density Storage Solution that Makes a Difference



The PanZone® TrueEdge™ Enclosure optimizes space and eliminates data and power lag time by mounting servers in confined spaces. **G.24**





## Assemble Your Network Rack in Minutes

The Adjustable Depth 4 Post Rack combines the stability of a cabinet with the accessibility of an open rack to provide maximum flexibility when designing the network. **G.21 – G.22**



## Efficiently Manage High Performance Copper and Fiber Cable in Your Network

The PatchRunner™ 2 Horizontal Cable Manager provides a comprehensive architecture that regulates access to network equipment, efficiently organizes cables, and ensures continuous coherent performance. **G.19**



## Keep it Smart! Block Unauthorized Access to Your Network

SmartKeeper offers a unique blocking mechanism to prevent unauthorized access to open ports by adding a physical layer to the security system already in place. **B.17**

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### TX6A™ Category 6A Unshielded Copper Cable

- Panduit cables feature a small cable diameter; improves cable fill and simplifies upgrades from Category 6
- Lighter weight cables, smaller bend radius and increased flexibility ease installation
- Best-in-class alien crosstalk mitigation
- Vari-MaTriX cables offer the best EMI immunity in a UTP cable
- Exceptional performance for PoE++ applications - LP rated

B. Copper Systems

### Vari-MaTriX™ High Density (HD) Category 6A Copper Cable



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Part Number	Flame Rating	Performance Level	AXT Barrier Tape	Cable Diameter In.	LP Rating	Packaging	Color
PUP6AHD04BU-G	Plenum (CMP, FT-6)	Category 6A UTP Premium	Vari-MaTriX™ Cables	0.230	CMP-LP (0.7A)	Reel	Blue
PUR6AV04BU-G	Riser (CMR, FT-4)			0.260	CMR-LP (0.5A)		
PUP6XHD04BU-G	Plenum (CMP, FT-6)	Category 6A UTP Standard Compliant Plus	Continuous	0.230	CMP-LP (0.7A)		

F. Keystone Cabling Systems

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

### TX6A™ Category 6A Shielded Copper Cable



Part Number	Flame Rating	Performance Level	AXT Barrier Tape	Cable Diameter In.	LP Rating	Packaging	Color
PUFP6X04BU-UG	Plenum (CMP, FT-6)	Category 6A Shielded Premium	U/FTP	0.290	CMP-LP (0.5A)	Reel	Blue
PFP6X04BU-UG		Category 6A Shielded Standard Compliant	F/UTP	0.250	CMP-LP (0.7A)		
PUFR6X04BU-UG	Riser (CMR, FT-4)	Category 6A Shielded Premium	U/FTP	0.290	CMR-LP (0.5A)		
PFR6X04BU-CG		Category 6A Shielded Standard Compliant	F/UTP	0.250			

H. Power Management

I. Cable Management Accessories

#### Channel Headroom

Panduit Copper Cabling Systems utilizing Mini-Com® Connectivity Components are designed for optimum network performance, design flexibility and reliability to protect network investments well into the future. Each system denoted provides users with headroom assurance that will exceed the applicable category of ANSI/TIA-568.2-D and ISO 11801 standards. Headroom values are based on "real world" conditions through the use of industry recognized hand-held testers. No test analyzers or computer models were used. Note the Performance Level specified for each cable and the corresponding headroom values to the right.

Electrical Value	Category 6A Shielded Premium	Category 6A UTP Premium	Category 6A Standard Compliant Plus
Insertion Loss	3%	3%	3%
NEXT	3.5 dB	3.5 dB	3 dB
PSNEXT	5 dB	5 dB	5 dB
PSACR-F	10 dB	10 dB	8 dB
Return Loss	3 dB	3 dB	1 dB
PSACR-N	6.5 dB	6.5 dB	6.5 dB
PSANEXT	20 dB	4 dB	2 dB
PSAACR-F	20 dB	10 dB	10 dB

J. Cable Routing Systems

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## TX6000™ Enhanced Category 6 Unshielded Copper Cable

- Superior headroom performance provides margins above the industry standard
- Exceptional performance for PoE++ applications - LP rated



Part Number	Flame Rating	Performance Level	Cable Construction	Cable Diameter In.	LP Rating	Packaging	Color
<b>BEST SELLER</b> PUP6004BU-WLP	Plenum (CMP, FT-6)	Category 6 Enhanced	U/UTP	0.222	CMP-LP (0.5A)	Easy Payout Carton	Blue
<b>BEST SELLER</b> PUR6004BU-W	Riser (CMR, FT-4)			0.237	-		

## TX6™ Plus Category 6 Unshielded Copper Cable

- Superior headroom performance provides margins above the industry standard
- Small diameter allows for improved pathway capacity, tighter bend radius and increased flexibility as well as exceptional performance for PoE++ applications - LP rated



Part Number	Flame Rating	Performance Level	Cable Construction	Cable Diameter In.	LP Rating	Packaging	Color
<b>BEST SELLER</b> PUP6C04BU-ULP	Plenum (CMP, FT-6)	Category 6 Standard Compliant Plus	U/UTP	0.205	CMP-LP (0.5A)	Easy Payout Carton	Blue
<b>BEST SELLER</b> PUP6C04BU-F				0.203			
<b>BEST SELLER</b> PUR6C04BU-U	Riser (CMR, FT-4)			0.210	-		
<b>BEST SELLER</b> PUR6C04BU-F				0.203			

Panduit Copper Cabling Systems utilizing Mini-Com® Connectivity Components are designed for optimum network performance, design flexibility and reliability to protect network investments well into the future. Each system denoted provides users with headroom assurance that will exceed the applicable category of ANSI/TIA-568.2-D and ISO 11801 standards. Headroom values are based on “real world” conditions through the use of industry recognized hand-held testers. No test analyzers or computer models were used. Note the Performance Level specified for each cable and the corresponding headroom values to the right.

### Channel Headroom

Electrical Value	TX6000™ Category 6 Enhanced	TX6™ Category 6 Standard Compliant Plus
Insertion Loss	5%	4%
NEXT	6 dB	4 dB
PSNEXT	7.5 dB	6 dB
PSACR-F	9 dB	8 dB
Return Loss	3 dB	3 dB
ACR-N	7 dB	5 dB
PSACR-N	9 dB	7 dB
ACR-F	7 dB	6 dB

## TX6™ Category 6 Shielded Copper Cable



Part Number	Flame Rating	Performance Level	Cable Construction	Cable Diameter In.	Packaging	Color
PFP6C04BU-UG	Plenum (CMP, FT-6)	Category 6 Standard Compliant	F/UTP	0.275	Reel	Blue
PFR6C04BU-UG	Riser (CMR, FT-4)			0.280		

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### TX6™ and TX6A™ Category 6 and Category 6A Outdoor OSP Copper Cable



PUO6C04BL-CEG

Part Number	Flame Rating	Performance Level	Cable Construction	Cable Diameter In.	LP Rating	Packaging	Color
PUO6C04BL-CEG	Outdoor OSP	Category 6 Standard Compliant	U/UTP	0.262	-	Reel	Black
PUO6X04BL-CEG		Category 6A Standard Compliant	F/UTP	0.323			
PFO6X04BL-CEG			U/UTP	0.260			
PUO6AS04BL-G	Indoor / Outdoor Plenum (CMP, FT-6)				CMP-LP (0.8A)		

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### TX6™ and TX6A™ Category 6 and Category 6A Armored Unshielded Copper Cable



PURCA6C04BU-UG

Part Number	Flame Rating	Performance Level	Cable Construction	Overall Outside Diameter In.	Packaging	Color
PURCA6C04BU-UG	Riser (CMR, FT-4)	Category 6 Standard Compliant	U/UTP 1x AIA	0.600	Reel	Blue
PURCA26C04BU-UG			U/UTP 2x AIA	0.905		
PURCA6X04BU-UG		Category 6A Standard Compliant	U/UTP 1x AIA	0.600		
PURCA26X04BU-UG			U/UTP 2x AIA	0.905		

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### Single Pair Ethernet Shielded Copper Cable



SP-SFCS1IG-CEG

Part Number	Flame Rating	Performance Level	Cable Construction	Cable Diameter In.	Packaging	Color
SP-SFCS1IG-CEG	Riser (CMR, FT-4), CMX-Outdoor	SP1-1000 Cable Construction 10Mb/s, 1km	S/FTP	0.268	Reel	International Gray

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## Copper Patch Cords

- Each patch cord is 100% performance tested to component limits
- Patented tangle-free latch on all plugs
- Supports IEEE 802.3af, 802.3at, and 802.3bt type 3 and 4 for PoE applications up to 100 W
- 28 AWG patch cords support up to 96 meters of channel length when using 6m of patch cord; De-rating factor: 1.9
- 26 AWG patch cords support full 100 meter channel length; De-rating factor: 1.5
- 24 AWG patch cords support full 100 meter channel length; De-rating factor: 1.2

## Unshielded Patch Cords

**BEST SELLER** Best Sellers are blue and white, 1, 3, 5, 7, 10 feet for immediate delivery.



UTP28X<sup>^</sup>BU

Part Number	Performance Level	Cable Type	AWG	Cable Diameter In. (mm)	Flammability Rating	Length <sup>^</sup>	Color*
UTP28X <sup>^</sup> A*	Category 6A	Unshielded	28	0.185 (4.7)	CM/LSZH	8 in., 1, 3, 5, 7, 10, 15 ft.	Off White (blank), Black (BL), Blue (BU), Green (GR), Red (RD), Yellow (YL)
UTP28SP <sup>^</sup> A*	Category 6			0.15 (3.8)			
UTP6AX <sup>^</sup> A*	Category 6A		24	0.25 (6.4)	CM	1, 3, 5, 7, 10, 15 ft.	
UTPSP <sup>^</sup> A*Y	Category 6			0.24 (6.0)			

On all combinations listed above, Panduit ships within 2 days for orders up to 500 cords.

## Shielded Patch Cords



STP28X<sup>^</sup>MIG

Part Number	Performance Level	Cable Type	AWG	Cable Diameter In. (mm)	Flammability Rating	Length m <sup>^</sup>	Color*
STP28X <sup>^</sup> M*	Category 6A	Shielded	28	0.185 (4.7)	CM/LSZH	0.2, 0.5, 1, 1.5, 2, 2.5, 3, 5	International Gray (IG), Black (BL), Blue (BU), Green (GR)
STP6X <sup>^</sup> M*			26	0.248 (6.3)			

On all combinations listed above, Panduit ships within 2 days for orders up to 500 cords.



**Like what you see...  
and want more?**

For more Copper Patch Cord options, visit  
[www.panduit.com/configure-copper-patch-cord](http://www.panduit.com/configure-copper-patch-cord).

## PanZone<sup>®</sup> Plug to Plug Cable Assemblies



UZPPBU<sup>^</sup>A

Part Number	Performance Level	Cable Type	AWG	Cable Diameter In. (mm)	Flammability Rating	Length Ft. <sup>^</sup>	Color
UZPPBU <sup>^</sup> A	Category 6A	Unshielded	23	0.25 (6.4)	CMP	10, 30, 60, 100	Blue
SAPPBU <sup>^</sup> A		Shielded		0.29 (7.36)			
UPPBU <sup>^</sup> A		Unshielded		0.24 (6.09)			

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### Mini-Com® TX6A™ and TX6™ PLUS Unshielded Jack Modules

- All jacks 100% tested to ensure NEXT and return loss performance and individually serialized for traceability
- Mini-Com® TG-style Jack Modules have EPDs and HPDs to help earn LEED points
- Utilize patented Giga-TX™ Technology for jack terminations which maintain cable pair geometry and minimize conductor untwist

**BEST SELLER** Best Seller Jack Modules





Part Number	Jack Type	Performance Level	Color*	Termination Style
 CJ6X88TG*	Unshielded Standard	Category 6A	Black (BL), Blue (BU), Electric Ivory (EI), Green (GR), International Gray (IG), Off White (IW), Orange (OR), Red (RD), Violet (VL), White (WH), Yellow (YL)	TG-Style
CJ688TG*		Category 6		
CJ6X88TG*-24		Category 6A		
CJ688TG*-24		Category 6		
 CJS6X88TGY	Shielded Standard	Category 6A	Black	
CJS688TGY		Category 6		

CJ6X88TGBL

CJ688TGBU

-24 indicates 24 pieces per package.

#### Other Available Jack Modules

CJ6X88TG*-24	Unshielded Standard	Category 6A	Electric Ivory (EI), Green (GR), International Gray (IG), Off White (IW), Orange (OR), Red (RD), Violet (VL), Yellow (YL)	TG-Style			
CJ688TG*-24		Category 6					
CJ6X88TG*-C		Category 6A					
CJ688TG*-C		Category 6					
 CJUD6X88TG*	Unshielded Up/Down	Category 6A	Black (BL), Blue (BU), Electric Ivory (EI), Green (GR), International Gray (IG), Off White (IW), Orange (OR), Red (RD), Violet (VL), White (WH), Yellow (YL)				
CJUD688TG*		Category 6					
 CJLR6X88TGBU	Unshielded Left/Right	Category 6A			Black (BL), Blue (BU), Electric Ivory (EI), Green (GR), International Gray (IG), Off White (IW), Orange (OR), Red (RD), Violet (VL), White (WH), Yellow (YL)		
CJLR688TG*		Category 6					
 CJH6X88TG*	Unshielded Spring Shuttered	Category 6A				Blue (BU), Green (GR), Red (RD), Violet (VL), White (WH), Yellow (YL)	
CJH688TG*		Category 6					
 CJS6X88TG*Y	Shielded Standard	Category 6A					Black
CJS688TG*Y		Category 6					
CJS6X88TGY-24		Category 6A					
CJS688TGY-24		Category 6					

CJLR6X88TGBU

CJH6X88TGBU

CJS6X88TGGRY

-24 indicates 24 pieces per package or -C indicates 100 pieces per package.



## Mini-Com® TX6A™ and TX6™ PLUS Unshielded and Shielded Coupler Modules

- RJ45 8-position female to RJ45 8-position female passthrough module for easy connection of 6 and 8-position RJ45 patch cords
- Also available as 24-port coupler patch panels, see page B.13
- Compatible with Mini-Com® Modular Patch Panels and Faceplates; not compatible with surface mount box applications

**BEST SELLER** Best Seller Coupler Modules



CC6X88BL

Part Number	Type	Performance Level	Color	Termination Style
CC6X88BL	Unshielded	Category 6A	Black	RJ45
CC688BL		Category 6		



CC688IW

Other Available Coupler Modules

CC6X88*	Unshielded	Category 6A	Blue (BU), Green (GR), Off White (IW), Orange (OR)	RJ45
CC688*		Category 6		
CCS6X88BL	Shielded	Category 6A	Black	

## TX6A™ Unshielded and Shielded Field Term Plugs

- Simple-to-attach field terminable plugs in straight and angled UTP versions
- 22-26 AWG compatible and re-terminable up to 20 times
- Category 6A performance, also compatible with Category 6 and 5e systems
- Utilizes patented Giga-TX™ Technology for cable terminations which maintain cable pair geometry and minimize conductor untwist

**BEST SELLER** Best Seller Field Term Plugs



FP6X88MTG FPS6X88MTG

Part Number	Type	Performance Level	Color	Termination Style
FP6X88MTG	Unshielded Straight	Category 6A	Black	TG-Style
FPS6X88MTG	Shielded Straight		Silver	

Other Available Field Term Plugs



FPUD6X88MTG

FP6X88MTG-X	Unshielded Straight	Category 6A	Black	TG-Style
FPUD6X88MTG	Unshielded 45° Angled			
FPUD6X88MTG-X				
FPS6X88MTG-X	Shielded Straight		Silver	

-X indicates 10 pieces per package.

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G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

H. Power Management

I. Cable Management Accessories

J. Cable Routing Systems

K. Surface Raceway

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A. Product Showcase

### TX6A™ Unshielded and Shielded Field Term Plug Test Cord



FP6X88TC

Part Number	Cable Type	Conductor Gauge (AWG)	Cable Diameter In. (mm)	Flammability Rating	Length Ft.	Color
FP6X88TC	Unshielded	26	0.24 (6.09)	CM	3.28	Red

B. Copper Systems

### TX6A™ and TX6™ PLUS Modular Plugs

- Exceed respective ANSI/TIA-568.2-D Category and ISO 11801 Class performance levels when properly terminated
- Patented tangle free latch prevents snags and provides easy release
- Modular plugs include 100 pieces per package

C. Fiber Systems

D. Industrial Networks



SP6X88-C

E. Audio Video Systems

F. Keystone Cabling Systems



SPS6X88-C

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

Part Number	Type	Performance Level	Wire Gauge AWG	Cable Diameter Range In. (mm)	Insulation Diameter Range In. (mm)
SP6X88-C	Unshielded	Category 6A	23-24	0.275–0.315 (6.99–8.00)	0.040–0.048 (1.02–1.22)
SP6X88P-C			24	0.260–0.300 (6.60–7.62)	0.036–0.042 (0.91–1.07)
SP6X88SD-C			26	0.220–0.250 (5.59–6.35)	0.025–0.030 (0.64–0.76)
SP628-C	Category 6	Category 6	28	0.138–0.189 (3.50–4.80)	Max. 0.027 (0.686)
SP688-C			23-24	0.225–0.250 (5.72–6.35)	0.036–0.042 (0.91–1.07)
SPS6X88-C	Shielded	Category 6A	23-24	0.275–0.300 (6.99–7.62)	0.042–0.047 (1.07–1.19)
SPS688-C		Category 6		24	0.230–0.265 (5.84–6.73)

H. Power Management

### Mini-Com® TX6A™ and TX6™ PLUS Unshielded Wire Caps



CJLRAPBU-X

I. Cable Management Accessories

J. Cable Routing Systems

K. Surface Raceway

Part Number	Type	Performance Level	Color	Termination Style
CJLRAPBU-X	Unshielded Left/Right	Category 6A	Blue	TG-Style
CJLRAPBU-C				
CJLRCAPIW-X	Unshielded Up/Down	Category 6	Off White	
CJLRCAPIW-C				
CJUDCAPBU-X	Unshielded Up/Down	Category 6A	Blue	
CJUDCAPBU-C				
CJUDCAPIW-X				
CJUDCAPIW-C	Category 6	Off White		

-X indicates 10 pieces per package or -C indicates 100 pieces per package.

L. Part Number Index

### Mini-Com® TX6A™ and TX6™ PLUS Shielded Wire Caps



CJSLRCAPBU-X

Part Number	Type	Performance Level	Color	Termination Style
CJSLRCAPBU-X	Shielded Left/Right	Category 6A	Blue	TG-Style
CJSLRCAPIW-X		Category 6	Off White	
CJSUDCAPBU-X	Shielded Up/Down	Category 6A	Blue	
CJSUDCAPIW-X		Category 6	Off White	

-X indicates 10 pieces per package.

### Single Pair Ethernet Plug



SP-1LSA22BL

Part Number	Description	AWG	Color
SP-1LSA22BL	Shielded Single Pair Ethernet 2 Wire, 2 Position Plug	18	Black

### TX6A™ FieldCord™ Connectors



FC-ICC/P3MBU



FC-ICC/P3MWH







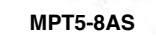







FC-OCC/O5MBL

Part Number	Plug Type	Performance Level	Flammability Rating	Length m	Color		
FC-ICCP0.5MBU	Unshielded Connector Cord	Category 6A	CMP	0.5	Blue		
FC-ICCP0.5MWH					White		
FC-ICCP1MBU				1	Blue		
FC-ICCP1MWH					White		
FC-ICC/P3MBU	Unshielded Connector Cord with Loose Splice Connector			3	3	Blue	
FC-ICC/P3MWH						White	
FC-OCCO1MBL	Shielded/Outdoor Connector Cord			CMX		1	Black
FC-OCCO3MBL							
FC-OCC/O5MBL	Shielded Connector Cord with Loose Splice Connector	5					

Part Number	Type	Performance Level	Color
FC-OSC	Shielded/Outdoor Splice Connector	Category 6A	Silver

### Tools and Accessories

Part Number	Type	Description	Color
 EGJT-1	Jack and Field Term Plug Termination Tools	TG Style Termination Tool.	Green
 TGSJT		45° TG Jack Termination Tool.	Red
 EGPT		Enhanced TG-Style Plug Termination Tool for Straight or Angled Field Term Plugs.	Violet
 TGJT		Termination Tool for TG Style Copper Jack Modules.	Black
 MPT5-8AS	Loose Piece Plug Termination Tools	Crimp tool for TX6™ PLUS and Pan-Plug® Modular Plugs.	
 CSPT	Loose Piece Plug Termination Tools	Termination Tool for Panduit Modular Plugs.	Blue
 SGPT		Termination Tool for 28 AWG Panduit Modular Plugs.	
 MDC-C	Jack Accessories	Clear RJ45 Dust Cap.	Clear
 CJSGK-XY		Grounding Kit for Giga-TX™ Style Jack Modules.	-
 CJAST	Cable Prep Tools	Copper Cable Stripping Tool.	Gray
 CJASTB		Replacement Blade Kit for CJAST.	-
 CWST		Copper Cable Snipping Tool.	Green

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## Mini-Com® Modular Patch Panels

- Accept Mini-Com® Modules, which snap in and out for easy moves, adds and changes
- Angled style facilitate proper bend radius control and minimizes the need for horizontal cable managers
- Front access design includes faceplate with easy snap release feature
- Select panels available in White
- Shielded panels limited to shielded jacks



CPP24FMWBLY



CPP48FMWBLY



CPPL24WBLY



CPPLA48WBLY

Part Number	Ports	No. of Rack Units	Style	Identification	Color			
<b>Flush Mount</b>								
<b>BEST SELLER</b> CPP24FMWBLY	24	1	Flat	Adhesive	Black			
CPP24FM6BL					White			
CPP24FMWWH					Black			
CPPA24FM6BL			Angled*		White			
CPPA24FMWWH					Black			
CPPA24FMWBLY					White			
<b>BEST SELLER</b> CPP48FMWBLY	48	2	Flat	Adhesive	Black			
<b>BEST SELLER</b> CPPA48FMWBLY			Angled*					
<b>BEST SELLER</b> CPP48FM6BL			Flat					
CPPA48FM6BL			Angled*					
CPP48FMWWH			Flat			White		
CPPA48FMWWH			Angled*					
CPP72FMWBLY			Flat		Black			
CPPA72FMWBLY			Angled*					
<b>Front Access</b>								
<b>BEST SELLER</b> CPP24WBLY			24		1	Flat	Adhesive	Black
<b>BEST SELLER</b> CPPL24WBLY	Label Pocket							
CPPL24M6BLY		Angled*						
CPPLA24WBLY	Adhesive							
CPPL48M6BLY	48	2	Flat	Label Pocket				
<b>BEST SELLER</b> CPP48WBLY			Adhesive					
<b>BEST SELLER</b> CPPL48WBLY				Label Pocket				
<b>BEST SELLER</b> CPPLA48WBLY			Angled*					
<b>BEST SELLER</b> CPP48WBLY			Flat	Adhesive				

\*Patented design

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CPPA48HDWBLY



CP24BLY



CP48BLY

Part Number	Ports	Rack Units	Style	Identification	Color
<b>High Density</b>					
<b>BEST SELLER</b> CPP48HDEWBL	48	1	Flat	Adhesive	Black
<b>BEST SELLER</b> CPP48HDVNSWBL				—	
<b>BEST SELLER</b> CPP48HDWBLY					
<b>BEST SELLER</b> CPPA48HDWBLY			Angled*	White	
CPP48HDWWH			Flat		
CPPA48HDVNSWBL			Angled*	Black	
CPPA48HDWWH				White	
CPPA48HDEWBL				Adhesive	Black
<b>All Metal Shielded</b>					
<b>BEST SELLER</b> CP24BLY	24	1	Flat	Adhesive	Black
CPA24BLY			Angled*		
CP24WH			Flat		White
CPA24WH			Angled*		
<b>BEST SELLER</b> CP48BLY	48	2	Flat	Adhesive	Black
CP48WH			Angled*		White
CPA48WH			Flat		Black
CPA48BLY					
CP48HDBL		Angled*	White		
CPA48HDBL					
CP48HDBL		1	Flat	Adhesive	Black
CP48HDWH			Angled*		White
CPA48HDBL	Flat		Black		
CPA48HDWH		Angled*		White	

\*Patented design

## Populated UTP Patch Panels

• Includes DP6A™ and DP6™ Panels with 110 punchdown termination and Category 6A and 6 coupler-based panels

• Coupler-based panels provide fast and easy connection of 6 and 8-position RJ45 patch cords



DP246X88TGY

**BEST SELLER**



DP24688TGWH

**BEST SELLER**



DP48688TGY

**BEST SELLER**

**BEST SELLER**

**BEST SELLER**

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**BEST SELLER**



TPK2A32R88S68

Part Number	Ports	No. of Rack Units	Performance Level	Style	Identification	Color	Termination Type			
CP246X88BL	24	1	Category 6A	Flat	Adhesive	Black	Coupler			
CP24688BL			Category 6							
DP246X88TGY			Category 6A					Angled*	White	
DP246X88TGWH										
DPA246X88TGY			Category 6	Angled*		Black				
DPA246X88TGWH										
DP24688TGY			Category 6	Angled*		White				
DP24688TGWH										
DPA24688TGWH						Black				
DPA24688TGY										
VP24382TV25Y			Category 3	Black		RJ21				
DP486X88TGY			48			2	Category 6A	Flat	White	110
DP486X88TGWH	Category 6A	Angled*		Black						
DPA486X88TGY					Category 6		Angled*			
DPA486X88TGWH										
DP48688TGY	Category 6	Angled*		Black						
DPA48688TGY					White					
DP48688TGWH				Angled*						
DPA48688TGWH										
TPK2A32R88S68	32	1		Category 3	Angled*		Adhesive	Black	68 Pin SCSI	

\*Patented Design.

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### Patch Panel Accessories

- Strain relief bars help support cable exiting the back of the panel
- Filler panels cover unused rack space
- Transitional cover for angled panels to help promote proper airflow and cooling
- Select product available in White



SRB19BLY



CPATCBL



CPAF1WH

Part Number	Type	Style	Color
<b>BEST SELLER</b> SRB19BLY	Strain Relief Bar	Extended	Black
<b>BEST SELLER</b> SRB19D5BL		Deep	
SRB19D7BL			
SRB19MDBL		Multi-Depth	
SRB19MDBL	Mounting Bracket	Quick Release	
CPATCBL	Transitional Cover		White
CPATCWH			Black
CPAF1BLY	Filler Panel	Angled	Black
CPAF2BLY			
CPAF1WH			White
CPAF2WH			

### Identification Products



Part Number	Description
<b>MP300 Printer / Label Cassettes</b>	
MP300	Includes MP300 printer, one (1) cassette of S100X150VAM self-laminating labels, rechargeable Li-ion Battery Pack, hard carrying case, AC power adapter, USB cable, magnetic attachments and quick reference card.

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## Identification Products (continued)

### MP300 Printer / Label Cassettes



Part Number	Description	Quantity of Labels per Cassette	Printer Compatibility		Print-On Area Color	Width In.	Length In.	Print-On Area Height In.	Min. Cable O.D. In.	Max. Cable O.D. In.	Wire/Cable Size Range
			MP100	MP300							
R100X150V1M	MP Cassette, Turn-Tell Self-Laminating Label, Vinyl.	100	N	Y	Black on White	1	1.5	0.5	0.22	0.28	10 – 6 AWG wire/cable, Category 5e/6/6A UTP and Category 5e FTP cable
R100X225V1M		75					2.25	0.75	0.28	0.39	8– 4 AWG wire/cable, Category 6 FTP and Category 6A cable
S100X150VAM		175					1.5	0.5	0.16	0.32	Category 5e, Category 6
S100X225VAM		125					2.25	0.75	0.24	0.48	8 - 4 AWG



Part Number	Description	Quantity of Labels per Cassette	Printer Compatibility		Print-On Area Color	Width In.	Length In.
			MP100	MP300			
C195X040Y1M	MP Cassette, Comp Label, Non-Adhesive Polyester.	125	N	Y	Black on White	1.95	0.4
C261X035Y1M		100				2.61	0.35



Part Number	Description	Printer Compatibility		Color	Width		Length	
		MP100	MP300		In.	mm	Ft.	m
T038X000VPM-BK	MP Cassette, Continuous Tape, Vinyl.	Y	Y	Black on White	0.354	9	23	7
T100X000VPM-BK					0.945	24		

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A.  
Product  
Showcase

### Labeling Software

- Powerful, easy-to-use, and affordable software that provides innovative features and functionality to address unique labeling needs
- Quickly create simple or complex labels with text boxes, lines, frames, or tables, and other useful tools
- Design detailed labels with multiple zones and objects for applications such as rating plates, arc flash labels, and fiber optic enclosures
- Simple user interface shows labels on the screen as they will be printed



Part Number	Description
EMPLUS-CD	Easy-Mark Plus™ Labeling Software, CD-ROM

B.  
Copper  
Systems

C.  
Fiber  
Systems

D.  
Industrial  
Networks

E.  
Audio  
Video  
Systems

### Laser/Ink Jet Labels



Part Number	Print-On Area Color	Width In.	Length In.	Print-On Area Height In.	Min. Cable O.D. In.	Max. Cable O.D. In.	Wire Range	Labels Per Row	Labels Per Sheet
R100X150X1J	White	1	1.5	0.5	0.22	0.28	Category 5e UTP, Category 6 UTP, Category 6A UTP, Category 5e FTP, 10 – 6 AWG	6	24
R100X225X1J			2.25	0.75	0.28	0.39	Category 6 FTP, Category 6A UTP, Category 6A FTP, 8 - 4 AWG		18
<b>BEST SELLER</b> S100X150YAJ			1.5	0.5	0.16	0.32	Category 5e UTP, Category 6 UTP, Category 6A UTP, Category 5e FTP, 10 – 6 AWG	7	42
<b>BEST SELLER</b> S100X225YAJ			2.25	0.75	0.24	0.48	Category 6 FTP, Category 6A UTP, Category 6A FTP, 8 - 4 AWG	8	32

F.  
Keystone  
Cabling  
Systems

G.  
Cabinets,  
Thermal  
Mgmt, Racks,  
Enclosures  
& Cable  
Mgmt

H.  
Power  
Management

### TDP Printer / Labels



Part Number	Description
<b>BEST SELLER</b> TDP43ME	300 dpi printer; includes printer, Panduit® Easy-Mark Plus™ Labeling Software, RMEH4BL black hybrid ribbon, AC power adapter with US power cord, USB cable, user manual, quick start card, TDP43ME-TB-KIT, and driver disk; for use in North America.

I.  
Cable  
Management  
Accessories

J.  
Cable  
Routing  
Systems



Part Number	Print-On Area Color	Width In.	Length In.	Print-On Area Height In.	Min. Cable O.D. In.	Max. Cable O.D. In.	Wire Range	Labels Per Row
<b>BEST SELLER</b> R100X150V1T	White	1	1.5	0.5	0.22	0.28	Category 5e UTP, Category 6 UTP, Category 6A UTP	4
R100X225V1T			2.25	0.75	0.28	0.39	Category 6 FTP, Category 6A UTP, Category 6A FTP, 8 – 4 AWG	
<b>BEST SELLER</b> S100X150VATY			1.5	0.5	0.16	0.32	Category 5e UTP, Category 6 UTP, Category 6A UTP, Category 5e FTP, 10 – 6 AWG	
<b>BEST SELLER</b> S100X225VATY			2.25	0.75	0.24	0.48	Category 6 FTP, Category 6A UTP, Category 6A FTP, 8 – 4 AWG	

K.  
Surface  
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### SmartKeeper Security Devices



Part Number	Type	Color
SKMKEY	Master Key	Gray
SKUSBC	USB Type C Blockout Device	Red
SKUSBA-V	USB Type A Blockout Device	
SKRJ45RD-X	RJ45 Blockout Device	

### RJ45 Plug Lock-In Device

- Blocks unauthorized removal of patch cord, VoIP phone, other networking equipment or critical connection
- Compact design does not interfere with adjacent jack modules, including high density applications
- Requires key to lock and unlock
- Locking mechanism is White for standard and clear for recessed devices



Part Number	Type	Color	Number of Keys
PSL-DCPLE	Standard	Red	1
PSL-DCPLE-BL		Black	
PSL-DCPLE-C		Red	5
PSL-DCPLRE	Recessed	Red	1
PSL-DCPLRE-BL		Black	
PSL-DCPLRE-C		Red	5

### RJ45 Jack Blockout Device

- Saves time and money by blocking unauthorized access and protecting jacks from foreign objects
- Compatible with most RJ45 jacks and does not interfere with jack contacts
- Does not interfere with adjacent jacks or hardware
- Requires key to remove



Part Number	Type	Color	Number of Keys
PSL-DCJB	RJ45	Red	1
PSL-DCJB-BL		Black	
PSL-DCJB-BU		Blue	
PSL-DCJB-C		Red	5

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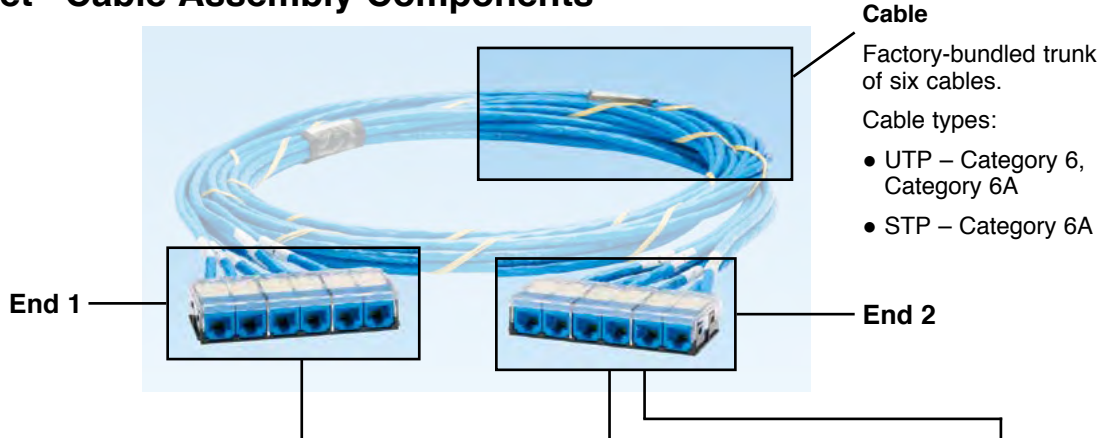
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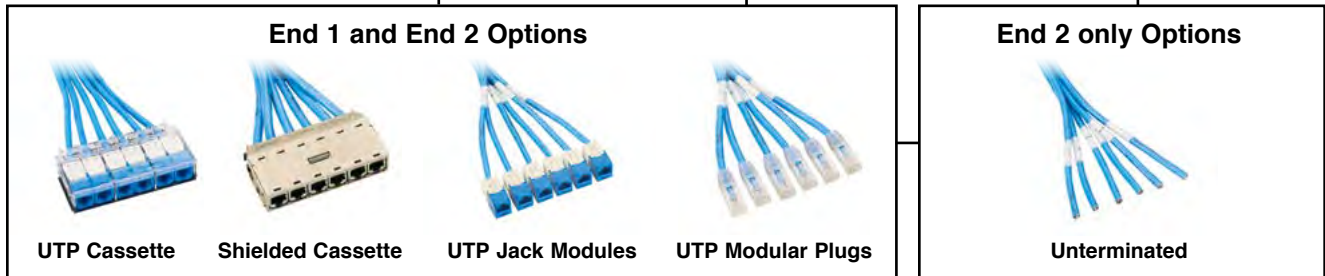
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### QuickNet™ Cable Assembly Components

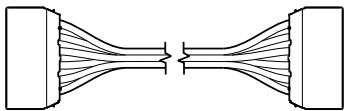


**Cable**  
 Factory-bundled trunk of six cables.  
 Cable types:

- UTP – Category 6, Category 6A
- STP – Category 6A

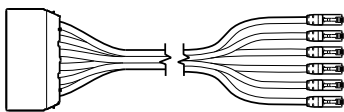


### Common QuickNet™ Cable Assembly Configurations



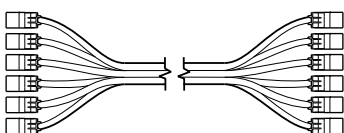
#### Cassette to Cassette

- Cassette of six jack modules on both ends of assembly
- Typically used in cabinet-to-cabinet permanent link trunks
- Installs into QuickNet™ Patch Panels on both ends in common interconnect and cross connect architectures, with cassette enabling quick installation into panels
- The most common QuickNet™ Configuration for permanent link trunks
- QuickNet™ Standard Parts for the Americas: UTP cassette-cassette, blue cable, blue jack modules



#### Cassette to Plug

- Similar configuration as above, but with six loose modular plugs
- Typically used for in-cabinet or cabinet-to-cabinet equipment cord harnesses
- Installs into QuickNet™ Patch Panels on one end and switch ports on the other for switch port replication applications



#### Jack to Jack

- Six loose jack modules on both ends of assembly
- Typically used in cabinet-to-cabinet permanent link trunks
- Installs into Mini-Com® Modular Patch Panels (or QuickNet™ Patch Panels with panel adapters) on both ends in common interconnect and cross connect architectures
- Compatible with PVIQ™ and PanView™ Intelligent Modular Patching Systems

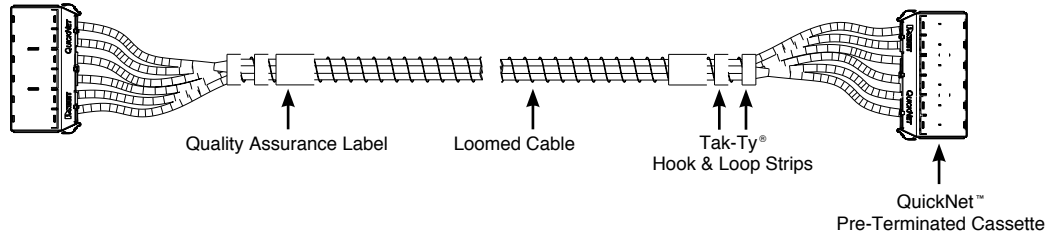


**Like what you see...  
and want more?**

For more QuickNet™ Trunk options, visit  
[www.panduit.com/configure-copper-trunk](http://www.panduit.com/configure-copper-trunk).

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## QuickNet™ Trunks



### QuickNet™ Cable Assemblies

Part Number	Performance Level	Cable Type	Flame Rating	End Type	Color	Length Ft.
QZPBCCB0001F010	Category 6A	UTP Vari-MaTriX	Plenum	Cassette to Cassette	Blue	10
QZPBCJB0001F010				Cassette to Jack		
QZPBCUB0001F010				Cassette to Underminated		
QZRBCCB0001F010			Riser	Cassette to Cassette		
QZRBCJB0001F010				Cassette to Jack		
QZRBCUB0001F010				Cassette to Underminated		

**Like what you see...and want more?**

For more QuickNet™ Trunk options, visit [www.panduit.com/configure-copper-trunk](http://www.panduit.com/configure-copper-trunk).

## Direct Attach Passive Cable Assemblies

- Ideal for Top of Rack (ToR) switch to server applications
- Passive connection provides a low cost, short reach interconnect option without additional power requirements
- 100% performance tested
- Low profile latching mechanism in connector allows assemblies to be installed side by side or stacked on top of each other providing maximum port density in high-density installations
- Small diameter cable design enables superior cable management and improved air flow
- Robust strain relief boot provides proper bend radius control for consistent reliability
- Variety of standard lengths allow more precise deployment, improved cable management and cost efficiencies

### SFP+ 10 Gb/s Assemblies

Constructed with high-speed, 2-pair, twinaxial cable, factory terminated to SFP+ 10 Gb/s hot pluggable modular connectors



Part Number	AWG	Color	Length m
PSF1PZA1MBL	30	Black	1
PSF1PZA1.5MBL			1.5
PSF1PZA2.5MBL			2.5
PSF1PZA3MBL			3
PSF1PZC3.5MBL	26		3.5
PSF1PZC4MBL			4
PSF1PZC5MBL		5	

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#### SFP28 25 Gb/s Assemblies

Constructed with high-speed, 2-pair, twinaxial cable, factory terminated to SFP28 25 Gb/s hot pluggable modular connectors



Part Number	AWG	Color	Length m
PSF2PZA1MBL	30	Black	1
PSF2PZA1.5MBL			1.5
PSF2PZA2MBL			2
PSF2PZA2.5MBL			2.5
PSF2PZA3MBL			3
PSF2PZC3.5MBL	26		3.5
PSF2PZC4MBL			4
PSF2PZC5MBL			5

#### QSFP28 100Gb/s Assemblies

Constructed with high-speed, 4-pair, twinaxial cable, factory terminated to QSFP28 100 Gb/s hot pluggable modular connectors



Part Number	AWG	Color	Length m
PQSF2PXA1MBL	30	Black	1
PQSF2PXA2MBL			2
PQSF2PXA3MBL			3
PQSF2PXC4MBL	26		4
PQSF2PXC5MBL			5

#### QSFP28 to SFP28 Breakout Assemblies

Constructed with high-speed, 4-pair, twinaxial cable, factory terminated to QSFP28 100 Gb/s and 4x25 Gb/s SFP28 hot pluggable modular connectors



Part Number	AWG	Color	Length m
PHQ4SFP2A1MBL	30	Black	1
PHQ4SFP2A2MBL			2
PHQ4SFP2A3MBL			3
PHQ4SFP2C4MBL	26		4
PHQ4SFP2C5MBL			5

## QuickNet™ Patch Panels and Accessories

- Accept QuickNet™ Copper Cable Assemblies and QuickNet™ SFQ Series MTP Fiber Optic Cassettes which snap in and out with one hand
- High-density patch panels conserve valuable rack space
- Angled patch panels facilitate proper bend radius control and minimize the need for horizontal cable managers
- All metal patch panels accept shielded cassettes, no additional grounding kit required
- Pre-printed numbers above each port for easy identification
- Mount to standard EIA 19" racks or 23" racks with optional extender brackets



QPP24BL



QPP48HDBL



QAPP24BL



QAPP48HDBL



QSP24BL



QASP24BL



QASP48HDBL



QPPABL



QPPBBL

Part Number	Ports	No. of Rack Spaces	Style
<b>QuickNet™ Unshielded Patch Panels</b>			
QPP24**	24	1	Flat
QPP48HD**	48		
QAPP24**	24		Angled*
QAPP48HD**	48		

Part Number	Ports	No. of Rack Spaces	Style
<b>QuickNet™ Shielded Patch Panels</b>			
QSP24**	24	1	Flat
QSP48HD**	48		
QASP24**	24		Angled*
QASP48HD**	48		

\*\*Colors available: Black (BL), White (WH).  
\*Patented Design

### QuickNet™ Accessories

Part Number	Description
QPPABL	QuickNet™ Patch Panel Adapter which accepts Mini-Com® Modules for UTP, fiber optic, and audio/visual applications.
QPPBBL	QuickNet™ Patch Panel Blank reserves space for future use and promotes proper airflow and cooling.

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### Mini-Com® Single Gang Faceplates

- Accept Mini-Com® Modules for STP and UTP, fiber optic, and audio/video
- Replacement label/label covers available where applicable
- Sloped design includes icon slots
- Non-label faceplates include screws with matching color head screws
- Executive series includes a raised rail design

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CFP1WH



CFPL2WHY



CFPL4WHY



CFPE2WHY



CFPE4WHY

Part Number	Ports	Style	Identification	Color
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#### Classic Series

Part Number	Ports	Style	Identification	Color	
CFP1WH	1	Flat	Adhesive	White	
CFP1IW				Off White	
CFPL1IWY			Label Pocket	White	
CFPL1WHY					
<b>BEST SELLER</b> CFPL2WHY	2		Adhesive	Label Pocket	White
CFP2WH					
CFP2IW			Sloped	Label Pocket	Off White
CFPL2IWY					
CFPSL2IWY	4	Flat	Label Pocket	White	
CFPSL2WHY					
CFPL4WHY		Sloped	Label Pocket	Off White	
CFPL4IWY					
CFPSL4IWY	Sloped	Label Pocket	White		
CFPSL4WHY					

#### Executive Series

Part Number	Ports	Style	Identification	Color	
CFPE1IWY	1	Flat	Label Pocket	Off White	
CFPE1WHY				White	
<b>BEST SELLER</b> CFPE2IWY	2			Label Pocket	Off White
CFPE2WHY					White
<b>BEST SELLER</b> CFPE4IWY	4			Label Pocket	Off White
CFPE4WHY					White



### Mini-Com® Stainless Steel Faceplates

- Accept Mini-Com® Modules for STP and UTP, fiber optic, and audio/video
- Replacement label/label covers available where applicable
- Impact-resistant 304 stainless steel for light industrial environments



CFPL2SY



CFPL4SY

Part Number	Ports	Style	Identification	Size
<b>BEST SELLER</b> CFPL2SY	2	Flat	Label Pocket	Single Gang
CFP2SY			Adhesive	
<b>BEST SELLER</b> CFPL4SY	4		Label Pocket	
CFP4SY			Adhesive	





## Mini-Com® Furniture Faceplates

- Accept Mini-Com® Modules for STP and UTP, fiber optic, and audio/video
- Replacement label/label covers available where applicable
- Optional adhesive labels available



CFFPL2BL

CFFPL4BL

Part Number	Description	Ports	Identification	Furniture Opening	Color
CFFPA2BL	Furniture Faceplate, Not Compatible with Extender Frame MFFPE	2	Adhesive	Standard	Black
CFFPL2BL	Furniture Faceplate, Compatible with Extender Frame MFFPE		Label Pocket		
<b>BEST SELLER</b> CFFPL4BL		4	Adhesive		
CFFP4BL					
CFFPHM4BL	Furniture Faceplate, Not Compatible with Extender Frame MFFPE			Herman Miller*	

\*HERMAN MILLER is a trademark of Herman Miller, Inc., Zeeland, MI.



## Mini-Com® Water Resistant Faceplate



CFPWR4CIG

Part Number	Description
CFPWR4CIG	Meets a level of protection of design. Includes combo head, gaskets, and tamper resistant screws to secure cover to base. Requires adhesive labeling, International Gray.

## Mini-Com® Adapter for WIREMOLD\* Frames



CHI2MBL-X

Part Number	Description
CHI2MBL-X	Snaps into most open communication WIREMOLD* frames, Black.

\*WIREMOLD is a registered trademark of Legrand in the United States.



## Mini-Com® Blank Modules

- Occupies unused ports for future use



CMBBL-X

Part Number	Description	Color
<b>BEST SELLER</b> CMBBL-X	Reserves a one module space for future use in Mini-Com® Patch Panels, Faceplates, and Surface Mount Boxes.	Black
<b>BEST SELLER</b> CMBWH-X		White
CMBIW-X		Off White

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### Phone Plates



KWPY



KWP6PY

Part Number	Description
KWPY	Empty faceplate, accepts one keystone module.
KWP6PY	Includes Category 6 keystone module.

B. Copper Systems

C. Fiber Systems



### Mini-Com® Surface Mount Boxes

- Accept Mini-Com® Modules for STP and UTP, fiber optic, and audio/video
- Replacement label/label covers available where applicable
- Mount easily with supplied mounting screws, adhesive tape or optional magnet
- Multimedia boxes include built-in fiber spool
- For shuttered applications use shuttered jacks

D. Industrial Networks

E. Audio Video Systems

F. Keystone Cabling Systems



CBX1WH-A



CBX2WH-AY



CBX4IW-AY



CBXQ6WH-A

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Part Number	Ports	Style	Identification	Magnet	Raceway Compatibility	Color	
<b>Standard</b>							
<b>BEST SELLER</b> CBX1WH-A	1	Elongated	Adhesive	-	LD3/LDPH3	White	
CBX1IW-A						Off White	
CBXQ1WH-A		Quick Release				CQBM-X	White
CBXQ1IW-A							Off White
<b>BEST SELLER</b> CBX2WH-AY	2	Elongated	Label Pocket	CBM-X	LD3/LDPH3 LD5/LDPH5	White	
CBX2IW-AY						Off White	
CBXQ2IW-A		Quick Release				CQBM-X	White
CBXQ2WH-A							Off White
CBX4IW-AY	4	Elongated	Label Pocket	CBM-X	LD3/LDPH3 LD5/LDPH5 LD10/LDPH10	White	
CBX4WH-AY						Off White	
CBXQ4IW-A		Quick Release				CQBM-X	White
CBXQ4WH-A							Off White
CBXQ6WH-A	6	Quick Release	CQBM-X	-	LD3/LDPH3 LD5/LDPH5 LD10/LDPH10	White	
CBXQ6IW-A						Off White	



CBXF6IW-AY

<b>Multimedia</b>						
CBXF6IW-AY	6	Multimedia	Label Pocket	-	LD3/LDPH3	LDPH3

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### OptiCam® LC Fiber Optic Connectors- Pre-Polished Cam Termination

- TIA/EIA-604 FOCIS-10 compliant connectors
- Exceed ANSI/TIA-568.3-D requirements
- Connector backbone and boot colors follow ANSI/TIA-568.3-D suggested color identification scheme
- Insertion loss: 0.3 dB average (multimode and singlemode)
- Return loss: >26 dB (multimode), >20 dB (multimode), >50 dB (singlemode)
- Quick installation; provide field termination in less than half the time of the field polish connectors
- Patented re-termination capability provide yield rates approaching 100%
- Factory pre-polished fiber end face eliminates time-consuming field polishing to reduce installation costs, labor, scrap and the number of tools required
- Cam activated fiber and buffer clamp mechanisms provide superior fiber and buffer retention- less sensitivity to fiber tensile loading
- OptiCam® 2 Termination Tool simplifies tooling and termination, and virtually eliminates operator error by providing calculated insertion loss after the cam step has been completed
- Fiber cable size: accepts 900µm tight buffered fiber with included boot(s); accepts 1.6mm-2.0mm and 3.0mm jacketed cable with available OptiCam® Cable Retention Boot Assemblies
- Ferrule type: 1.25mm zirconia ceramic (highest durability for repeated matings) to meet a variety of application requirements
- Use OptiCam® 2 Termination Kit (FOCTT2-KIT; FOCTT2-BKIT2; FOCTT2-PKIT2)



FLCDMCXAQY



FLCSSCBUY

Part Number	Cable Type	Connector Variant	Fiber Type	Cable Color
<b>BEST SELLER</b> FLCDMCXAQY	Duplex	Multimode	OM3/OM4/OM5	Aqua
FLCDSCBUY		Singlemode	OS1/OS2	Blue
FLCSCM5BLY	Simplex	Multimode	OM2	Black
FLCSCM6E1Y			OM1	Electric Ivory
<b>BEST SELLER</b> FLCSCMXAQY			OM3/OM4/OM5	Aqua
<b>BEST SELLER</b> FLCSSCBUY			Singlemode	OS1/OS2

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## OptiCam® SC/ST Fiber Optic Connectors- Pre-Polished Cam Termination

- TIA/EIA-604 FOCIS-3 (SC) and FOCIS-2 (ST) compliant connectors
- Exceed ANSI/TIA-568.3-D requirements
- Connector boot colors follow ANSI/TIA-568.3-D suggested color identification scheme
- Insertion loss: 0.3 dB average (multimode and singlemode)
- Return loss: >26 dB (multimode), >20 dB (multimode), >50 dB (singlemode)
- Quick installation; provide field termination in less than half the time of the field polish connectors
- Patented re-termination capability provide yield rates approaching 100%
- Factory pre-polished fiber end face eliminates time-consuming field polishing to reduce installation costs, labor, scrap and the number of tools required
- Cam activated fiber and buffer clamp mechanisms provide superior fiber and buffer retention- less sensitivity to fiber tensile loading
- OptiCam® 2 Termination Tool simplifies tooling and termination, and virtually eliminates operator error by providing visual indication of proper termination after the cam step has been completed
- Fiber cable size: accepts 900µm tight buffered fiber with included boot(s); accepts 1.6mm-2.0mm and 3.0mm jacketed cable with available OptiCam® Cable Retention Boot Assemblies
- Ferrule type: 2.5mm zirconia ceramic (highest durability for repeated mating) to meet a variety of application requirements
- Use OptiCam® 2 Termination Kit (FOCTT2-KIT; FOCTT2-BKIT2; FOCTT2-PKIT2)



Part Number	Cable Type	Connector Variant	Fiber Type	Cable Color
FSC2MC6EI	Simplex	Multimode	OM1	Electric Ivory
FSC2MCXAQ			OM3/OM4/OM5	Aqua
FSC2SCBU		Singlemode	OS1/OS2	Blue
FST2MC6EI		Multimode	OM1	Electric Ivory
FST2SCBU		Singlemode	OS1/OS2	Blue

## Fiber Optic Connectors - Fusion Splice

- TIA/EIA-604 FOCIS-3 (SC) and FOCIS-10 (LC) compliant connectors
- Exceed ANSI/TIA-568.3-D requirements
- Connector boot colors follow ANSI/TIA-568.3-D suggested color identification scheme
- Insertion loss: Singlemode is 0.15 dB average, 0.30 dB maximum; Multimode is 0.10 dB average, 0.25 dB maximum
- Return loss: Singlemode is > 55 dB (UPC) or > 65 dB (APC); multimode is > 30 dB (PC)
- Quick installation; provide field termination in less than half the time of the field polish connectors



Part Number	Connector Type	Cable Type	Connector Variant	Fiber Type	Boot Color
FSCS2/9SOCA9AG	SC	Simplex	Singlemode	OS1/OS2	Green
FSCS2/9SOCU9BU					Blue
FSCS2/9SOCPXQAQ			Multimode	OM3/OM4/OM5	Aqua
FLCS2/9SOCA9AG	LC		Singlemode	OS1/OS2	Green
FLCS2/9SOCU9BU					Aqua
FLCS2/9SOCPXQAQ			Multimode	OM3/OM4/OM5	Blue

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### OptiCam® 2 Termination Tool

- Provides accurate calculated connector insertion loss with pass/fail thresholds in accordance with ANSI/TIA-568.3-D
- LCD Display with on-screen directions for three step termination process
- Wireless enabled for synchronization with Connect-It mobile app, allowing rich data analytics and project documentation
- Works with all current Panduit OptiCam® LC, Keyed LC, SC, and ST Connectors

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FOCTT2-BKIT2



FOCTT2-PKIT2

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Part Number	Description
FOCTT2-KIT	OptiCam® 2 Termination Tool Basics Kit.
FOCTT2-BKIT2	OptiCam® 2 Termination Tool Kit with beaver-tail style cleaver.
FOCTT2-PKIT2	OptiCam® 2 Termination Tool Kit with precision rotary-style cleaver.
FOLPC-1.25SM	Replacement 1.25mm ferrule launch cord for singlemode LC terminations (Singlemode).
FOLPC-1.25MM	Replacement 1.25mm ferrule launch cord for multimode LC terminations (OM1, OM2, OM3/OM4/OM5 Multimode).
FOLPC-2.5SM	Replacement 2.5mm ferrule launch cord for singlemode SC and ST terminations (Singlemode).
FOLPC-2.5MM	Replacement 2.5mm ferrule launch cord for multimode SC and ST terminations (OM1, OM2, OM3/OM4/OM5 Multimode).
FSPCVR	Precision fiber cleaver with rotary blade, receptacle for scrap stubs, cleave counter.
FOCTT2CORD	OptiCam® 2 Termination Tool Data Cord.
FOSTFH	Fiber Optic Strip Tool (Five Hole).

### OptiCam® Accessories



FLCCLIW-X

Part Number	Description
FLCCLIW-X	Ten fiber LC connector lock-in clips and one removal tool.
FO6CB	Fan out 6-fibers.
FO12CB	Fan out 12-fibers.
F250BT-C	Build-up tubing for 250µm cable.
FCLEANSOL	Fiber cleaning solution.
FCLEANWIPE	Fiber cleaning wipes.

## Opti-Core® Fiber Optic Distribution Cable

- Used in intrabuilding backbone, building backbone, and horizontal installations for riser (OFNR), plenum (OFNP), and general-purpose environments
- Available in 6, 12, and 24-fiber counts in a “single jacket” design, and in 48, 72, 96, and 144-fiber counts in a sub-unit design
- Sheath markings provide positive identification, quality, traceability, and length verification
- Cable design and flexible buffer tubes allow for quick breakout and ease of routing
- 900µm standards-based color-coded buffer coating protects fibers during handling and allows for easy identification and stripping



FODRX06Y

Part Number	Flame Rating	Fiber Type	Fiber Count	
FODPX06Y	Plenum	50µm Multimode OM3	6	
FODPX12Y			12	
FODPZ06Y			6	
<b>BEST SELLER</b> FODPZ12Y		50µm Multimode OM4	12	
<b>BEST SELLER</b> FODPZ24Y			24	
FODRX06Y			6	
<b>BEST SELLER</b> FODRZ12Y	Riser	50µm Multimode OM4	12	
<b>BEST SELLER</b> FODRZ24Y			24	
<b>BEST SELLER</b> FSDP912Y			Plenum	9µm Singlemode OS2
<b>BEST SELLER</b> FSDP924Y	24			
<b>BEST SELLER</b> FSDR912Y	Riser	12		
<b>BEST SELLER</b> FSDR924Y		24		

## Opti-Core® Fiber Optic Distribution Interlocking Armor Cable

- Used in intrabuilding backbone, building backbone, and horizontal installations for riser (OFCR), plenum (OFCP), and general-purpose environments
- Interlocking aluminum armor eliminates the need for inner duct or conduit to provide a smaller crush resistant pathway for design flexibility and a lower installed cost
- Available in 6, 12, and 24-fiber counts in a “single jacket” design, and in 48, 72, 96, and 144-fiber counts in a sub-unit design
- Sheath markings provide positive identification, quality, traceability, and length verification
- Cable design and flexible buffer tubes allow for quick breakout and ease of routing
- 900µm standards-based color-coded buffer coating protects fibers during handling and allows for easy identification and stripping



FOPRZ12Y

Part Number	Flame Rating	Fiber Type	Fiber Count	
FOPPX06Y	Plenum	50µm Multimode OM3	6	
FOPPX12Y			12	
FOPPX24Y			24	
FOPPZ06Y		50µm Multimode OM4	6	
FOPPZ12Y			12	
FOPPZ24Y			24	
FOPRZ12Y	Riser		12	
FSPPP06Y	Plenum	9µm Singlemode OS2	6	
FSPPP912Y			12	
FSPPP914Y			144	
FSPPP924Y			24	
FSPPP948Y			48	
FSPPP972Y			72	
FSPPP996Y			96	
FSPR912Y			Riser	12

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### Opti-Core® Fiber Optic Gel-Free Indoor/Outdoor Loose Tube

- Allows installation using loose tube cable methods within building and outdoor environments for transitional aerial and duct applications, and in entrance facilities that require Riser (OFNR) or Plenum (OFNP) rated cable
- Eliminates the need for building entrance transition point
- All-dielectric cable construction requires no grounding or bonding
- UV resistant cable sheathing meets the light absorption requirement defined by Telcordia GR-20, Issue 2 to withstand harsh outdoor environmental demands
- Dry water-blocking technology allows rapid cable preparation and termination for lower termination costs and time (no messy gel to clean up)
- Available in 6 and 12 fiber counts “central loose tube” and 24-144 fiber counts in “stranded loose tube” design
- Sheath markings provide positive identification, quality, traceability, and length verification
- 250µm buffer coating protects fibers during handling and allows for ease of stripping



FOCPZ12Y

Part Number	Flame Rating	Fiber Type	Fiber Count	Construction	
FOCPX06Y	Plenum	50µm Multimode OM3	6	Central Loose Tube	
FOCPX12Y			12		
FOCPZ06Y		50µm Multimode OM4	6		
FOCPZ12Y			12		
FOCRX06Y	Riser	50µm Multimode OM3	6		
FOCRX12Y			12		
FOCRZ06Y		50µm Multimode OM4	6		
FOCRZ12Y			12		
FONPZ24Y	Plenum		24		Stranded Loose Tube
FONRX48Y	Riser	50µm Multimode OM3	48		
FONRX96Y			96		
FSCP912Y	Plenum	9µm Singlemode OS2	12		Central Loose Tube
FSCR906Y	Riser		6		
FSCR912Y			12		
FSNP924Y	Plenum		24	Stranded Loose Tube	
FSNP948Y			48		
FSNP996Y			96		



## Opti-Core® Fiber Optic Gel-Free Indoor/Outdoor Interlocking Armor Loose Tube

- Allows installation using loose tube cable methods within building and outdoor environments for transitional aerial and duct applications, and in entrance facilities that require Riser (OFNR) or Plenum (OFNP) rated cable
- Eliminates the need for building entrance transition point
- Interlocking aluminum armor eliminates the need for inner duct or conduit to provide a smaller crush resistant pathway for design flexibility and a lower installed cost
- UV resistant cable sheathing meets the light absorption requirement defined by Telcordia GR-20, Issue 2 to withstand harsh outdoor environmental demands
- Dry water-blocking technology allows rapid cable preparation and termination for lower termination costs and time (no messy gel to clean up)
- Available in 6 and 12 fiber counts “central loose tube” and 24-144 fiber counts in “stranded loose tube” design
- Sheath markings provide positive identification, quality, traceability, and length verification
- 250µm buffer coating protects fibers during handling and allows for ease of stripping



Part Number	Flame Rating	Fiber Type	Fiber Count	Construction
FOGPZ12Y	Plenum	50µm Multimode OM4	12	Central Loose Tube Armored
FOMPX24Y		50µm Multimode OM3	24	Stranded Loose Tube Armored
FSGR912Y	Riser	9µm Singlemode OS2	12	Central Loose Tube Armored
FSMP624Y	Plenum	62.5µm Multimode OM1	24	Stranded Loose Tube Armored
FSMP924Y		9µm Singlemode OS2		
FSMR924Y	Riser	9µm Singlemode OS2		

## Opti-Core® Fiber Optic Indoor/Outdoor Tight Buffered

- Allows installation using tight buffered cable methods within building and outdoor environments for transitional aerial and duct applications, and in entrance facilities that require Riser (OFNR) or Plenum (OFNP) rated cable
- Eliminates the need for building entrance transition point
- All-dielectric cable construction requires no grounding or bonding
- UV resistant cable sheathing meets the light absorption requirement defined by Telcordia GR-20, Issue 2 to withstand harsh outdoor environmental demands
- Sheath markings provide positive identification, quality, traceability, and length verification
- 900µm buffer coating protects fibers during handling and allows for ease of stripping



Part Number	Flame Rating	Fiber Type	Fiber Count
FOKPX06	Plenum	50µm Multimode OM3	6
FOKPX12			12
FOKRX48			48
FSKP912	Plenum	9µm Singlemode OS2	12

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A. Product Showcase

### Opti-Core® Fiber Optic Indoor/Outdoor Interlocking Armored Tight Buffered

B. Copper Systems

- Allows installation using tight buffered cable methods within building and outdoor environments for transitional aerial and duct applications, and in entrance facilities that require Riser (OFCR) or Plenum (OFCP) rated cable
- Interlocking aluminum armor eliminates the need for inner duct or conduit to provide a smaller crush resistant pathway for design flexibility and a lower installed cost
- Sheath markings provide positive identification, quality, traceability, and length verification
- 900µm buffer coating protects fibers during handling and allows for ease of stripping

C. Fiber Systems



FSLR912

Part Number	Flame Rating	Fiber Type	Fiber Count
FSLP912	Plenum	9µm Singlemode OS2	12
FSLP924			24
FSLR912	Riser		12
FSLR948			48

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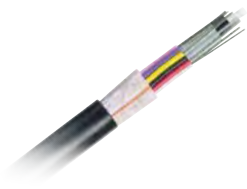
G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

### Opti-Core® Fiber Optic Gel-Free Outside Plant Cable

H. Power Management

- Allows installation using loose tube cable methods in outdoor environments such as transitional aerial and duct applications
- Gel-free design with water swellable tape provides dry water blocking
- All-dielectric cable construction requires no grounding or bonding
- UV resistant cable sheathing meets the light absorption requirement defined by Telcordia GR-20, Issue 2 to withstand harsh outdoor environmental demands
- Complies with RUS 7 CFR 1755.900 requirements for fiber optic service entrance cables
- Available in 6 - 144 fiber counts in loose tube design
- Medium density polyethylene jacket provides low friction installation
- Sheath markings provide positive identification, quality, traceability, and length verification
- 250µm buffer coating protects fibers during handling and allows for ease of stripping

I. Cable Management Accessories



FOTNZ12

Part Number	Flame Rating	Fiber Type	Fiber Count
FOTNX06	Non-Rated	50µm Multimode OM3	6
FOTNX12			50µm Multimode OM4
FOTNZ12		9µm Singlemode OS2	
FSTN912			24
FSTN91A			
FSTN924			

J. Cable Routing Systems

K. Surface Raceway

L. Part Number Index

## Opti-Core® Fiber Optic Gel-Free Outside Plant Single Armor Single Jacket Cable

- Allows installation using loose tube cable methods in outdoor environments such as transitional aerial and duct applications
- Gel-free design with water swellable tape provides dry water blocking
- Corrugated steel armor provides superior crush resistance and rodent protection for extended durability
- UV resistant cable sheathing meets the light absorption requirement defined by Telcordia GR-20, Issue 2 to withstand harsh outdoor environmental demands
- Complies with RUS 7 CFR 1755.900 requirements for fiber optic service entrance cables
- Available in 6 - 144 fiber counts in loose tube design
- Medium density polyethylene jacket provides low friction installation
- Sheath markings provide positive identification, quality, traceability, and length verification
- 250µm buffer coating protects fibers during handling and allows for ease of stripping



FSWN948

Part Number	Flame Rating	Fiber Type	Fiber Count
FOWNX06	Non-Rated	50µm Multimode OM3	6
FOWNX12			12
FOWNZ06		50µm Multimode OM4	6
FOWNZ12			12
FSWN906		9µm Singlemode OS2	6
FSWN912			12
FSWN924			24
FSWN948			48

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### Opti-Core® Fiber Optic Interconnect Cable

B.  
Copper  
Systems

- Used in interconnect and horizontal installations for Riser (OFNR), Plenum (OFNP) or general purpose environments
- Sheath markings provide positive identification, quality, traceability, and length verification
- Colored buffer for ease of identification
- High quality buffering offers ease of stripping while maintaining optical performance
- Small diameter and flexible jackets allow for routing in tight spaces such as panels, cable trays, and fiber to the desk (FTTD) applications

C.  
Fiber  
Systems



FOIPZ02Y

Part Number	Flame Rating	Fiber Type	Fiber Count
FOIPZ02Y	Plenum	50µm Multimode OM4	2
FOIRX02Y	Riser	50µm Multimode OM3	2

D.  
Industrial  
Networks

E.  
Audio  
Video  
Systems

### Opti-Core® Ribbon Fiber Cable

F.  
Keystone  
Cabling  
Systems

- Ribbonized fibers reduce installation time by allowing the installer to splice or terminate twelve fibers at a time
- 12-fiber ribbons are compatible with MPO multi-fiber connectors and pigtails
- Flame ratings include Plenum, Riser, LSZH and EuroClass
- Both the Indoor and Indoor-outdoor versions are used in data centers, colocation facilities and vertical backbones
- Indoor-outdoor version has a robust construction suitable for building-to-building cable connections, eliminating the need for intermediate splice transitions from the outdoor environment to indoor use

G.  
Cabinets,  
Thermal  
Mgmt, Racks,  
Enclosures  
& Cable  
Mgmt



FFDPA144F

Part Number	Flame Rating	Fiber Type	Fiber Count	Construction
FFCCBX288-24F	LSZH, Euroclass Cca	OS2, Flexible Ribbon	288	Indoor/Outdoor Central Tube, Ribbon
FFCDBX288-28M	Riser, LSZH, Euroclass Cca			
FFDCBF144-14F	LSZH, Euroclass B2ca	OS2, Flat Ribbon	144	Indoor Distribution, Ribbon
FFDDBF144-18M	Riser, LSZH, Euroclass B2ca			
FFDPAX144F	Plenum	OS2, Flexible Ribbon	144	Indoor Distribution, Ribbon

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Power  
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## Fiber Optic Adapters

- TIA/EIA-604 FOCIS-10 compatible adapters
- Exceed ANSI/TIA-568.3-D requirements
- Adapter housing colors follow ANSI/TIA-568.3-D suggested color identification scheme
- Accept FOCIS-10 compatible LC connectors



Part Number	Adapter Type	Color	Split Sleeve
<b>BEST SELLER</b> FADSLCZAQ-L	Duplex LC	Aqua	Zirconia
<b>BEST SELLER</b> FADSLCZBU-L		Blue	

## Mini-Com® Fiber Optic Adapter Modules

- TIA/EIA-604 FOCIS-10 and FOCIS-3 compatible adapters
- Exceed ANSI/TIA-568.3-D requirements
- Adapter housing colors follow ANSI/TIA-568.3-D suggested color identification scheme
- Small form factor (SFF) duplex adapter design fits into single module space
- Compatible with Mini-Com® Products for complete modularity
- Accept FOCIS-10 compatible LC connectors and FOCIS-3 compatible SC connectors



CMDSAQLCZBL



CMDSLCZBU

Part Number	Adapter Type	Adapter Color	Split Sleeve	Module Color	
<b>BEST SELLER</b> CMDSAQLCZBL	Duplex LC	Aqua	Zirconia	Black	
CMDSAGLCZBL	Duplex LC APC	Green			
CMDSLCZBL					
<b>BEST SELLER</b> CMDSLCZBU	Duplex LC	Blue		Zirconia	Blue
CMDSLCZEI					Electric Ivory
CMDAQSCZBL	Duplex SC	Aqua			Black
CMDBUSCZBL		Blue			
CMDAGSCZBL	Duplex SC APC	Green			
CMSAQSCZBL	Simplex SC	Aqua			
CMSBUSCZBL		Blue			
CMSAGSCZBL	Simplex SC APC	Green			

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### HD Flex™ Enclosures, Panels and Accessories

- Enclosures and panels support 144-fibers with LC connectors and 864-fiber with MPO-12 connectors per RU
- Enclosure drawers slide to two locked positions for easy moves, adds, and changes from the front or rear of the enclosure
- Enclosure split tray design allows half of the tray to operate independently, eliminating unnecessary fiber movement on the other half of the tray
- Panels are fixed tray design, light weight, and shallow depth - ideal for high density cabinets or overhead installation
- 4-, 6-, and 12-port enclosures and panels ship pre-configured to house 4-, 6-, and 12-port cassettes, respectively
- Enclosures and panels can be configured in the field to support 4-port, 6-port, and/or 12-port cassettes by adding/removing divider rails
- Zero RU brackets secure HD Flex™ Cassettes and/or FAPs to vertical rails, saving valuable RU space

Image	Part Number	No. of Rack Spaces	Type	Cassette/FAP Openings	Color
	FLEX4U04	4	4-Port Enclosure	18	Black
	FLEX2U04	2		36	
	FLEX1U04	1		72	
	FLEX1UPN04	1	4-Port Panel	18	
	FLEX2UPN04	2		36	
	FLEX4UPN04	4		72	
	<b>BEST SELLER</b> FLEX1U06**	1	6-Port Enclosure	12	Black **Add WH for White
	<b>BEST SELLER</b> FLEX2U06**	2		24	
	FLEX4U06**	4		48	
	FLEX1UPN06**	1	6-Port Panel	12	
	FLEX2UPN06**	2		24	
	FLEX4UPN06**	4		48	
	FLEX-0RUBR06	0	12-Port Enclosure	6	Black
	FLEX2U12	2		12	
	FLEX4U12	4		24	
	FLEX1UPN12	1	12-Port Panel	6	
	FLEX2UPN12	2		12	
	FLEX4UPN12	4		24	
	FLEX1UPN12	0	6-Port Bracket and Cassette Holder	2	Black **Add WH for White

### HD Flex™ Raised Floor Enclosure

Image	Part Number	Description
	FLEX-ZRFECG	HD Flex™ Zone Raised Floor Enclosure Cover, Gray.
	FLEX-ZRFEG	HD Flex™ Zone Raised Floor Enclosure, Gray.

## HD Flex™ Fiber Optic Cassettes

- Compatible with HD Flex™ Rack Mount Enclosures, Panels, and Zero RU Brackets
- LC adapters include integral shutters for dust protection and VFL light identification
- Low insertion loss of 0.5 dB per optimized cassette, 0.35 dB for ultra cassette, and 0.75 dB for standard singlemode cassette
- Return loss >26 dB (multimode) and >55 dB (singlemode)
- Adapter housing colors follow ANSI/TIA-568.3-D suggested color identification scheme
- Cassettes accessible from the front or back to streamline installation and migration from 10G to 40G/100G and beyond
- Performance test data provided with each cassette
- Lifetime traceability of test data to a QC numbers on each fiber cassette
- 4-to-1 conversion cassettes split MPO parallel optics signals into 4 discrete channels on duplex LCs - 40G MPO to (4)10G LC, and 100G MPO to (4) 25G LC

Part Number	Fiber Type	Fiber Count	No. of MPOs	No. of Duplex LCs	Performance	Polarity			
<b>HD Flex™ LC/MPO Cassettes</b>									
FHC9N-12-10AF	OS2	12	1x12f	6	Standard	Modified Method A (Pair Flipped)			
FHC9N-12-10AS						Method A			
FHC9N-12-10U						Universal			
FHCXO-12-10AF	OM3				Optimized	Modified Method A (Pair Flipped)			
FHCXO-12-10AS						Method A			
FHCXO-12-10U						Universal			
FHCZA-12-10AF	OM4			Ultra	6	Ultra	Modified Method A (Pair Flipped)		
FHCZA-12-10AS							Method A		
FHCZA-12-10U							Universal		
FHCZO-12-10AF	OM4			Optimized	6	Optimized	Modified Method A (Pair Flipped)		
FHCZO-12-10AS							Method A		
FHCZO-12-10U							Universal		
FHCZA-12-10AF	OM4+	Ultra	6	Ultra	Universal				
FHCZA-12-10AS					Method B				
FHCZA-12-10U					Method B				
FHCWA-12-10BN	OM5	OM5	6	Ultra	Method B	Method B			
<b>HD Flex™ 24-Port Cassettes</b>									
FHC9N-24-10AF	OS2	24	2x12f	12	Standard	Modified Method A (Pair Flipped)			
FHC9N-24-10AS						Method A			
FHC9N-24-10U						Universal			
FHCXO-24-10U	OM3				Optimized	12	Optimized	Method B	
FHCZO-24-10BN								OM4	Universal
FHCZO-24-10U									Method B
FHCZA-24-10U	OM4+			Ultra	12	Ultra	Universal		
FHCWA-24-10BN							OM5	Method B	



FHC9N-12-10AF



FHCZO-12-10AS



FHCXO-24-10U

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#### HD Flex™ CS/MPO Cassettes



FHC9N-16-C2U

Part Number	Fiber Type	No. of Rear MPOs	Fiber Count	No. of Front Duplex CS	Performance	Polarity
FHC9N-16-C2U	OS2	(2) 8F MPO	16	(8) CS	Standard	Universal
FHC9N-16F-C2U		(1) 24F MPO				
FHC9N-36-C3U		(3) 12F MPO				
FHCZO-16-C2U	OM4	(2) 8F MPO	16	(8) CS	Optimized	
FHCZO-16F-C2U		(1) 24F MPO				
FHCZO-36-C3U		(3) 12F MPO				

#### HD Flex™ 4-to-1 Conversion Cassettes



FHC3ZA-08H-10B



FHC39N-08-10A



FHC39N-24H-10A



FHCXO-24F-10A

Part Number	Fiber Type	Fiber Count	No. of Rear MPOs	No. of Front Duplex LCs	Performance	Polarity
FHC3XO-08H-10B	OM3	8	1x8f	4	Optimized	Method B/Universal
FHC3ZA-08H-10B	OM4				Ultra	
FHC39N-08H-10A	OS2				Standard	Method A
FHC3XO-08-10B	OM3	8	1x8f	4	Optimized	Method B/Universal
FHC3ZA-08-10B	OM4				Ultra	
FHC39N-08-10A	OS2				Standard	Method A
FHC3XO-24H-10B	OM3	24	3x8f	12	Optimized	Method B/Universal
FHC3ZA-24H-10B	OM4				Ultra	
FHC39N-24H-10A	OS2				Standard	Method A

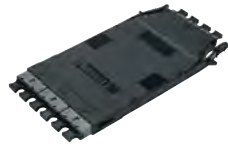
#### 100GBASE-SR10 and SR12 Breakout Cassettes

<b>BEST SELLER</b> FHCXO-24F-10A	OM3	24	1x24f	12	Optimized	Method A
<b>BEST SELLER</b> FHCZO-24F-10A	OM4					
<b>BEST SELLER</b> FHC9N-24F-10A	OS2				Standard	



## HD Flex™ Fiber Optic Cassettes (continued)

### HD Flex™ Dark Fiber Conversion Cassette



FH4ZU-48-NMNMA

Part Number	Fiber Type	Fiber Count	No. of Rear MPOs	No. of Front MPOs	Performance	Polarity
FH4ZU-24-NMNMA	OM4	24	2x12f	3x8f	Ultra	Method A
FH4ZU-24-NMNMB						Method B
FH4ZU-48-NMNMA		48	4x12f	6x8f		Method A

### HD Flex™ Splice Cassettes



FHSZO-12-10R

Part Number	Fiber Type	Fiber Count	Pigtail	No. of Duplex LCs	Performance
FHSZO-12-10P	OM4	12	250µm Pigtails	6	Optimized
FHSZO-12-10R			Ribbon		
FHS9N-12-10P	OS2		250µm Pigtails		Standard
FHS9N-12-10R			Ribbon		

## HD Flex™ Adapter Panel and Accessories



FHSXN-12-10N



FHMP-6-ABL



FHSBBL06W



FLEX-FCM1UA



FLEX-PLATE1U

Part Number	Description
FHSXN-12-10N	6 LC duplex multimode adapters in aqua with zirconia sleeves.
FHS9N-12-10N	6 LC duplex singlemode adapters in blue with zirconia sleeves.
FHMP-6-ABL	6 MPO type A adapters (key-up to key-down) in black.
FHMP-6-BCG	6 MPO type B adapters (key-up to key-up) in charcoal gray.
FHMP-6-ARD	6 MPO type A adapters (key-up to key-down) in red.
FHSBBL06W	HD Flex™ Blanking Panel for 6-port enclosures and panels.
FHSBBL12W	HD Flex™ Blanking Panel for 12-port enclosures and panels.
FLEX-FCM1UA**	1 RU HD Flex™ Front Cable Manager.
FLEX-FCM2UA**	2 RU HD Flex™ Front Cable Manager.
FLEX-FCM4UA**	4 RU HD Flex™ Front Cable Manager.
<b>BEST SELLER</b> FLEX-PLATE1U**	HD Flex™ Enclosure Trunk Slack Plate 1 RU.
FLEX-PLATE2U**	HD Flex™ Enclosure Trunk Slack Plate 2 RU.
FLEX-PLATE4U**	HD Flex™ Enclosure Trunk Slack Plate 4 RU.

\*\*Offered in White (add WH to part number for White).

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FLEX-CLIP12



FLEX-CM12S



FLEX-CM-1UB

Part Number	Description
FLEX-PLATE1UR*	HD Flex™ Enclosure Trunk Slack Plate with Rear Cover – 1 RU.
FLEX-PLATE2UR*	HD Flex™ Enclosure Trunk Slack Plate with Rear Cover – 2 RU.
FLEX-PLATE4UR*	HD Flex™ Enclosure Trunk Slack Plate with Rear Cover – 4 RU.
FLEX-PLATE1UPR*	HD Flex™ Patch Panel Trunk Slack Plate with Rear Cover – 1 RU.
FLEX-PLATE2UPR*	HD Flex™ Patch Panel Trunk Slack Plate with Rear Cover – 2 RU.
FLEX-PLATE4UPR*	HD Flex™ Patch Panel Trunk Slack Plate with Rear Cover – 4 RU.
FLEX-CLIP12	HD Flex™ Trunk Transition Clip (quantity 2); 12 position.
FLEX-CM12S	HD Flex™ Universal Rear Cable Manager includes (2) FLEX-CLIP12.
FLEX-CM-1UB	HD Flex™ Universal Expandable Cable Management Bracket (front to back of cabinet or 4 post rack).
FLEX-CM-1UBKIT	HD Flex™ Cable Management 1 RU Universal Bracket 19" Kit (2 FLEX-CM-1UB and horizontal strain relief bar).

\*Offered in White (add W to part number for White).

### HD Fusion Splicing Enclosure and Accessories



FRMHSS-4RU



FWMHSSGS-3456



FWMHSSGS-6912

Part Number	Description
FRMHSS-4RU	HD Fusion - fiber rack mount hyperscale splicing solution 4 RU that can splice up to 576 single fibers and 864 ribbon fibers. Splice trays sold separately.
FWMHSSGS-3456	Fiber Wall Mount Hyper Scale Splicing Enclosure With Split Doors, Gray, 3456 Fibers.
FWMHSSGS-6912	Fiber Wall Mount Hyper Scale Splicing Enclosure With Split Doors, Gray, 6912 Fibers.
FWMHSS-CG3448	Cable gland, 34mm x 48mm.
FWMHSS-CG613	Cable gland, 6mm x 13.9mm.
FST48	Fiber splice tray kit for up to 48 mechanical or fusion splices for use in Panduit FRMHSS-4RU.
FST144R	Fiber splice tray kit for up to 144 ribbon fusion splices for use in Panduit FRMHSS-4RU.
FWMHSS-CG1321	Cable gland, 13mm x 21mm.
FWMHSS-CG2135	Cable gland, 21mm x 35mm.
FWMHSSG-12X32	Fiber Wall Mount Enclosure, Top and Side Covers with 12 x 32mm openings, Gray.
FWMHSSG-GROUND	Fiber Wall Mount Enclosure Grounding Bracket, Gray.
FWMHSSG-ICB	Fiber Wall Mount Enclosure Incoming Cable Bracket Kit, Gray.
FWMHSSG-ICP	Fiber Wall Mount Enclosure Incoming Cable Plate Kit, Gray.
FWMHSSG-STOR	Fiber Wall Mount Enclosure Storage Box, Gray.
FWMHSS-ICAK	Fiber Wall Mount Enclosure Incoming Cable Anchor Kit.

## Opticom® QuickNet™ Rack Mount Fiber Cassette Enclosures

- Support up to 96 LC fiber connections per RU
- Mount to standard 19" rack rails
- Hold QuickNet™ Fiber Optic Cassettes for Opticom® Fiber Adapter Panels
- Suitable for all pre-terminated, field-terminated, or field-splice applications
- Slide-out, tilt-down drawer provides full front access to all fibers and cables
- Integral bend radius control and cable management for fiber patch cords
- Innovative rear cable management for proper slacking/spooling
- Multiple cable entry locations



Part Number	Description	Cassette/FAP/FOSM Openings
<b>BEST SELLER</b> FCE1U**	Rack mount fiber enclosure 1 RU, with sliding/tilt drawers.	4
FCE1UA**	Rack mount fiber enclosure 1 RU, open access.	
<b>BEST SELLER</b> FCE2U**	Rack mount fiber enclosure 2 RU, with sliding/tilt drawers.	8
<b>BEST SELLER</b> FCE4U**	Rack mount fiber enclosure 4 RU, with sliding/tilt drawers.	12

\*\*Offered in White (add WH to part number for White).

## Opticom® QuickNet™ Rack Mount Fiber Enclosures

- Supports up to 96 LC fiber connections per RU
- Mount to standard 19" or 23" EIA rack or cabinet
- Hold QuickNet™ or Opticom® Fiber Adapter Panels (FAPs)
- Front and rear access on all models via durable molded-hinge doors
- Integral bend radius control and cable management for fiber patch cords
- Multiple trunk cable entry locations
- Include fiber optic cable routing kit (grommets, cable ties, saddle clips, strain relief bracket, and ID/caution labels) for various cable management solutions
- Extends 4.9" from rack



Part Number	No. of Rack Spaces	Cassette/FAP/FOSM Openings
FRME1U	1	3
FRME2U	2	6
FRME3	3	9
FRME4	4	12

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### Opticom® QuickNet™ Wall Mount Enclosures

- Holds Opticom® Fiber Adapter Panels (FAP's)
- Rugged all metal construction for fiber protection and secure mounting
- Compact design allows installation in tight areas
- Separate doors for service side and user side with optional keyed locks for added security includes fiber optic routing kit (grommets, cable ties, spools, strain relief bracket and ID/caution labels) for various cable management solutions



FWME2

Part Number	FAP/FMP Openings
<b>BEST SELLER</b> FWME2	2
<b>BEST SELLER</b> FWME4	4
FWME8	8

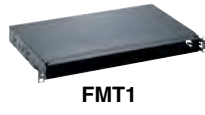
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### Opticom® Rack Mount Fiber Trays

- Supports up to 96 LC fiber connections per RU
- Mount to standard EIA 19" rack rails
- Use with Opticom® Fiber Adapter Patch Panels (page C.18) to protect fibers and terminations
- Can be used as a back box for select Mini-Com® Patch Panels
- Removable top cover provides access to connections, fibers, and slack storage in rear of tray
- Multiple trunk cable entry locations provided on rear and sides of enclosure
- Includes fiber optic cable routing kit (grommets, cable ties, spools, strain relief bracket and ID/caution labels) for various cable management solutions
- Utilizes accessory kit, FMTDKIT



FMT1



FMT2

Part Number	Description	Cassette/FAP/FMP Openings
<b>Standard Fiber Mount Trays</b>		
FMT1**	Mount with 1 CFAPPBL1 fiber adapter patch panel.	4
<b>BEST SELLER</b> FMT2	Mount with 2 CFAPPBL1 fiber adapter patch panels.	8

\*\*Offered in White (add WH to part number for White).

E. Audio Video Systems

F. Keystone Cabling Systems

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

H. Power Management

### Opticom® Rack Mount Fiber Drawers

Part Number	Description
<b>BEST SELLER</b> FMD1	Rack Mount Fiber Drawer 1 RU.
<b>BEST SELLER</b> FMD2	Rack Mount Fiber Drawer 2 RU.
FMS1	Fiber Management Slack Spool Kit (2 Per Bag)
FD1W12AQDLCZ	Pre-loaded fiber drawer with 12 aqua OM3/OM4 duplex 50µm LC Adapters (Zirconia Sleeve).
FD1W12AQDSCZ	Pre-loaded fiber drawer with 12 aqua OM3/OM4 duplex 50µm SC Adapters (Zirconia Sleeve).
FD1W12BUDLCZ	Pre-loaded fiber drawer with 24 blue OS1/OS2 duplex 50µm LC Adapters (Zirconia Sleeve).
FD1W12BUDSCZ	Pre-loaded fiber drawer with 24 blue OS1/OS2 duplex 50µm LC Adapters (Zirconia Sleeve).
FD1W24AQDLCZ	Pre-loaded fiber drawer with 24 aqua OM3/OM4 duplex 50µm LC Adapters (Zirconia Sleeve).
FD1W24AQDSCZ	Pre-loaded fiber drawer with 24 aqua OM3/OM4 duplex 50µm SC Adapters (Zirconia Sleeve).
FD1W24BUDLCZ	Pre-loaded fiber drawer with 24 blue OS1/OS2 duplex 9µm LC Adapters (Zirconia Sleeve).
FD1W24BUDSCZ	Pre-loaded fiber drawer with 24 blue OS1/OS2 duplex 9µm SC Adapters (Zirconia Sleeve).



FMD1



FMD2

I. Cable Management Accessories

J. Cable Routing Systems

K. Surface Raceway

L. Part Number Index

## Opticom® Fiber Adapter Patch Panels

- Mount to standard EIA 19" rack rails
- Standard version holds both QuickNet™ Fiber Optic Cassettes and Opticom® Fiber Adapter Panels
- Use with Opticom® Rack Mount Fiber Trays to protect fibers and terminations, see page C.18



CFAPPBL1



CFAPPBL2

Part Number	No. of Rack Spaces	Cassette/FAP/FMP Openings
<b>Standard Flat Fiber Adapter Patch Panels</b>		
CFAPPBL1	1	4
CFAPPBL2	2	8

## Opticom® QuickNet™ MPO Fiber Optic Cassettes

- Compatible with Opticom® Rack Mount Cassette Enclosures, Wall Mount Enclosure, Fiber Trays, and Adapter Patch Panels
- Supports up to 96 LC fiber connections per RU
- Low insertion loss of 0.75 dB for standard cassette, 0.5 dB for optimized cassette, and 0.35 dB for ultra cassette
- Return loss >26 dB (multimode) and >55 dB (singlemode)
- Adapter housing colors follow ANSI/TIA-568.3-D suggested color scheme
- Factory terminated, assembled, and 100% tested
- Performance test data provided with each cassette
- Lifetime traceability of test data to a QC number on each fiber cassette
- 4-to-1 conversion cassettes split MPO parallel optics signals into 4 discrete channels on duplex LCs - 40G MPO to (4)10G LC, and 100G MPO to (4) 25G LC

Part Number	Fiber Type	Fiber Count	No. of MPOs	No. of Duplex LCs	Performance	Polarity		
<b>12 Fiber LC Cassettes</b>								
FC29N-12-10AF	OS2	12	1x12f	6	Standard	Modified Method A (Pair Flipped)		
FC29N-12-10AS						Method A		
FC29N-12-10U						Universal		
FC2SA-12-10U	OM4+				OM5	Ultra	Ultra	Method B End 1
FC2WA-12-10B1	Method B End 2							
FC2WA-12-10B2	OM3				Standard	Standard	Standard	Universal
FC2XN-12-10U								
FC2XO-12-10U								
FC2ZA-12-10U	OM4				Standard	Standard	Standard	Universal
FC2ZN-12-10AS								
FC2ZO-12-10AF								
FC2ZO-12-10AS								
FC2ZO-12-10U								
FC2ZO-12-10U	Optimized	Optimized	Optimized	Optimized	Universal			



FC2XN-12-10U



FC2WA-12-10B1

### Opticom® QuickNet™ MPO Fiber Optic Cassettes (continued)

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FC2XN-24-10U



FC29N-24-10AS

Part Number	Fiber Type	Fiber Count	Port Count	No. of MPOs	Performance	Polarity	
<b>24 Fiber LC Cassettes</b>							
FC29N-24-10AF	OS2	24	2x12f	12	Standard	Modified Method A (Pair Flipped)	
FC29N-24-10AS						Method A	
FC29N-24-10U						Universal	
FC2SA-24-10U	OM4+					Ultra	Method B End 1
FC2WA-24-10B1	OM5						Method B End 2
FC2WA-24-10B2							
FC2XN-24-10U	OM3				Standard	Universal	
FC2XO-24-10U						Optimized	
FC2ZA-24-10U						Ultra	
FC2ZN-24-10AF	OM4					Standard	Modified Method A (Pair Flipped)
FC2ZN-24-10AS							Method A
FC2ZO-24-10AF							Modified Method A (Pair Flipped)
FC2ZO-24-10AS		Method A					
FC2ZO-24-10U		Standard	Universal				

### Opticom® Fiber Optic Splice Cassettes



FCS9N-12-10P

Part Number	Fiber Type	Pigtails	Connector	Performance
FCS9N-12-03P	OS2	250µm Pigtails	SC	Standard
FCS9N-12-03R		Ribbon		
FCS9N-12-10P		250µm Pigtails	LC	
FCS9N-12-10R		Ribbon		
FCSZO-12-10P	OM4	250µm Pigtails		Optimized

## Opticom® MPO Fiber Optic Adapter Panels (FAPs)

- Populated with TIA/EIA-604 FOCIS-5 compliant adapters
- Exceed ANSI/TIA-568.3-D requirements
- Designed for multimode or singlemode MPO connectors, patch cords, or cable assemblies
- Snap quickly into the front of all Opticom® QuickNet™ Components
- Can be used with Opticom® Zero RU Cable Management Solutions and QuickNet™ Harness Cable Assemblies to facilitate connection to the active equipment



FAPH0412BLMPO



FAPH1224RDMPO

Part Number	No. of Adapters	Adapter Type	Polarity	Color	Orientation
<b>MPO Opticom® Fiber Adapter Panels (FAPs)</b>					
FAPH0412BLMPO	4	12f MPO	Method A, Key-Up/Key-Down	Black	Horizontal
FAPH0612BLMPO	6				
FAPH0812BLMPO	8				
FAPH1212BLMPO	12				
FAPH0412CGMPO	4				
FAPH0612CGMPO	6	24f MPO	Method B, Key-Up/Key-Up	Charcoal Gray	Horizontal
FAPH0812CGMPO	8				
FAPH1212CGMPO	12				
FAPH0424RDMPO	4				
FAPH0624RDMPO	6				
FAPH0824RDMPO	8	24f MPO	Method A, Key-Up/Key-Down	Red	Horizontal
FAPH1224RDMPO	12				

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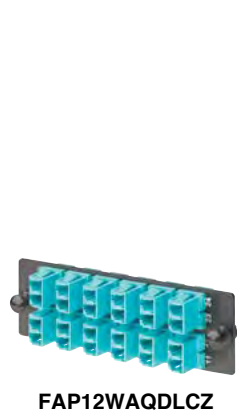
J. Cable Routing Systems

K. Surface Raceway

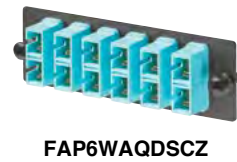
L. Part Number Index

### Opticom® Fiber Adapter Panels (FAPs)

- Populated with TIA/EIA-604 FOCIS-10 or TIA/EIA-604 FOCIS-3 compatible adapters
- Exceed ANSI/TIA-568.3-D requirements
- Adapter housing colors follow ANSI/TIA-568.3-D suggested color identification scheme
- Snap quickly into the front of all Opticom® Components



Part Number	No. of Ports	Adapter Type	Color	Split Sleeve	Fibers
<b>LC Fiber Adapter Panels</b>					
<b>BEST SELLER</b> FAP6WAQDLCZ	6	Duplex LC	Aqua	Zirconia	12
FAP8WAQDLCZ	8				16
<b>BEST SELLER</b> FAP12WAQDLCZ	12				24
<b>BEST SELLER</b> FAP6WBUDLCZ	6		Blue		12
FAP8WBUDLCZ	8				16
<b>BEST SELLER</b> FAP12WBUDLCZ	12				24
FAP6WAGDLCZ	6	Duplex LC/ APC	Green	12	
FAP12WAGDLCZ	12			24	
<b>BEST SELLER</b> FAP12WBULCZ	12	Simplex LC	Blue		24



<b>SC Fiber Adapter Panels</b>					
FAP3WAQDSCZ	3	Duplex SC	Aqua	Zirconia	6
FAP6WAQDSCZ	6				12
FAP3WBUDSCZ	3		Blue		6
FAP6WBUDSCZ	6				12
FAP3WAGDSCZ	3	Duplex SC/APC	Green		6
FAP6WAGDSCZ	6				12
FAP12WBUSCZ	12	Simplex SC	Blue		24
FAP12WAGSCZ	12	Simplex SC/APC	Green		24

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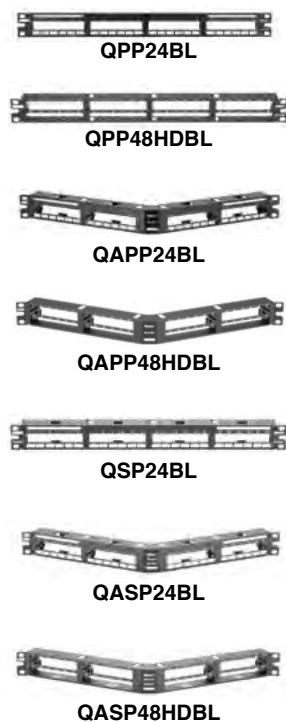
## Opticom® Accessories and Splice Solutions



Part Number	Description
FAPB	Blank fiber adapter panel.
FLEX-OPTI-1RU	HD Flex™ Bracket Adapter for Opticom® Enclosures houses 2 HD Flex™ Cassettes.
FOSMF	Splice module holds and protects up to 24 fusion splices for use with Panduit Opticom® Enclosures (see page C.17).
FOSMH1U	Splice module holder 1 RU holds up to 4 FOSM splice modules for use with Panduit FCE1U or FCE1UA.
FOSMH2U	Splice module holder 2 RU holds up to 8 FOSM splice modules for use with Panduit FCE2U.
FOSMH4U	Splice module holder 4 RU holds up to 12 FOSM splice modules for use with Panduit FCE4U.
FST24	Fiber splice tray kit for up to 24 mechanical or fusion splices or 144 ribbon fusion splices for use in Panduit FRME3 and FRME4.
FST6	Fiber splice tray kit for up to 12 mechanical or fusion splices for use in Panduit FMT, FWME4 and FWME8.
FSTHE	Stacking holder for FST6 holds and secures up to 4 FST6.
FSTK	Fiber splice tray kit for up to 6 mechanical or fusion splices for use in Panduit FWME2.
FSTHS	Stacking holder for FSTK holds and secures up to 2 FSTK.
FSC24	Fiber splice chip holder accommodates and protects up to 24 fusion splices for use with any Panduit® Opticom® Enclosure.

## QuickNet™ Patch Panels and Accessories

- Accept QuickNet™ Copper Cable Assemblies and QuickNet™ SFQ Series MTP Fiber Optic Cassettes which snap in and out with one hand
- High-density patch panels conserve valuable rack space
- Angled patch panels facilitate proper bend radius control and minimize the need for horizontal cable managers
- All metal patch panels accept shielded cassettes, no additional grounding kit required
- Pre-printed numbers above each port for easy identification
- Mount to standard EIA 19" racks or 23" racks with optional extender brackets



Part Number	Ports	No. of Rack Spaces	Style
<b>QuickNet™ Unshielded Patch Panels</b>			
QPP24**	24	1	Flat
QPP48HD**	48		
QAPP24**	24		Angled*
QAPP48HD**	48		
<b>QuickNet™ Shielded Patch Panels</b>			
QSP24**	24	1	Flat
QSP48HD**	48		
QASP24**	24		Angled*
QASP48HD**	48		

\*\*Colors available: Black (BL), White (WH).

A. Product Showcase

### QuickNet™ Patch Panels and Accessories

B. Copper Systems



#### QuickNet™ Accesories

Part Number	Part Description
QPPABL	QuickNet™ Patch Panel Adapter which accepts Mini-Com® Modules for UTP, fiber optic, and audio/visual applications.
QPPBBL	QuickNet™ Patch Panel Blank reserves space for future use and promotes proper airflow and cooling.

C. Fiber Systems

D. Industrial Networks

### QuickNet™ SFQ MPO Fiber Optic Cassettes

- Compatible with QuickNet™ patch panels for up to 96 LC fiber connections in a single RU
- Low insertion loss of 0.75 dB for standard cassettes, 0.50 dB for optimized cassettes, and 0.35 dB for ultra cassettes
- Significantly reduce installation time and labor by eliminating field connector terminations
- Connect together with high-density female MPO cable assemblies/trunks to quickly deploy DC network segments
- Factory terminated, assembled and 100% tested
- Performance test data provided with each cassette
- Lifetime traceability of test data to a QC number on each fiber cassette

E. Audio Video Systems

F. Keystone Cabling Systems



FQXO-12-10U

Part Number	Fiber Type	Fiber Count	No. of MPOs	No. of Duplex LCs	Performance	Polarity	
FQ9N-12-10AF	OS2	12	1x12f	6	Standard	Modified Method A (Pair Flipped)	
FQ9N-12-10AS						Method A	
FQ9N-12-10U						Universal	
FQSA-12-10U	OM4+					Ultra	Method B End 1
FQWA-12-10B1	OM5						Method B End 2
FQWA-12-10B2	OM3					Optimized	Universal
FQZN-12-10AF	OM4				Standard	Modified Method A (Pair Flipped)	
FQZN-12-10AS						Method A	
FQZO-12-10AF						Optimized	Modified Method A (Pair Flipped)
FQZO-12-10AS							Method A
FQZO-12-10U							Universal

H. Power Management

I. Cable Management Accessories

J. Cable Routing Systems

### QuickNet™ SFQ 4-to-1 Conversion Cassettes



FQ39N-08-10A

Part Number	Fiber Type	Fiber Count	Port Count	No. of MPOs	No. of Duplex Connectors	Performance
<b>BEST SELLER</b> FQ3ZO-08-10B	OM4	8	4	1x12f	4	Optimized
<b>BEST SELLER</b> FQ39N-08-10A	OS2					Standard

K. Surface Raceway

L. Part Number Index

## QuickNet™ MPO Fiber Adapter Panels (FAPs)

- Factory assembled, and 100% tested
- Compatible with QuickNet™ Patch Panels
- Adapter housing colors follow ANSI/TIA-568.3-D suggested color identification scheme
- Significantly reduce installation time and labor by eliminating field connector terminations



FQMAP45BL



FQMAP65BL



FQMAP85RD

Part Number	No. of Adapters	Adapter Type	Polarity	Color
<b>QuickNet™ MPO Fiber Adapter Panels (FAPs)</b>				
FQMAP45BL	4	12f MPO	Method A, Key-Up/ Key-Down	Black
FQMAP65BL	6			
FQMAP85BL	8			
FQMAP46CG	4	12f MPO	Method B, Key-Up/ Key-Up	Charcoal Gray
FQMAP66CG	6			
FQMAP86CG	8			
FQMAP45RD	4	24f MPO	Method A, Key-Up/ Key-Down	Red
FQMAP65RD	6			
FQMAP85RD	8			

Part Number	Description
<b>QuickNet™ Accessories</b>	
QPPABL	QuickNet™ Patch Panel Adapter which accepts Mini-Com® Modules facilitating the use of fiber, copper, and A/V in a single RU.
QPPBBL	QuickNet™ Patch Panel Blank reserves space for future use and promotes proper airflow and cooling.
FQCRCM	QuickNet™ Cassette Rear Cable Manager



QPPABL



QPPBBL



FQCRCM

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### Fiber Optic Interconnect Assemblies

- PanMPO™ Multimode and MPO Singlemode Interconnect Cable Assemblies are pre-terminated and 100% factory tested
- Test results are provided with each assembly
- The 3.0mm round interconnect cable provides high flexibility and tight bend radius for easy installation and cable management
- The PanMPO™ Connector allows rapid gender and polarity change in the field
- Meets or exceeds ANSI/TIA-568.3-D and TIA/EIA-604 (FOCIS-5)
- RoHS Compliant



**FX8RPJNJNYNF010**



**F98RPGNGNANF010**



**FXURPENENXNF010**



**F9URPENENANF010**

Part Number	Fiber Type	Fiber Count	Connector Type	Performance/ Polarity	Length
<b>8 and 12 Fiber Interconnects</b>					
FX8RPJNJNYNF010	OM3	8	8f Female PanMPO to 8f Female PanMPO	Method B/ Optimized IL	10 feet
FXTRP7N7NYNM003		12	12f Female PanMPO to 12f Female PanMPO		3 meters
FZ8RPJNJNYNF010	OM4	8	8f Female PanMPO to 8f Female PanMPO	Method A/ Ultra IL	10 feet
FZTRP7N7NYNM003		12	12f Female PanMPO to 12f Female PanMPO		3 meters
FSTRP7N7NKNM003	OM4+	12	12f Female PanMPO to 12f Female PanMPO	Method B/ Ultra IL	10 feet
FWTRP7N7NLNF010	OM5				
F98RPGNGNANF010	OS2	8	8f Female MPO to 8f Female MPO	Method A/ Standard IL	10 feet
F9TRP5N5NANF010		12	12f Female MPO to 12f Female MPO		

Part Number	Fiber Type	Fiber Count	Connector Type	Performance/ Polarity	Length Ft.
<b>24 Fiber Interconnects</b>					
FXURPENENXNF010	OM3	24	24f Female MPO to 24f Female MPO	Method A/ Optimized IL	10
FZURPENENXNF010	OM4				
F9URPENENANF010	OS2			Method A/ Standard IL	

## Active Optical Cable (AOC) Assemblies

- SFF-8419, SFF-8431, SFF-8432, SFF-8472, SFF-8636, SFF-8661, SFF-8679 compliant, so they are compatible with all active equipment with MSA compliant ports
- Small diameter cable, 3mm PVC rated jacket
- Can be used in a variety of applications including Leaf to Spine Switches and End of Row / Top of Rack Switch to Server
- Fiber features a smaller cable diameter for high density applications

### SFP28 to SFP28 Assemblies



Part Number	Fiber Type	Data Rate	Color	Length m***
AX23NS2S2AQM***	OM3	25G	Aqua	1 (001), 2 (002), 3 (003), 5 (005), 7 (007), 10 (010), 15 (015), 20 (020), 25 (025), 30 (030)

### SFP+ to SFP+ Assemblies



Part Number	Fiber Type	Data Rate	Color	Length m***
AX23NSPSPAQM***	OM3	10G	Aqua	1 (001), 2 (002), 3 (003), 5 (005), 7 (007), 10 (010), 15 (015), 20 (020), 25 (025), 30 (030)

### QSFP+ to QSFP+ Assemblies



Part Number	Fiber Type	Data Rate	Color	Length m***
AX83NQPQPAQM***	OM3	40G	Aqua	1 (001), 2 (002), 3 (003), 5 (005), 7 (007), 10 (010), 15 (015), 20 (020), 25 (025), 30 (030)

### QSFP28 to QSFP28 Assemblies



Part Number	Fiber Type	Fiber Count	Performance/ Polarity	Length m***
AX83Q2Q2AQM***	OM4	100G	Aqua	1 (001), 2 (002), 3 (003), 5 (005), 7 (007), 10 (010), 15 (015), 20 (020), 25 (025), 30 (030)

### QSFP+ to SFP+ Breakouts



Part Number	Fiber Type	Fiber Count	Performance/ Polarity	Length m***
AX83NQPSPAQM***	OM3	40-4x10G	Aqua	1 (001), 2 (002), 3 (003), 5 (005), 7 (007), 10 (010), 15 (015), 20 (020), 25 (025), 30 (030)

### QSFP28 to SFP28 Breakouts



Part Number	Fiber Type	Fiber Count	Performance/ Polarity	Length m***
AZ83NQ2S2AQM***	OM4	100-4x25G	Aqua	1 (001), 2 (002), 3 (003), 5 (005), 7 (007), 10 (010), 15 (015), 20 (020), 25 (025), 30 (030)

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A. Product Showcase

### Fiber Optic Trunk Cable Assemblies

- Small Diameter Trunk Cable Assemblies allow for rapid deployment of high-density permanent links
- Optimize cable routing requirements to ensure efficient use of pathway space
- Significantly reduce installation time and cost
- 100% factory tested
- Test results are provided with each trunk
- The PanMPO™ Connector allows for rapid gender and polarity change in the field
- ISO/IEC 11801, ANSI/TIA-568.3-D, TIA/EIA-604 (FOCIS-5), GR-409-CORE, ANSI/CEA S-83-596-2016
- RoHS Compliant
- Standard 1 meter breakout length

B. Copper Systems

C. Fiber Systems

### HD Flex™ Indoor Small Diameter Trunks



FYZTP77Y001F015

Part Number	Fiber Type	Fiber Count	Connector Type	Flame Rating	Polarity	Performance	Pulling Eye	Length Ft.
FY9TP77A001F015	OS2	12	PanMPO Female with 1m breakout to PanMPO Female with 1m breakout	Plenum	Polarity A	Standard IL	Pulling Eye End A	15
FY9UP77A001F015		24						
FY9WP77A001F015		48						
FYXTP77Y001F015	OM3	12			Polarity B	Optimized IL		
FYXUP77Y001F015		24						
FYXWP77Y001F015		48						
FYZTP77Y001F015	OM4	12						
FYZUP77Y001F015		24						
FYZWP77Y001F015		48						

D. Industrial Networks

E. Audio Video Systems

F. Keystone Cabling Systems

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

### 12 Fiber Indoor Trunk Pigtails



FXTSR17NNSNM001

Part Number	Fiber Type	Connector Type (with 18-inch breakout)	Flame Rating	Performance	Pulling Eye	Length m
F9TSR17NNSNM001	OS2	LC Simplex to Pigtail	Riser	Standard IL	No Pulling Eye	1
F9TSR37NNSNM001		SC Simplex to Pigtail				
FXTSR17NNSNM001	OM3	LC Simplex to Pigtail				
FXTSR37NNSNM001		SC Simplex to Pigtail				

H. Power Management

I. Cable Management Accessories

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Like what you see...  
and want more?

For more Fiber Trunk options, visit  
[www.panduit.com/configure-fiber-trunk](http://www.panduit.com/configure-fiber-trunk).

## Fiber Optic Patch Cord and Pigtail Assemblies

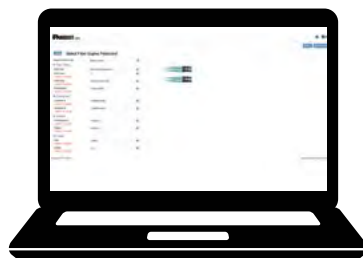
- Fiber optic patch cords and pigtails provide interconnect and cross-connect of applications over installations in entrance facilities, telecommunications rooms, data centers and at the desk
- Patch cords support network applications in main, horizontal and equipment distribution areas and are available in riser (OFNR) or plenum (OFNP)
- Pre-terminated fiber optic pigtails support fusion splice field termination applications. Fiber optic patch cords and pigtails are available in OM4, OM3, or OS2 fiber types
- Meets or exceeds ISO/IEC 11801, ANSI/TIA-568.3-D, TIA/EIA-604 (FOCIS-3 and FOCIS-10)
- Restriction of Hazardous Substances (RoHS) Compliance: All patch cord components meet the requirements of Directive 2002/95/EC

## Zip Cords



Part Number	Fiber Type	Connector Type	Fiber Count	Jacket mm	Flame Rating	Performance	Length m						
<b>BEST SELLER</b> FX2ERLNLNSNM001	OM3	LC Duplex to LC Duplex	2	1.6	Riser	Standard IL	1						
FX2ERLNSNSNM001		LC Duplex to SC Duplex											
FX23RSNSNSNM001		SC Duplex to SC Duplex											
FZ2ERLNLNSNM001	OM4	LC Duplex to LC Duplex	2	1.6				Riser	Standard IL	1			
FZ2ERLNSNSNM001		LC Duplex to SC Duplex											
<b>BEST SELLER</b> FZ23RSNSNSNM001		SC Duplex to SC Duplex											
<b>BEST SELLER</b> F92ERLNLNSNM001	OS2	LC Duplex to LC Duplex	2	1.6							Riser	Standard IL	1
F92ERLNSNSNM001		LC Duplex to SC Duplex											
F92ERB1LNSNM001		LC/APC to LC Duplex											
F92ERB1B1SNM001		LC/APC to LC/APC		3									
F92ERB1SNSNM001		LC/APC to SC Duplex											
F923RSNSNSNM001		SC Duplex to SC Duplex											
F923RANSNSNM001		SC/APC Duplex to SC Duplex		1.6									
F923RANANSNM001		SC/APC Duplex to SC/APC Duplex											
F92ERANB1SNM001		SC/APC to LC/APC											

\*All patch cords available in lengths 1 meter through 50 meters.



**Like what you see...  
and want more?**

For more Fiber Patch Cord options, visit  
[www.panduit.com/configure-fiber-patch-cord](http://www.panduit.com/configure-fiber-patch-cord).

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### Uniboot Patch Cords

B. Copper Systems



Part Number	Fiber Type	Connector Type	Fiber Count	Jacket mm	Flame Rating	Performance	Length m*
FZ2RPU1U1ONM001	OM4	LC Uniboot to LC Uniboot	2	2	Plenum	Optimized IL	1
F92RPU1U1ONM001	OS2						
F92RPU2U2ONM001	OS2	LC/APC Uniboot to LC/APC Uniboot					

\*All patch cords available in lengths 1 meter through 50 meters.

C. Fiber Systems

### CS Connector Patch Cords

D. Industrial Networks



Part Number	Fiber Type	Connector Type	Fiber Count	Jacket mm	Flame Rating	Performance	Length m*
FZ2RPZLNONM001	OM4	CS to CS	2	2	Plenum	Optimized IL	1
F92RPZLNONM001	OS2						

FZ2RPZLNONM001

\*All patch cords available in lengths 1 meter through 50 meters.

E. Audio Video Systems

F. Keystone Cabling Systems

**Like what you see...and want more?**

For more Fiber Patch Cord options, visit [www.panduit.com/configure-fiber-patch-cord](http://www.panduit.com/configure-fiber-patch-cord).

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

### Pigtails

H. Power Management



F91BN1NNSNM001

Part Number	Fiber Type	Connector Type	Fiber Count	Jacket	Flame Rating	Performance	Length m
FX1BN1NNSNM001	OM3	LC to Pigtail	1	No Jacket	Not Rated	Standard IL	1
FXTBN1NNSZM001			12				
FX1BN3NNSNM001		SC Simplex to Pigtail	1				
FZ1BN1NNSNM001	OM4	LC to Pigtail	1				
FZTBN1NNSZM001			12				
FZ1BN3NNSNM001		SC Simplex to Pigtail	1				
F91BN1NNSNM001	OS2	LC to Pigtail	1	No Jacket	Not Rated	Standard IL	2
F91BN1NNSNM002			1				3
F91BN1NNSNM003			1				
F96BN1NNSZM001		6	1				
F9TBN1NNSZM001	12						
F91BNB1NNSNM001	LC/APC to Pigtail	1					
F91BN3NNSNM001	SC Simplex to Pigtail						
F91BNANNNSNM001	SC/APC to Pigtail						

I. Cable Management Accessories



F9TBN1NNSZM001

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**Like what you see...and want more?**

For more Fiber Pigtail options, visit [www.panduit.com/configure-fiber-pigtail](http://www.panduit.com/configure-fiber-pigtail).



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### IndustrialNet™ Copper Cable

- Cable has been tested by an independent laboratory and complies with the electrical standard requirements of ISO11801 and ANSI/TIA-568.2-D
- UL Approved
- Industrial rated cable for reliable performance in harsh environments
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap
- Packaged on a reel

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ISFCH6X04ATL-UG



ISX6004AYL-LED



ISFCH5C04ATL-XG

Part Number	Performance Level	AWG	Description	Color
PSM7004BU-KEM	Category 7	23	4-Pair, Stranded, S/FTP, LSZH, IEC 60332-3c	Blue
ISFCH6X04ATL-UG	Category 6A	24	4-Pair, Stranded, SF/UTP, 600 V, CMX	Teal
ISFCH6X04BTL-UG		26		
ISX6004AYL-LED	Category 6	24	4-Pair, Stranded, S/FTP, High Flex, Flame Retardant	Yellow
IFRH6C04BL-UG		23		
ISFCH5C02ATL-XG	Category 5e	24	2-Pair, Stranded, SF/UTP, 600 V, High Flex, Flame Retardant, CM/CMX	Teal
ISFCH5C04ATL-XG			4-Pair, Stranded, SF/UTP, 600 V, High Flex, Flame Retardant, CM/CMX	

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### Indoor/Outdoor Dielectric Double Jacketed (DDJ) Fiber Cable



FOJDZ12 FSJD912

Part Number	Performance Level	Fiber Count	Description
FOJDZ12	OM4	12	50µm, Indoor/Outdoor DDJ cable, Riser (OFNR-LS), LSZH
FSJD912	OS2		9µm, Indoor/Outdoor DDJ cable, Riser (OFNR-LS), LSZH

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## IndustrialNet™ RJ45 Copper Patch Cords

- Patch cords have been tested by an independent laboratory and comply with the electrical standard requirements of IEC 60603-7 and ANSI/TIA-568.2-D
- Variant 1 bulkhead patch cords meet IP67 when mated to IP67 IndustrialNet™ Connectors
- Industrial rated patch cord for reliable performance in harsh environments
- Category 5e 600 V rated patch cords provide reliable performance for panel or on-machine applications when space is shared with 600 V high voltage power cables



ISTPSP5MBL



ISTPHCH3MTL

Part Number	Performance Level	AWG	Description	Color	Length m
ISTPH6X0.3MTL	Category 6A	26	Shielded, Stranded, SF/UTP, 600 V Patch Cord, RJ45 Plug to RJ45 Plug	Teal	0.3
ISTPH6X1MTL					1
ISTP6X2MBL					2
ISTPH6X2MTL	Shielded, Stranded, S/FTP Patch Cord with Caps	Black			
ISTPSP5MBL	Category 6		Shielded, Stranded, SF/UTP, 600 V Patch Cord, RJ45 Plug to RJ45 Plug	Teal	2
ISTPHCH0.6MTL	Category 5e	24	Shielded, Stranded, S/UTP Patch Cord. Includes Dust Caps	Black	0.6
<b>BEST SELLER</b> ISTPHCH1MTL					1
<b>BEST SELLER</b> ISTPHCH2MTL					2
ISTPHCH3MTL					3
<b>BEST SELLER</b> ISTPHCH5MTL					5
ISTPHCH10MTL					10

## IndustrialNet™ Copper Connectors

- IP/NEMA/UL/CE rated to ensure reliable performance in harsh factory environments
- Extended temperature range provides durable connections in extreme conditions
- Factory terminated design assures reliability and saves time
- Optional RJ45 connector speeds deployment



ICAM12X90RJS



ISPS6A88MFA



IAEBH6XS



MPI588T

Part Number	Performance Level	Description
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### M12 Connectors

ICAM12XRJS	Category 6A	M12 X-Code Shielded to RJ45 Industrial Adapter, Panel Mount.
ICAM12X90RJS		M12 X-Code Shielded to RJ45 Industrial Adapter, 90° Angle, Panel Mount.
ISPS6A88MFA		M12 X-Code Shielded Field Terminable Connector, Male.
ISPS5E44MFA	Category 5e	M12 D-Code Shielded Field Terminable Connector, Male.
ICAM12DRJS		M12 D-Code Shielded to RJ45 Industrial Adapter, Panel Mount.

### Industrial Bulkhead Connector with Protective Cover

IAEBH6X	Category 6A	Variant 1 IP67 RJ45 Connector.
IAEBH6XS		Shielded Variant 1 IP67 RJ45 Connector.
IAEBH6	Category 6	Variant 1 IP67 RJ45 Connector.
IAEBH6S		Shielded Variant 1 IP67 RJ45 Connector.
<b>BEST SELLER</b> MPI588T	Category 5e	Variant 1 IP67 Modular Plug.
MPSI588T		Shielded Variant 1 IP67 Modular Plug.
IAEBH5E		Variant 1 IP67 RJ45 Connector.
IAEBH5ES		Shielded Variant 1 IP67 RJ45 Connector.

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### IndustrialNet™ Copper Connectors (continued)

- IP/NEMA/UL/CE rated to ensure reliable performance in harsh factory environments
- Factory terminated design assures reliability and saves time
- Extended temperature range provides durable connections in extreme conditions
- Optional RJ45 connector speeds deployment



IAEBHC5E

Part Number	Performance Level	Description
<b>Industrial Bulkhead Coupler with Protective Cover</b>		
IAEBHC6XS	Category 6A	Variant 1 IP67 RJ45 Coupler.
IAEBHC6	Category 6	
<b>BEST SELLER</b> IAEBHC5E	Category 5e	Shielded Variant 1 IP67 RJ45 Connector.
IAEBHC5ES		



IAEBHUSBAA

Part Number	Description
<b>Mini-Com® Coupler Module</b>	
IAEBHUSBAA	USB 2.0 Variant 1 IP67 Female A to Female A Coupler

### IndustrialNet™ Overmolded Cordsets

- IP/NEMA/UL/CE rated to ensure reliable performance in harsh factory environments
- Factory terminated design assures reliability and saves time
- TPE/TPU jackets protect cable, providing increased reliability in high-flex applications
- Extended temperature range provides durable connections in extreme conditions
- Rated to 10 million flex cycles
- Optional RJ45 connector speeds deployment



ICA3E13P2BL1M

Part Number	Pin	Termination End 1	Termination End 2	Jacket	Shielding	Color
<b>A-Code</b>						
ICA3E13P2BL1M	3	M8 Male Connector	M8 Female Connector	Polyurethane (PUR)	Unshielded	Black
ICA4E13P2BL1M	4					
ICA4T13P2BL1M	5	M12 Male Connector	M12 Female Connector			
ICA5T13P2BL1M						



ICD11T1TL1M



ICD22T1NTL1M

<b>D-Code, Category 5e, 600 V</b>						
ICD11T2NTL1M	4	M12 Male Connector	M12 Male Connector	Thermoplastic Elastomer (TPE)	Shielded	Teal
ICD11T1NTL1M			90° Male Connector			
ICD12T1NTL1M						
ICD13T1NTL1M			RJ45 Plug			
ICD14T1NTL1M	M12 90° Male Connector	M12 90° Male Connector	90° Male Connector			
ICD22T1NTL1M			90° Female Connector			
ICD26T1NTL1M			90° Female Connector			
ICD44T1NTL1M	M12 Female Bulkhead	RJ45 Plug				

### IndustrialNet™ Overmolded Cordsets (continued)

Part Number	Pin	Termination End 1	Termination End 2	Jacket	Shielding	Color
<b>X-Code, Category 6A, 600 V</b>						
ICX11T1NTL1M	8	M12 Male Connector	M12 Male Connector	Thermoplastic Elastomer (TPE)	Shielded	Teal
ICX14T1NTL1M			RJ45 Plug			
ICX44T1NTL1M		Female Connector				

### Industrial Accessories

- Modular design for easy DIN rail mounting
- Compact size and low profile saves valuable DIN rail space
- Easy installation - no special tools required
- Include labels for easy moves, adds and changes



CADIN1BL



CDPP8RG



FDME8RG

Part Number	Description	Color
<b>Mini-Com® DIN Rail Mount Adapter</b>		
<b>BEST SELLER</b>	Single-Port DIN Rail Mount Adapter.	Black
CADIN1BL		
CADIN1BL-S	Shielded Single-Port DIN Rail Mount Adapter.	
<b>IndustrialNet™ DIN Rail Mount Copper Patch Panel</b>		
<b>BEST SELLER</b>	8-Port Patch Panel, DIN Rail Mount.	International Gray
CDPP8RG		
CDPP8RG-S	Shielded 8-Port Patch Panel, DIN Rail Mount.	
<b>IndustrialNet™ DIN Rail Mount Fiber Enclosure</b>		
<b>BEST SELLER</b>	8-Port Fiber Optic Enclosure, DIN Rail Mount.	International Gray
FDME8RG		
<b>Fiber Termination Enclosure</b>		
FTE24A1A1	Pre-Configured 288 Fiber Termination Enclosure, Mild Steel.	-

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### Pre-Configured Micro Data Center (MDC)

- Pre-configured solution enables fast deployment of servers, storage, and switches for an industrial network
- Dynamic rated version ensures safe transport of IT equipment under typical shipping conditions
- Includes space for future expansion of server, storage, and related patching to allow for increased network capacity without requiring addition to control room footprint
- Bonded structure helps ensure network reliability and prevent equipment failure
- Integrated cable management with bend radius control maintains bandwidth through the network for increased uptime
- Reference architecture provides a physical map of the logical network layer following recommended installation practices to increase reliability



MDC82NN

Part Number	Height In. (mm)	Width In. (mm)	Depth In. (mm)	Description	No. of Rack Units	Color
MDC79D	79.8 (2026)	27.6 (700)	48.0 (1219.2)	Dynamic, Single Hinge Perforated Front Door, Split Perforated Rear Doors, Split Side Panels (2), Network Cabling, Patch Panels, Cable Management, Grounding, Casters, Shock Pallet and Ramp.	42	Black
MDC82NN	78.7 (2000)		47.2 (1198.9)	NEMA Type 12, IP55, Single Hinge Front Door with Windowed Glass, Single Hinge Rear Door, Solid Side Panels (2), Side Panel, Network Cabling, Patch Panels, Cable Management, Grounding, and Casters.		Light Gray
MDC82NL				NEMA Type 12, IP55, Single Hinge Front Door with Windowed Glass, Single Hinge Rear Door, Solid Side Panel (1), Side Panel with Cutout for 20k BTU AC (1), Network Cabling, Patch Panels, Cable Management, Grounding, and Casters.		

### NEMA 4X Wireless Security Enclosure



NWSE1412G

Part Number	Height In. (mm)	Width In. (mm)	Depth In. (mm)	Description	Color
NWSE1412G	14 (355.6)	12 (304.8)	6 (152.4)	Pre-installed, Pre-fabricated Backplane, 4CS-1/2 Electrical Box, Pole Mounting Bracket, 2 NEMA 4X Compression Fittings, Includes UTP Connectivity Kit.	Gray

### Wireless Access Point Enclosures

- Accommodates the most popular Wireless Access Points
- Fiberglass construction and aluminum mounting plate allows quick and easy access point installation
- Provisions for padlocks to protect against tampering and theft
- Include pre-configured mounting template and connectivity kit with 2-position outlet box, Mini-Com® TX6™ PLUS Jack Module, TX6™ PLUS Patch Cord, silicone sealant and grounding cable
- UL 508A Listed, NEMA 4X and IP66 Rated



PZNWE12

Part Number	Connectivity Kit	External Dimensions	Internal Dimensions
<b>Power over Ethernet Applications</b>			
PZNWE12	UTP	13.56" H x 13.47" W x 6.56" D (344.4mm x 342.1mm x 166.6mm)	11.70" H x 11.70" W x 6.29" D (297.2mm x 297.2mm x 159.8mm)
<b>Traditional AC Power Applications</b>			
PZNWE14	UTP	15.50" H x 13.50" W x 6.25" D (393.7mm x 342.9mm x 158.8mm)	13.53" H x 11.55" W x 5.94" D (343.7mm x 293.4mm x 150.9mm)

## Industrial Network Uninterruptible Power Supply (UPS)

- Supports industrial switches during power outages
- Ultracapacitor technology decreases downtime risk by up to 40%\*
- Maintenance-free operation contributes to 50–70% reduced cost of ownership\*
- Non-HazMat
- Remote management with auto alerts works with standard web browsers and EtherNet/IP\*\*
- Easy device monitoring through SNMP v1/V2c/V3
- Wide operating temperature range -40°C to +60°C
- Compact, one-piece design saves 50% or more DIN Rail space compared to similar UPS devices



UPS003LSM UPS00100DC

Part Number	Description
UPS003LSM	UPS Load Sense Module; Optional Accessory for Use in Dual, Redundant Power Supply Configurations to Monitor Load on Primary Supply.
UPS00100DC	Uninterruptible Power Supply (UPS), 100W; No-Battery, Maintenance-Free with Remote Management; 24-28 VDC In/Out; DIN Rail Mount.

\*Compared to battery-based UPS devices.  
 \*\*EtherNet/IP is a trademark of ODVA.

## Network Zone Systems

- Universal design works with most DIN mount industrial Ethernet switches, providing design flexibility
- Pre-configured solution delivers up to 75% faster implementation
- Designed to accept customer supplied switches
- Copper/fiber patch fields and connectivity enable troubleshooting of network connections
- Isolation barrier segregates higher line voltage from lower voltage switch for increased safety
- Bonding provisions and grounding bar ensure path to ground to protect personnel and equipment
- Detailed installation guide provides easy, repeatable design instructions assuring consistency and saving time on the job-site
- UL Type 4/12 or 4X, UL 508A Listed, CE Approved, IP66 Rated



Z22U-S15S



Z23C-S

Part Number	Enclosure Material	Downlink Port Connectivity	Included Accessories	Power Infrastructure
<b>24" x 36" Universal Network Zone; for Two Industrial Switches</b>				
Z23U-S25S	Mild Steel	Category 6A STP	Sixteen Copper Patch Cords and Jacks, Six LC Adapters, Four LC OM3 Patch Cords	Redundant Power Supplies with One Maintenance-Free UPS
Z23U-S25		Category 6 UTP		Redundant Power Supplies with Battery Based UPS
Z23U-S21				
<b>24" x 24" Universal Network Zone; for One Industrial Switch</b>				
Z22U-S15	Mild Steel	Category 6 UTP	Eight Copper Patch Cords and Jacks, Six LC Adapters, Two LC OM3 Patch Cords	Redundant Power Supplies with One Maintenance-Free UPS
Z22U-S15S		Category 6A STP		
<b>24" x 36" Pre-Configured Network Zone; for Two Industrial Switches</b>				
Z23C-S	Mild Steel	Category 6 UTP	Sixteen Copper Patch Cords and Jacks, Six LC adapters, Four LC OM3 Patch Cords	-
<b>24" x 24" Universal Network Zone; for One Industrial Switch</b>				
Z22C-S	Mild Steel	Category 6 UTP	Eight Copper Patch Cords and Jacks, Six LC Adapters, Two LC OM3 Patch Cords	-

Products are also available in stainless steel and shielded connectivity options.

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### Universal Distribution Frames

- Engineered to deploy and protect Industrial Ethernet DIN mount switches in industrial applications
- Pre-configured, wall mount design delivers up to 75% faster implementation
- Pre-engineered power infrastructure with redundant power supplies, optional UPS, wiring, labels, terminal blocks, and disconnects
- Defined cable routings incorporate Panduit best practices in connectivity, cable management, wiring and grounding
- Additional back-end space allows for 3X the cooling capacity over typical deployments
- Key-locking handle limits access to authorized personnel for a secure network
- Detailed installation guide provides easy instructions assuring consistency and saving time on the job-site
- UL Type 4/12 or 4X, UL 508A Listed, CE Approved, IP66 Rated



ZDF24-S25



ZDF48-S65

Part Number	Enclosure Material	Included Accessories	Power Infrastructure
<b>12U Universal Distribution Frame for Industrial DIN Mount Switches</b>			
ZDF24-S25	Mild Steel	One 48-Port Patch Panel and One 4U DIN Mount Bracket to Support Two Switches	One Maintenance Free UPS, Redundant Power Supplies AC to DC, Terminal Blocks and Wiring for 120 V AC Input
<b>26U Universal Distribution Frame for Industrial DIN Mount Switches</b>			
ZDF48-S65	Mild Steel	Three 48-Port Patch Panels, Three 4U DIN Mount Brackets to Support Six Switches	Three Maintenance-Free UPS, Redundant Power Supplies AC to DC, Terminal Blocks and Wiring for 120 V AC Input

### Universal Distribution Frame Tiers



ZDINS24

Part Number	Description
ZDINS24	Tier for 2 industrial switches, one 48-port patch panel, one 4U DIN bracket, two power supplies AC to DC, terminal blocks, wiring for 120 V AC input to support two industrial DIN mount switches.
ZDINS25	Tier for 2 industrial switches, one 48-port patch panel, one 4U DIN bracket, one maintenance-free UPS, two power supplies AC to DC, terminal blocks, wiring for 120 V AC input to support two industrial DIN mount switches.



### Pre-Configured Industrial Distribution Frames

- Engineered to deploy and protect 19" rack mount Ethernet switches in industrial applications
- Pre-configured, wall mount design delivers up to 25% faster implementation
- Defined equipment locations and cable routings incorporate Panduit best practices in connectivity, cable management, wiring and grounding
- Additional back-end space allows for 3X the cooling capacity over typical deployments
- Key-locking handle limits access to authorized personnel for a secure network
- Detailed installation guide provides easy instructions assuring consistency and saving time on the job-site
- UL Type 4/12 or 4X, UL 508A Listed, IP66 Rated



ZDF242430



ZDF48-RA

Part Number	Enclosure Material	Included Accessories	Power Infrastructure
<b>12U Industrial Distribution Frame for Two Access or Two Distribution Switches</b>			
ZDF242430	Mild Steel	Two 48-Port Patch Panels, Fiber Tray, Fiber Spools, Back Panels, 10" DIN Rail, 30" Length of Duct	-
<b>26U Industrial Distribution Frame for Two Access and Two Distribution Switches</b>			
ZDF48-RA	Mild Steel	Two 48-Port Patch Panels, Fiber Tray, Fiber Spools, Back Panels, 10" DIN Rail, 30" Length of Duct	Two Duplex Power Receptacles and Four Power Cables

### Pre-Configured Industrial Distribution Frame With Access Control



ZDF242430DA2

Part Number	Enclosure Material	Included Accessories	Power Infrastructure
<b>12U Industrial Distribution Frame with Access Control for Two Access or Two Distribution Switches</b>			
ZDF242430DA2	Mild Steel	G5 Electronic Swinghandle with Built-In Low Frequency (125kHz) Card Reader	One Intelligent Power Distribution Unit (iPDU)
<b>26U Industrial Distribution Frame with Access Control for Two Access or Two Distribution Switches</b>			
ZDF48-RADA2	Mild Steel	G5 Electronic Swinghandle with Built-In Low Frequency (125kHz) Card Reader	One Intelligent Power Distribution Unit (iPDU)

### IntraVUE™ Edge Software Appliance



Part Number	Description
PNPIV	Perpetually licensed appliance. Continuously monitors the status of all devices and switches within the network. Only requires IP configuration on the client network.

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### Connect and Collaborate: AV Solutions from Atlona

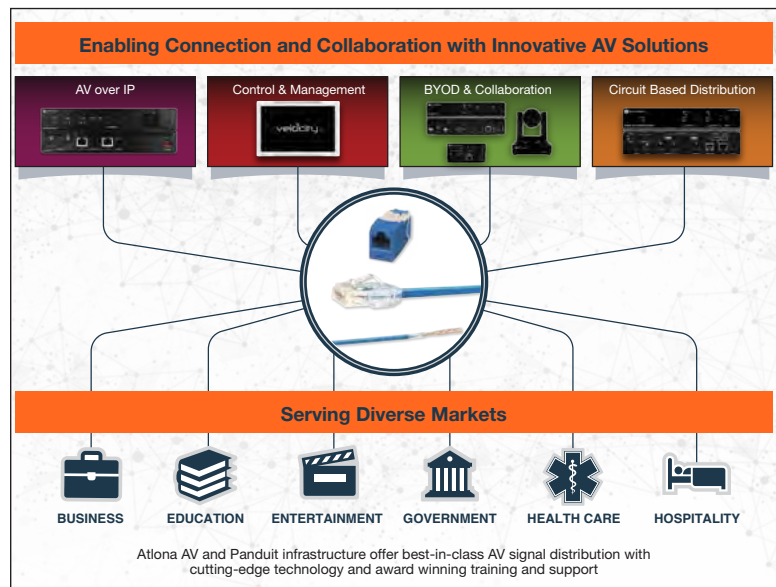
Modern AV systems enable connection and collaboration, driving discussions, improving education, and facilitating conversations within the workplace, school, or medical facility.

Today, Panduit has made it easy to deploy an AV system over structured cabling, with market-leading solutions from a single supplier. Active devices from Atlona, a Panduit company, are the core of the AV system, and are supported by Panduit's robust, reliable infrastructure portfolio to deliver flexible, scalable AV applications.

Whether you're looking at point-to-point AV extension for a classroom, boardroom, or huddle space, or an enterprise-wide AV over IP platform, you will find high quality products that are simple to install and even easier to operate, all backed by an industry-leading warranty and global customer support.

### Common Applications Supported by AV

- Boardroom
- Classroom
- Conference Room
- Digital Signage
- Entertainment Space
- Huddle Space
- Lecture Hall
- Training Room
- Video Conferencing



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## Redefining AV for presentation and collaboration

The **OMEGA™ Series** is a family of switching, extension, and video processing solutions with features and technologies designed specifically for today's meeting and gathering spaces.

They're essential AV system components made for simple plug-and-play operation to deliver a presentation or video conferencing session, and collaborate with team members. An Omega™ Series system can be a straightforward, point-to-point setup from meeting table to display, or anchored by an AV switcher with remote endpoints at display or presenter locations.

The Omega™ Series lets you specify and deliver cost-friendly AV integration solutions for participants to bring in their own devices to present or share content. Omega™ Series also makes it very easy to integrate AV systems for video conferencing with popular platforms such as Zoom, Microsoft® Teams®, and Cisco® Webex®.



### Key Features

- SIMPLE USER OPERATION – connect and present (no button to press)
- UNIVERSAL AV CONNECTIVITY for USB-C\*\*, HDMI\*\*\*, and DisplayPort
- VIDEO CONFERENCING HUB – USB interfacing for PCs, cameras, speakerphones, and soundbars
- BUILT-IN AUTOMATION with auto-switching, display control, and more
- EASILY ADAPTABLE system designs for a facility, organization, or enterprise
- \*USB Type-C® and USB-C® are registered trademarks of USB Implementers Forum.
- \*\*Atona incorporates High-Definition Multimedia Interface (HDMI®) technology.



**2x1 Switcher for HDMI and USB-C with USB Hub**

#### AT-OME-MH21

- HDMI and USB-C inputs
- Integrated USB 3.0 hub
- 4K/UHD capability @ 60 Hz / 4:4:4 chroma sampling
- 4K to 1080p downscaling
- Audio de-embedding



**4x2 Matrix Switcher with USB-C**

#### AT-OME-MS42

- HDMI, USB-C, and DisplayPort inputs
- USB-C input for AV, data, and device charging
- HDBaseT and HDMI outputs
- 4K to 1080p downscaling for HDMI output
- USB 2.0 interfacing and extension up to 330 feet (100 meters)
- Audio de-embedding



**5x2 Matrix Switcher with USB and Wireless AV Input**

#### AT-OME-MS52W

- HDMI, USB-C, DisplayPort, and wireless AV inputs
- USB-C input for AV, data, and device charging
- HDBaseT and HDMI outputs
- Native screen casting with AirPlay®, Google® Cast™, and Miracast™
- USB 2.0 interfacing and extension up to 330 feet (100 meters)

## Infrastructure Products to Complete the Solution



PUFR6X04BU-UG



CJS6X88TGY



FPS6X88MTG



STP6X2MBU



CFPL2WHY



CP24BLY

See the complete Omega™ Solution at [www.atona.com/omega](http://www.atona.com/omega).

Visit [www.panduit.com](http://www.panduit.com) for additional product information.

For service and technical support, call 1-800-777-3300.

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### Uncompromised AV over IP performance and reliability

Atlona **OmniStream™** AV over IP is a flexible, scalable, and cost-effective AV distribution platform for meeting rooms, small to medium office buildings, restaurants, retail establishments, corporations, and even a campus or enterprise. OmniStream™ AV over IP delivers the performance and dependability of traditional AV distribution, plus the unrestricted scalability and cost efficiency of integrating over data networks.

The OmniStream™ AV over IP platform is remarkably simple to set up and manage. An intuitive, powerful network resource with a web-based GUI lets you configure virtual AV routing over the network. Post-integration, managing your OmniStream™ AV over IP systems is a breeze with automated monitoring, centralized firmware updating, and much more.

In addition to easy AV routing setup, OmniStream™ AV over IP can quickly be integrated with many popular, industry-leading managed network switches. Simply upload an Atlona Certified Switch configuration file to your network switch and avoid the tedious process of running through setup menus and options.

#### Key Features

- 1 GB ETHERNET – Works over new or legacy network infrastructure
- PLUG AND PLAY – Ready to go with popular network switches
- FAST SWITCHING – Delivers ultra-fast, <10 ms 1080p switching
- SECURE – Supports IEEE 802.1x, HDCP 2.2, AES-128, and more
- VIDEO WALLS – Simple configuration for multiple display applications



**Single-Channel Networked AV Encoder**

#### AT-OMNI-111

- Single HDMI input
- 4K HDR including Dolby Vision @ 60 Hz
- Supports VR at 2160x1200 @ 90 Hz
- Plug-and-play network switch compatibility
- Network security including IEEE 802.1x
- Local/PoE-powered



**Wallplate Networked AV Encoder**

#### AT-OMNI-111-WP

- Single HDMI input
- Interchangeable black or white trim kits
- 4K HDR including Dolby Vision @ 60 Hz
- Supports VR at 2160x1200 @ 90 Hz
- Plug-and-play network switch compatibility
- Network security including IEEE 802.1x
- PoE-powered



**Single-Channel Networked AV Decoder**

#### AT-OMNI-121

- Single HDMI output
- 4K HDR including Dolby Vision @ 60 Hz
- Supports VR at 2160x1200 @ 90 Hz
- Plug-and-play network switch compatibility
- Network security including IEEE 802.1x
- Audio embedding/de-embedding
- Local/PoE-powered

### Infrastructure Products to Complete the Solution



**PUP6AHD04BU-G**



**CJ6X88TGBU**



**FP6X88MTG**



**UTP6AX7BU**



**CFPL2WHY**



**CPPL24WBLY**

See the complete OmniStream™ Solution at [www.atlona.com/omnistream](http://www.atlona.com/omnistream).

Visit [www.panduit.com](http://www.panduit.com) for additional product information.

For service and technical support, call 1-800-777-3300.



## AV control, room scheduling, and asset management

The Atлона **Velocity™ System** is an innovative AV control platform that brings together a unique set of capabilities resulting in easy system scalability and a low cost of ownership.

The Velocity™ IP-based System architecture allows a single, networked processor to serve multiple AV systems simultaneously, leading to overall AV system control efficiency. The Velocity™ System also saves valuable time with the ability to configure control systems in minutes, and quickly make system modifications free of extensive programming.

In addition to AV control, the Velocity™ System includes calendar integration for room scheduling touch panels, as well as centrally configuring, deploying, and managing AV devices.

### Key Features

- IP-BASED CONTROL – Touch panel or BYOD control of AV components over the network
- ROOM SCHEDULING – Supports Google Workspace™, Office 365™, Exchange™, and Astra Schedule
- ASSET MANAGEMENT – Configure, deploy, and monitor AV devices
- FAST CONFIGURATION – Configure AV control systems in minutes
- SCALABLE – Host multiple AV systems from a single gateway



**Hardware Gateways**

- AT-VGW-HW-3**
- AT-VGW-HW-10**
- AT-VGW-HW-20**

- Server appliance for hosting multiple rooms of AV control
- Three versions available, supporting up to 3, 10, or 20 rooms
- Support hundreds of IP device connections
- Software gateway, **AT-VGW-SW**, available for hosting on IT server infrastructure



**10" Touch Panels**

- AT-VTP-1000VL-BL**
- AT-VTP-1000VL-WH**

- Designed for room scheduling and AV control
- 10" capacitive touch screen, 1280 x 800 resolution
- Glass and universal one-gang wall mount included
- Surround bezel LED lighting
- Black and white versions available



**5.5" Touch Panels**

- AT-VTP-550-BL**
- AT-VTP-550-WH**

- Designed for AV control and room scheduling
- 5.5" capacitive touch screen
- 720 x 1280 resolution
- Black and white versions available

## Infrastructure and Power Products to Complete the Solution



**PUP6AHD04BU-G**



**CJ6X88TGBU**



**FP6X88MTG**



**UTP6AX7BU**



**CFPL2WHY**



**P08E16M**

**CPPL24WBLY**

See the complete Velocity™ Solution at [www.atlona.com/velocity](http://www.atlona.com/velocity).

Visit [www.panduit.com](http://www.panduit.com) for additional product information.

For service and technical support, call 1-800-777-3300.

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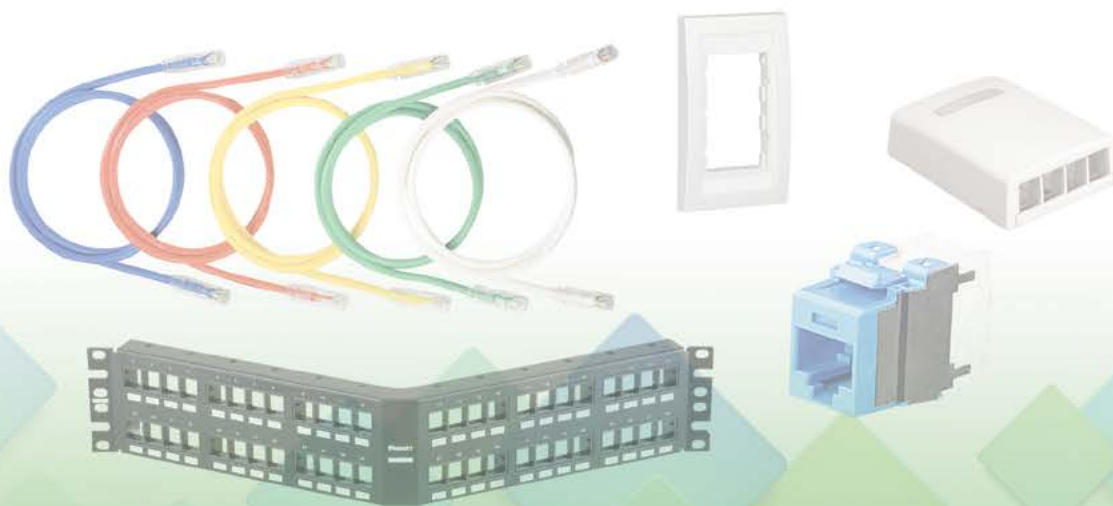
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A. Product Showcase

### NetKey® Jack Modules

- 100% tested to ensure NEXT and return loss performance and individually serialized for traceability
- Meet ANSI/TIA-568.2-D and ISO 11801 component requirements
- Snap in and out of keystone openings for easy moves, adds and changes
- Universal label includes T568A and T568B wiring schemes

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**BEST SELLER** Best Seller Jack Modules



NK6X88MBU

Part Number	Termination Style	Performance Level	Color*
NK6X88M*	Punchdown	Category 6A	White (WH), Black (BL), Blue (BU)
NK688M*		Category 6	

**Other Jack Modules Available**



NK688MBL

NK6X88M*	Punchdown	Category 6A	Green (GR), International Gray (IG), Off White (IW), Orange (OR), Red (RD), Yellow (YL)
NK688M*		Category 6	
NK6X88M*-Q		Category 6A	Black (BL), Blue (BU), White (WH), Green (GR), International Gray (IG), Off White (IW), Orange (OR), Red (RD), Yellow (YL)
NK688M*-Q		Category 6	

-Q indicates 25 pieces per package.

### NetKey® Copper Patch Cords

- 100% performance tested
- Available in a variety of colors and lengths for design flexibility

**BEST SELLER** Best Sellers are blue and 7 feet in length.



NK6APC7BU

Part Number	Cable Type	Performance Level	AWG	Cable Diameter In. (mm)	Flammability Rating	Length Ft.^	Color*
NK6APC^*	Unshielded	Category 6A	26	0.25 (6.35)	CM/LSZH	1, 3, 5, 7, 10, 15	Black (BL), Blue (BU), Off White (Leave Blank), Green (GR), Red (RD), Yellow (YL)
NK6PC^*Y		Category 6	24	0.23 (5.84)	CM		

## NetKey® Patch Panels

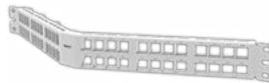
- Modular patch panels accept NetKey® Modules, which snap in and out for easy moves, adds and changes
- Angled style facilitates proper bend radius control and minimizes the need for horizontal cable managers
- Select modular patch panels have front access design includes faceplate with easy snap release feature



NKPP24FMY



NKFP24Y



NKPP48HDWH



NKPPA48FMY



NK6PPG12WY



NKA6XPPG24Y  
NKA6PPG24Y



NK6XPPG24Y  
NK6PPG24Y



NK6PPG48Y

Part Number	Ports	No. of Rack Units	Style	Identification	Color	Design		
<b>Modular Panels</b>								
NKFPL24	24	1	Flat	Label Pocket	Black	Front Access		
NKPP24FMWH			Adhesive	White	Flush Mount			
NKPPA24FMWH								
NKPP24FMY								
NKPPA24FMY								
<b>BEST SELLER</b> NKFP24Y			Black	Front Access				
NKFP24Y								
NKPPA48HDY			48	2	Angled*	N/A	White	High Density
NKPP48HDY								
NKPP48HDWH								
NKPPA48HDWH								
NKFPL48	48	2	Flat	Label Pocket	Black	Front Access		
NKFP48Y			Adhesive	White	Flush Mount			
NKFP48Y								
NKFP48Y								
NKFP48Y			Black	Front Access				
NKFP48Y								

Part Number	Ports	No. of Rack Units	Style	Identification	Color	Category
<b>Punchdown Panels</b>						
NK6PPG12WY	12	-	Flat	Adhesive	Black	Category 6
NK6XPPG24Y	24	1	Angled*			Category 6A
NKA6XPPG24Y						
NKA6PPG24Y			Category 6			
<b>BEST SELLER</b> NK6PPG24Y			48			2
NK6XPPG48Y	Angled*	Category 6				
NKA6PPG48Y						
<b>BEST SELLER</b> NK6PPG48Y			Flat			Category 6

\*Patented Design

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### NetKey® Faceplates

- Accept NetKey® Modules
- Replacement label/label covers available for select products
- Non-label faceplates include screws with matching color head screws



NK2FWHY



NK4FWHY

Part Number	Ports	Style	Identification	Color
NK2FNWH	2	Flat	Adhesive	White
NK2FWHY			Label Pocket	
NK4FNWH	4		Adhesive	
NK4FWHY			Label Pocket	
NK6FWHY	6		Label Pocket	

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### NetKey® Stainless Steel Faceplates

- Accept NetKey® Modules
- Replacement label/label covers available for select products
- Impact-resistant 304 stainless steel for light industrial environments



NKF2S



NKF4S



NKF6S

Part Number	Ports	Style	Identification
NKF2S	2	Flat	Label Pocket
NKF4S	4		
NKF6S	6		

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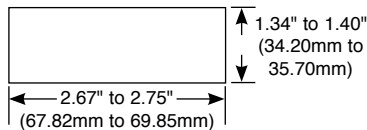
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### NetKey® Furniture Faceplates

- Accept NetKey® Modules
- Optional adhesive labels available
- Compatible with standard furniture opening

#### Panel Cutout Requirements



Maximum Panel Thickness: 0.09" (2.29mm)



NK4MFBL

Part Number	Ports	Style	Identification	Color
NK4MFBL	4	Flat	Adhesive	Black
NK4MFWH				White

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## NetKey® Surface Mount Boxes

- Accept all NetKey® Modules
- Replacement label/label covers available where applicable

- Mount easily with supplied mounting screws, adhesive tape or optional magnet
- Cable entry from side knockouts



NK2BXIW-A



NK4BXIW-AY

Part Number	Ports	Style	Identification	Magnet	Raceway Compatibility	Color	
NK2BXWH-A	2	Elongated	Adhesive	CBM-X	LD3/LDPH3 LD5/LDPH5	White	
NK2BXIW-A						Off White	
NK4BXWH-AY	4		Label Pocket			-	White
NK4BXIW-AY							Off White
NK6BXWH-AY				6			White

## NetKey® Punchdown Tools



NKSPB



PDT110

Part Number	Description
NKSPB	Punchdown based used to assist in terminating Category 6 punchdown and A/V punchdown modules.
PDT110	Single pair punchdown tool and blade terminates and cuts 110 style IDCs in one operation.
PDTH110	Replacement blade for single pair punchdown tool.

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# PANDUIT® FlexFusion™



Next-generation cabinet with custom configurations to meet your network needs.



### Ease of Use

Easy to adjust E-rails, PDU installation and accessories to reduce installation time.



### Robust

Solid construction with Best-in-Class load rating for secure installation.



### Security

Choice of key lock, 3-digit combo or HID electronic and/or keypad lock.



### Enhanced Cable Management

Choice of tool-less fingers, vertical cable manager and front-to-back cable manager.



### Integrated Intelligence

Turnkey deployment with pre-configured PDU, access control and environmental monitoring.



### Flexibility

Universal design for server or network applications.



### Maximum Cooling

80% perforated doors for increasing power density in newer deployments.



### Scalability

Configuration platform to create cabinet to meet your specification and requirements.



Like what you see...  
and want more?

For more information on FlexFusion™ Cabinets and to access the configurator, visit [www.panduit.com/flexfusion](http://www.panduit.com/flexfusion).



## FlexFusion™ Cabinets

FlexFusion™ Cabinets are ideal for network or server equipment and provide maximum flexibility and the capacity to manage high cable density in data center, enterprise or colocation deployment.



- Front single hinged door and split-hinged rear door with 80% open perforation
- Horizontally split side panels
- Adjustable front and rear cage nut equipment rails
- Includes ganging brackets and heavy-duty leveling legs
- Several tool-less cable management options to choose from
- Configurator tool to select a basic cabinet to a turn-key pre-configured cabinet
- Fully integral bonded without use of grounding wires - equipment rails, doors, side panels and top cap
- Static load rating - 3500 lbs. and rolling load rating - 2500 lbs.

Part Number	Width mm	Height RU	Depth mm	Side Panels	Color	Top Cap Type	PDU Mounting Bracket	Cable Management Fingers	Vertical Cable Management Panel
XG64212BS0001	600	42	1070	Both Sides	Black	Brush Seal	Left Side	No	No
XG64212WS0001					White				
XG64222BS0001			1200		Black				
XG64222WS0001					White				
XG64512BS0001		45	1070		Black				
XG64512WS0001					White				
XG64522BS0001			1200		Black				
XG64522WS0001					White				
XG64822BS0001		48	1200		Black				
XG64822WS0001					White				
XG74212BS0001	700	42	1070	Black	Brush Seal	Left Side	No	No	
XG74212WS0001				White					
XG74222BS0001			1200	Black					
XG74222WS0001				White					
XG74512BS0001		45	1070	Black					
XG74512WS0001				White					
XG74522BS0001			1200	Black					
XG74522WS0001				White					
XG74822BS0001		48	1200	Black					
XG74822WS0001				White					
XG84222BS0001	800	42	1200	Black	Brush Seal	Both Sides	Yes	Left Side	
XG84222WS0001				White					
XG84522BS0005			45	Black					
XG84522WS0005				White					
XG84822BS0005		48	Black						
XG84822WS0005			White						

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### FlexFusion™ Accessories

Select from tool-less cable management and easy to install PDU mounting brackets to enhance and complete your FlexFusion™ Cabinet.

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### FlexFusion™ Cable Management Fingers



Part Number	RU	Length In.	Color
XG-FML45B	42-45	6	Black
XG-FML45W			White
XG-FML48B	48		Black
XG-FML48W			White
XG-FMS45B	42-45	4	Black
XG-FMS45W			White

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### FlexFusion™ PDU Mounting Brackets



Part Number	Description	Color
XG-PBRB	FlexFusion™ PDU Mounting Bracket	Black
XG-PBRW		White

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### FlexFusion™ Vertical Cable Management Panels



Part Number	RU	Color
XG-VCM42B	42	Black
XG-VCM42W		White
XG-VCM45B	45	Black
XG-VCM45W		White
XG-VCM48B	48	Black
XG-VCM48W		White

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## Net-Access™ N-Type Cabinets

Net-Access™ N-Type Cabinets are ideal for network applications that requires optimal thermal management and the capacity to manage high cable densities of switch applications.



- Front dual or single hinge doors with 69% open perforation
- Dual hinge front door allows door to open to the left or right
- Rear perforated split doors with 69% opening
- Inset frame for improved cable management
- Single point bonding at top and bottom of cabinet
- Static load rating - 3000 lbs. and rolling load rating - 2500 lbs.
- Fully integral bonded without the use of grounding wires - equipment rails, door and side panels

## Standard Configured Cabinets

Part Number	RU	Front Door	Rear Door	Side Panels	Rail Type	Color	Dimensions		
							Height mm	Width mm	Depth mm
N8212BE	42	Single Hinge Perforated	Split Perforated	2	Cage Nut	Black	2026	800	1070
N8222B					Tapped				1200
N8222WC					Cage Nut	White			
N8229W					Tapped				
N8512B	45	Dual Hinge Perforated	Split Perforated	2	Cage Nut	Black	2134	800	1070
N8512BC					Tapped				1200
N8522B					Cage Nut	White			
N8522BC					Tapped				
N8822WC	48	Dual Hinge Perforated	Split Perforated	0	Cage Nut	White	2267	800	1200

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### Net-Access™ S-Type Cabinets

Net-Access™ S-Type Cabinets are ideal for server applications where high density RU utilization and cable management are required.



- Front single hinge door and split perforated rear door with 69% open perforation
- Vertically split hinged side panels (if applicable)
- Vertical blanking panel included
- Heavy-duty leveling legs
- Ganging brackets
- Rear equipment rails accommodate cable management fingers (finger sold separately)
- Fully integral bonded without the use of grounding wires - equipment rails, door and side panels
- Static load rating - 3000 lbs. and rolling load rating - 2500 lbs.
- Casters included

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Part Number	RU	Front Door	Rear Door	Side Panels	Color	Dimensions			
						Height mm	Width mm	Depth mm	
S6212B	42	Single Hinge Perforated	Split Perforated	2	Black	2026	600	1070	
S6222B						2026		1200	
S6522BF						2134			
S7222B	42					2026	700	1070	
S7522BF	45					2134			
S8212B	42					2026	800	1070	
S8512B	45					2134			1200
S8512BF									
S8522B								1200	
S8522BF									

Parts ending with an "F" include one set of cable management fingers.

## Net-Access™ S-Type Universal Cabinets

Net-Access™ S-Type Universal Cabinets are ideal for network or server application that provides effective thermal management, high density cable management and RU utilization.



- Front single hinge door and split perforated rear door with 69% open perforation
- Vertically split hinged side panels (if applicable)
- Ganging brackets included
- Heavy-duty leveling legs
- Adjustable front and rear equipment rails
- Top and bottom rail position markings
- Front and rear equipment rails accommodate cable management fingers (includes 1 set of fingers)
- Fully integral bonded without the use of grounding wires - equipment rails, door and side panels
- Static load rating - 3000 lbs. and rolling load rating - 2500 lbs.
- Casters included

## Universal Standard Configured Cabinets

Part Number	RU	Front Door	Rear Door	Side Panels	Color	Dimensions		
						Height mm	Width mm	Depth mm
S6212BU	42	Single Hinge Perforated	Split Perforated	2	Black	2026	600	1070
S6222BU								1200
S6812BU	48					1070		
S7222BU	42					2026		1200
S7512WU	45				White	2134	700	1070
S7822BU	48							Black
S7822WU					White	2267		
S8212BU	42				Black	2026	800	1070
S8512BU	45							1200
S8522BU								1200

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### Net-Access™ Enterprise Cabinets

The 12 and 24 RU Net-Access™ Enterprise Cabinets store switches, patching, and servers used in office and small business areas. They are easy to roll away under a desk or in a closet. The ability of the cabinet is to easily move where needed, enables fast setups and quick changes of network capabilities. Perforated doors encourage airflow to help cool equipment in tight spaces.

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- Outset post design
- Welded and assembled steel frame construction
- Easy maintenance powder coat finish
- Adjustable rear equipment rails
- Fixed front equipment rails
- Integral vertical airdams
- Dual cut outs (1.5" x 5") in the rear cap of the cabinet for cable entry/cable access
- Single hinge perforated doors on front and rear with locks
- Side panels on both sides with ¼ turn locks
- Static load of 567kg (1,250 lbs.)
- Rolling load of 227kg (500 lbs.)
- EIA-310-E compliant
- Cabinet ships either fully assembled one per pallet, flat packed one per pallet, or flat packed 5 per pallet
- Hardware kit: M6 screws and cage nuts
- Swivel casters
- Adjustable leveling legs
- Single point grounding locations at bottom of cabinet

Part Number	Nominal Width mm	Height	Nominal Depth mm	Side Panels	Color	Packaging
E6212B1	600	12 RU	1070	2	Black	Assembled on Pallet
E6212B1FP						Flat Packed on Pallet
E6412B2		24 RU				Assembled on Pallet
E6412B2FP						Flat Packed on Pallet

## Net-Contain™ Vertical Exhaust Ducts (VEDs)



Part Number	N-Type Compatibility	S-Type Compatibility	Description
C2VED07I3866B1	-	X	VED - Adjustable from 965mm (38") up to 1676mm (66") Height

## Net-Access™ Cabinet Accessories



Part Number	Height	Cabinet Type	Color	Nominal Depth mm
<b>Side Panel Kits</b>				
N51SPS	45 RU	N-Type	Black	1070
S22SPSE	42 RU	S-Type		1200
S51SPSE	45 RU			1070
S52SPSE				1200
S82SPSEW	48 RU			White



SN15F



NVPDUBE



SPDUBRK



S2BRK6



S2BRK12



SN8VCM



S1DR



S2DR



S2LR

Part Number	N-Type Compatibility	S-Type Compatibility	Description
<b>PDU Brackets and Cable Management</b>			
SN15F			Finger Kit (100mm Length) 42-45 RU Cabinets
SN25F	X	X	Finger Kit (150mm Length) 42-45 RU Cabinets
SN18F			Finger Kit (100mm Length) 48 RU Cabinets
NVPDUBE		-	PDU Bracket - Sold in Pairs
SPDUBRK			
S2BRK6	-		
S2BRK12			Combination PDU/Cable Management Bracket - 12" Wide
SN8VCM	X	X	Vertical Cable Management Bracket - 800mm Wide Cabinets
S1DR			1 RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM
S2DR	-		2 RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM
S2LR			2 RU L-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM

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### Net-Access™ Cabinet Accessories (continued)



Part Number	N-Type Compatibility	S-Type Compatibility	Description
<b>Casters</b>			
NCSTR4	X	—	2 fixed casters for front - 2 swivel casters for rear.
<b>Locks</b>			
CCL3	X	X	3-digit combination locks with key over-ride for single hinge or split doors.

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### Net-Access™ Cabinet Thermal Management Accessories



Part Number	N-Type Compatibility	S-Type Compatibility	Description
<b>Vertical Blanking Panels</b>			
NVBP	X	—	Vertical Blanking Panels with Pass Thru Openings for 42-48 RU
<b>Floor Seals</b>			
N2EOR1BA1070B1	X	—	End of Row Floor Seal for 1070mm Deep Cabinets
N2EOR1BA1070W1			
N2EOR1CA1200B1		X	End of Row Floor Seal for 1200mm Deep Cabinets
N2EOR1CA1200W1			
C2FAB08A1200B1		X	Front or Back Floor Seal
C2FAB08A1200W1		X	Front or Back Floor Seal

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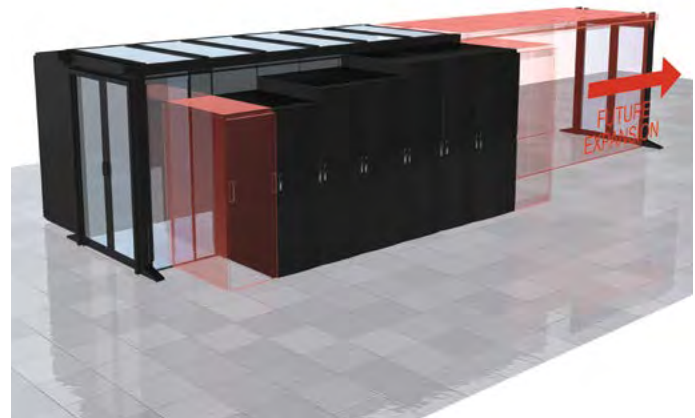
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### Net-Contain™ Universal Containment System

The Universal Containment System allows users to reclaim underutilized cooling capacity, reduce energy expense and reduce OpEx by retrofitting the existing data center with an innovative containment system. The system includes independent support structure, sliding doors, vertical blanking panels, and roof structure.

This offering can be configured in Vertical Wall (Hot Aisle Containment) and Roof Containment (Cold Aisle Containment) and allows the addition of cabinets (Panduit or non-Panduit) of varying sizes and design as needs dictate, reducing deployment time and capital investment.



I. Cable Management Accessories

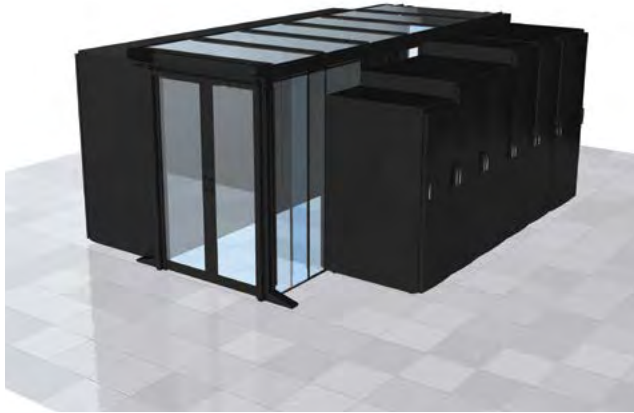
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Net-Contain™ Universal Containment System (continued)



Roof Containment

Typically used for Passive Cold Aisle Containment; deployed either on raised floor or within-row cooling.



Vertical Wall Containment

Typically used for Passive Hot Aisle Containment or Ceiling Discharge Cold Aisle Containment.

End of Row Frames

End of row frames form the Universal Aisle Containment structure at each end of a containment pod.



Part Number	Aisle Width Ft. (mm)	Frame Height	Color
CUEFRT8W04**	4 (1200)	42 RU/45 RU	**Add B1 for Black **Add W1 for White
CUEFRT8W06**			
CUEFRT9W04**	6 (1800)	48 RU/52 RU	
CUEFRT9W06**			

Wall Beams



CUWBPS08ST02B1

Part Number	Roof Containment	Vertical Wall Containment	Length mm	Description	UAC/USRC
CUWBPS06ST02**	X	X	600	2 Piece	UAC/USRC
CUWBPS07ST02**			700		
CUWBPS08ST02**			800		
CUWBPS24ST02**			2400		

\*\*B1 = Black, W1 = White

Mid-Span Cabinet Support



CUCMSS03ST01NC

Part Number	Roof Containment	Vertical Wall Containment	Height mm	UAC/USRC
CUCMSS03ST01NC	X	X	300	UAC/USRC
CUCMSS06ST01NC			600	

Full Height Mid-Span Post



Part Number	Description	Color
CUSMPR52ST01**	Mid-span post that provides structural support to the UAC frame; required for every 2400 mm on partially populated row.	**Add B1 for Black **Add W1 for White

Rigid Roof Sections



Part Number	Dimensions (Panel Length x Aisle Width)	Color
CURFS06F04HB**	600mm x 1200mm	**Add B1 for Black **Add W1 for White
CURFS06F06HB**	600mm x 1800mm	
CURFS07F04HB**	700mm x 1200mm	
CURFS07F06HB**	700mm x 1800mm	
CURFS08F04HB**	800mm x 1200mm	
CURFS08F06HB**	800mm x 1800mm	

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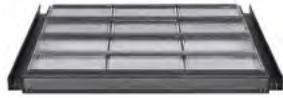
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Part Number	Roof Containment	Vertical Wall Containment	Row Width mm	Cabinet Width mm	UAC/USRC
<b>Drop Away Panels</b>					
CUCGF04DP**	X	-	1200	X	UAC
CUCGF06DP**			1800		

\*\*B1 = Black, W1 = White

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	Cabinet Width mm	UAC/USRC
<b>End of Row Kits for Drop Away Panels</b>					
CUEORF04DP**	X	X	1200	X	UAC
CUEORF06DP**			1800		

\*\*B1 = Black, W1 = White

Part Number	Description
<b>Top of Cabinet Blanking Panel</b>	
CUTBPR0610HBN1	Top of cabinet blanking panel used to fill gaps above cabinets; needed when cabinet height is less than UAC frame size.

Part Number	Panel Height	Color
<b>Full Height Blanking Panels</b>		
Full blanking panel used to fill gap in containment where cabinets have not been deployed.		
CUFBPR4206HB**	42 RU	**Add B1 for Black **Add W1 for White
CUFBPR4506HB**	45 RU	
CUFBPR4806HB**	48 RU	
CUFBPR5206HB**	52 RU	

Part Number	Height Range In. (mm)	Width mm	Color
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#### Vertical Wall (Mounted Onto UAC Frame)

Adjustable vertical wall mounted onto UAC frame to seal gap up to ceiling plenum in aisle containment.

C2HAC0611626**	16-26 (406-660)	600	**Add B1 for Black **Add W1 for White
C2HAC0612638**	26-38 (660-965)		
C2HAC0613866**	38-66 (965-1676)		
C2HAC0711626**	16-26 (406-660)	700	
C2HAC0712638**	26-38 (660-965)		
C2HAC0713866**	38-66 (965-1676)		
C2HAC0811626**	16-26 (406-660)	800	
C2HAC0812638**	26-38 (660-965)		
C2HAC0813866**	38-66 (965-1676)		



**Net-Contain™ Universal Containment System (continued)**

Part Number	Description	Color
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**Vertical Wall Brace (Mounted Onto UAC Frame)**



<b>CUVWB12S12ST**</b>	Vertical wall brace is mounted across the aisle between wall beams to provide extra stability in aisle containment.	**Add B1 for Black **Add W1 for White
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Part Number	Size	Color
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**Vertical Wall Adapter**

Vertical wall adapter used to mount Vertical Walls to UAC frame in aisle containment.



<b>CUVWA06S06ST**</b>	600mm Adapter for 1200mm Aisle Width	**Add B1 for Black **Add W1 for White
<b>CUVWA07S07ST**</b>	700mm Adapter for 1200mm Aisle Width	
<b>CUVWA08S08ST**</b>	800mm Adapter for 1200mm Aisle Width	

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	Description	Compatible With CAC/HAC
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**Dual Sliding Doors**

Dual sliding doors provide thermal seal at the end of the row and attach to the end of row frames.



<b>CUD1SD**</b>	X	X	1200/1800	Double Sliding Door	CAC/HAC
<b>CUD2SD**</b>				Double Sliding Door, Packaged as a Pair	

Part Number	Height Range In. (mm)	Aisle Width mm	Color
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**Vertical Wall (Mounted Above End of Row Frame)**



<b>C2HACERI1626**</b>	16-26 (406-660)	1200	**Add B1 for Black **Add W1 for White
<b>C2HACERI2638**</b>	26-38 (660-965)		
<b>C2HACERI3866**</b>	38-66 (965-1676)		

**Net-Contain™ Universal Single Row Containment and Universal Aisle Containment**

Part Number	Length	Color
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**Wall Beam to Wall Seal**



<b>CUSRWSK06**</b>	Used with 600mm Wall Beams	**Add B1 for Black **Add W1 for White
<b>CUSRWSK07**</b>	Used with 700mm Wall Beams	
<b>CUSRWSK08**</b>	Used with 800mm Wall Beams	
<b>CUSRWSK24**</b>	Used with 2400mm Wall Beams	

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### Net-Contain™ Universal Single Row Containment and Universal Aisle Containment (continued)

B. Copper Systems



CUSREFRT8W1

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	RU	UAC/USRC
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**End of Row Frames**

CUSREFRT8 <sup>^^</sup>	X	X	900	42 RU to 45 RU	USRC
CUSREFRT9 <sup>^^</sup>				48 RU to 52 RU	

\*Used with CUEFRCKITB1 conversion kit for applications with 2 rows of cabinets.  
<sup>^^</sup>B1 = Black, W1 = White

C. Fiber Systems

D. Industrial Networks



CUEFRCKITB1

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	RU	UAC/USRC
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**USRC to UAC Conversion Kit**

CUEFRCKIT <sup>**</sup>	X	X	900	—	UAC
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Attaches to end of row frames.  
<sup>\*\*</sup>B1 = Black, W1 = White

E. Audio Video Systems

F. Keystone Cabling Systems



CUSRRF0S06B1

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	Width mm	UAC/USRC
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**Rigid Roof Sections**

CUSRRFS06 <sup>**</sup>	X	—	900	600	UAC/USRC
CUSRRFS07 <sup>**</sup>				700	
CUSRRFS08 <sup>**</sup>				800	

<sup>\*\*</sup>B1 = Black, W1 = White

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

H. Power Management



CUCGF03DPB1

Part Number	Roof Containment	Vertical Wall Containment	Row Width mm	Cabinet Width mm	UAC/USRC
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**Drop Away Panels**

CUCGF03DP <sup>**</sup>	X	—	900	—	UAC/USRC
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<sup>\*\*</sup>B1 = Black, W1 = White

I. Cable Management Accessories



CUEORF03DPB1

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	Cabinet Width mm	UAC/USRC
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**End of Row Kits for Drop Away Panels**

CUEORF03DP <sup>**</sup>	X	—	900	—	UAC/USRC
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<sup>\*\*</sup>B1 = Black, W1 = White

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**Net-Contain™ Universal Aisle Containment and Single Aisle Containment  
(continued)**



CUSRVA06B1

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	Vertical Wall Width	UAC/USRC
<b>USRC Vertical Wall Adapters</b>					
CUSRVA06**	—	X	900	600	UAC/USRC
CUSRVA07**				700	
CUSRVA08**				800	

\*\*B1 = Black, W1 = White



CUSRWB1

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	Cabinet Width mm	UAC/USRC
<b>Vertical Wall Brace</b>					
CUSRWB**	—	X	900	—	UAC/USRC

\*\*B1 = Black, W1 = White



CUSRWER1626B1

Part Number	Roof Containment	Vertical Wall Containment	Adjustability In.	Aisle Width mm	UAC/USRC
<b>End of Row Vertical Wall</b>					
CUSRWER1626**	—	X	16-26	900	UAC/USRC
CUSRWER2638**			26-38		
CUSRWER3866**			38-66		

\*\*B1 = Black, W1 = White



CUSR1SDLB1

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	Description	UAC/USRC
<b>Sliding Doors</b>					
Used with Universal Single Row Containment and Universal Aisle Containment with 900mm Aisle Widths.					
CUSR1SDLH**	X	X	900	Single Sliding, Left Hand Opening	USRC
CUSR1SDRH**				Single Sliding, Right Hand Opening	

\*\*B1 = Black, W1 = White



CUEOR12CPB1

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	UAC/USRC
<b>End Of Row Caps</b>				
CUSREORCP**	X	X	900	UAC/USRC
CUEOR12CP**			1200	UAC
CUEOR18CP**			1800	

\*\*B1 = Black, W1 = White

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### Direct Cold Air To Where It Is Needed



#### Net-Direct™ Inlet Ducts enable optimized containment by effectively directing airflow to improve network reliability

- Inlet duct solutions deliver cooling air directly from the cold aisle into the intake fans of switches
- Inlet ducts are completely passive, requiring no energy to operate and eliminating a point of failure
- Ensures front to back cooling airflow which enables an effective deployment of network switches with a Net-Contain™ Cold Aisle Containment deployment
- Inlet ducts enable reduced fan power energy consumption by allowing lower fan speeds, improving the reliability of the switch

Available for: Cisco^ Nexus, Catalyst and MDS Switches.



### Direct Hot Air To Where It Needs To Exhaust

#### Net-Direct™ Exhaust Ducts direct hot exhaust air out of a cabinet away from adjacent devices within non-contained environments

- Exhaust duct solutions channel hot exhaust air directly to the hot aisle, away from the cold air inlet of adjacent switches
- Exhaust ducts are completely passive, requiring no energy to operate and eliminating a point of failure
- Ensures switch exhaust airflow is directed to the hot aisle enabling effective deployment of network switches with a standard hot aisle/ cold aisle configuration
- Exhaust ducts enable reduced fan power energy consumption by allowing lower fan speeds, improving the reliability of the switch

Available for: Cisco^ Nexus and Catalyst Switches.

**Patented In-Cabinet Ducting optimizes cooling system efficiency by establishing front-to-back airflow patterns through the cabinet.**



Part Number	Description
<b>Air Inlet Ducting</b>	
<b>CDE2</b>	Air inlet duct, 1 RU that resides in-line and below switch provides cold aisle airflow to Cisco Nexus^ N2K-C2148T-1GE, N2K-C2248TP-1GE, and N2K-C2232PP-10GE fabric extenders and Cisco^ WS-C4948E-F, WS-C4948E-F-S, and WS-C4948E-F-E. Optimized for use in server cabinet applications.
<b>DIRLC2214M21W</b>	Air inlet duct designed for Cisco^ Catalyst^ 6509-E switch. Consists of 2 RU top and 2 RU bottom inlet ducts and a side duct. Compatible with Net-Access™ N-Type Network Cabinets.
<b>DIRBB2007S21W</b>	Air inlet duct designed for Cisco^ Nexus^ 7004 switch. Consists of one 2 RU inlet duct and a side duct. Compatible with Net-Access™ N-Type Network Cabinets.
<b>CID1RU22-23DB1</b>	Air inlet 1 RU duct for Cisco^ Nexus^ 9372 switch, compatible with 21.5" – 23.5" switch depth.
<b>DIFBA2002S00S</b>	Air inlet duct for Cisco^ Nexus^ 9396 switch.
<b>DIRLC3210S17W</b>	Air inlet duct for Cisco^ Catalyst^ 6807XL switch.
<b>Exhaust Ducting</b>	
<b>DERLCC6509A</b>	Air exhaust duct for Net-Access™ N-Type 1070mm depth cabinets. Designed for Cisco^ Catalyst^ 6509 switch.
<b>DERLCC7009A</b>	Air exhaust duct for Net-Access™ N-Type 1070mm depth cabinets. Designed for Cisco^ Nexus^ 7009 switch.

^Cisco, Catalyst, and Cisco Nexus are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

## Thermal Sealing Accessories



FLBSIM-51



TLBP1R-V



TLBP1S-V



TLBP2R-V



RFG\*X\*Y

RFG\*X\*SMY



CTGN1X5

CTGN3X5



CTGN6X6



CTCN1X5

CTCN3X5



CTCN6X6

CTNBZL6X6

Part Number	Description	Color
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### Blanking Shades

**BEST SELLER**

FLBSIM-51	Full-length blanking shade blanks out 1-51 consecutive rack units on standard 19" (482.6mm) wide vertical mounting rails.	Black
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### Tool-Less Blanking Panels

TLBP1R-V10	1 RU tool-less blanking panel, round hole 19" (483mm) width for tapped rails.	White
TLBP1S-V	1 RU tool-less blanking panel, square hole 19" (483mm) width for 3/8" cage nut holes (may be used with or without cage nuts installed).	Black
TLBP1S-V10		White
TLBP2S-V	2 RU tool-less blanking panel, square hole 19" (483mm) width for 3/8" cage nut holes (may be used with or without cage nuts installed).	Black
TLBP2S-V10		White
TLBP2R-V10	2 RU tool-less blanking panel, round hole 19" (483mm) width for tapped rails.	White

### CoolBoot® Raised Floor Air Sealing Grommets - Integral Mount

RFG6X8Y	Overall size of 6" x 8" (152.4mm x 203.2mm) allows for 4.2" x 6.2" (106.7mm x 157.5mm) capacity.	Navy Blue
RFG8X8Y	Overall size of 8" x 8" (203.2mm x 203.2mm) allows for 6.2" x 6.2" (157.5mm x 157.5mm) capacity.	

### CoolBoot® Raised Floor Air Sealing Grommets - Surface Mount

RFG3DSMY	Overall size of 4.8" (121.9mm) diameter allows for 2.7" (68.6mm) diameter capacity.	Navy Blue
RFG6X8SMY	Overall size of 6" x 8" (152.4mm x 203.2mm) allows for 4.2" x 6.2" (106.7mm x 157.5mm) capacity.	
RFG8X8SMY	Overall size of 8" x 8" (203.2mm x 203.2mm) allows for 6.2" x 6.2" (157.5mm x 157.5mm) capacity.	

Also designed for retrofit application.

Part Number	Description
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### CoolBoot® Cabinet Top Air Sealing Fittings

CTGN1X5	Used to seal off 1" x 5" cabinet top openings when cables are routed through the top of a cabinet. Airtight fabric and Ultra-Cinch™ Tie close top of fabric, minimizing hot air bypass around cables to improve cooling of network equipment and reduce energy costs. For use with 600mm wide Net-Access™ Cabinets.
CTGN3X5	Used to seal off 3" x 5" cabinet top openings when cables are routed through the top of a cabinet. Airtight fabric and Ultra-Cinch™ Tie close top of fabric, minimizing hot air bypass around cables to improve cooling of network equipment and reduce energy costs. For use with 600mm, 700mm and 800mm wide FlexFusion(TM) and 700mm and 800mm Net-Access™ Cabinets.
CTGN6X6	Used to seal off 6.5" x 6.5" cabinet top openings when cables are routed through the top of a cabinet. Airtight fabric and Ultra-Cinch™ Tie close top of fabric, minimizing hot air bypass around cables to improve cooling of network equipment and reduce energy costs. For use with 600mm, 700mm, 800mm, and 1000mm wide Net-Access™ Cabinets.

### Cabinet Top Cover and Cable Protection Bezels

CTCN1X5	Used to seal off 1.5" x 5" cabinet top openings. Can also be used to add the CTGN1X5 to openings where the snap-on cover has been removed. For use with Net-Access™ Cabinets.
CTCN3X5	Used to seal off 3.5" x 5" cabinet top openings. Can also be used to add the CTGN3X5 to openings where the snap-on cover has been removed. For use with FlexFusion™ and Net-Access™ Cabinets.
CTCN6X6	Used to seal off 6" x 6" cabinet top openings. Can also be used to add the CTGN6X6 to openings where the snap-on cover has been removed. For use with Net-Access™ Cabinets.
CTNBZL6X6	Used to provide a protective edge for cables routed through the 6.5" x 6.5" cabinet top openings after knock-outs are removed. Can also be used to add the CTGN6X6 to openings where knock-out has been removed. For use with Net-Access™ Cabinets.

### PatchRunner™ 2 Vertical Cable Management System

- A "push-to-close" door design allows for easy operation
- The doors ship with managers which simplifies the ordering process with less packaging waste
- There are no brackets to install, providing faster installation while reducing labor costs
- Managers and doors are available in black and white
- Individual fingers align with rack spaces to simplify cable routing changes
- The integral bend radius control ensures network performance and system reliability
- An optional snap on vertical retainer can be placed on the fingers to help retain cables in channel for improved cable management and appearance
- An optional slack management spool helps organize and manage patch cord slack allowing for standardization of patch cord lengths



PR2VD08

Part Number	Height In. (mm)	Width In. (mm)	Depth In. (mm)	No. of Rack Units	Single or Dual Sided	No. of Doors Included	Color
<b>BEST SELLER</b> PR2VD06	84.0 (2130)	6.0 (152)	20.6 (523)	45	Dual	2	Black
<b>BEST SELLER</b> PR2VD08		8.0 (203)					
<b>BEST SELLER</b> PR2VD10		10.0 (254)					
<b>BEST SELLER</b> PR2VD12		12.0 (305)	12.0 (304.8)		Single	1	
<b>BEST SELLER</b> PR2VFD06		6.0 (152)					
<b>BEST SELLER</b> PR2VFD08		8.0 (203)					
<b>BEST SELLER</b> PR2VSD06		6.0 (152)	20.6 (523)		Dual		
<b>BEST SELLER</b> PR2VSD08		8.0 (203)					

### Cable Management Accessories



PR2VWF

Part Number	Description	Color
PR2VRGSK12	Rear Gate System Kit for use with 12-inch wide single-sided PatchRunner™ 2 Vertical Cable Managers, kit of 4 gates.	Black
PR2VWF	Waterfall Trough creates a cable pathway above 2 Post Racks or 4 Post Racks and PatchRunner™ 2 Vertical Cable Managers.	

### PatchRunner™ 2 Enhanced Vertical Cable Manager with Vertical Patching



PE2VD12

Part Number	Height In. (mm)	Width In. (mm)	Depth In. (mm)	No. of Rack Units	Single or Dual Sided	No. of Doors Included	Color
<b>BEST SELLER</b> PE2VD06	84.0 (2130)	6.0 (152)	26.8 (681)	45	Dual	2	Black
<b>BEST SELLER</b> PE2VD08		8.0 (203)					
<b>BEST SELLER</b> PE2VD12		12.0 (305)					
PE2VFD06		6.0 (152)	16.3 (415)		Single	1	



## PatchRunner™ 2 Horizontal Cable Management System



PR2HF2

Part Number	Height In. (mm)	Width In. (mm)	Depth In. (mm)	No. of Rack Units	Single or Dual Sided	No. of Doors Included	Color
PR2HF2	3.6 (90)	19 (484)	7.9 (202)	2	Single	1	Black
PR2HF3	5.41 (135)			3			
PR2HF4	7.1 (179)			4			

## NetRunner™ Vertical Cable Management

- Integral cable retainers on the end of each finger provide easy access to route cables between fingers
- Bend radius fingers align with rack spaces to support cables as they transition to the vertical pathway
- Dual hinged covers can be opened 110° to the left or right to provide complete access to the cables inside the vertical pathway
- Vertical managers include hinged covers, mounting brackets and #12-24 screws

### NetRunner™ Vertical Cable Manager



WMPV45E

Part Number	Height In. (mm)	Width In. (mm)	Depth In. (mm)	No. of Rack Units	Single or Dual Sided	Color
<b>BEST SELLER</b> WMPV45E	83.0 (2108)	4.9 (125)	12.0 (306)	45	Dual	Black
<b>BEST SELLER</b> WMPVF45E			6.5 (165)		Single	
<b>BEST SELLER</b> WMPVHC45E		6.7 (170)	14.1 (357)		Dual	
WMPV22E	41.5 (1054)	4.9 (125)	12.0 (306)	22	Dual	
WMPVHCF45E	83.0 (2108)	6.7 (170)	7.6 (192)	45	Single	

## IN-Cabinet Vertical Cable Managers

- For managing cable within cabinets 27 inches or wider
- Attach to equipment mounting rails
- Two mounting bracket options to facilitate mounting to various cabinet configurations
- Snap-on covers included



CWMPV3440

Part Number	Height In. (mm)	Width In. (mm)	Depth In. (mm)	No. of Rack Units	Orientation	Single or Dual Sided	Color
CWMPV3340	70.0 (1778)	4.7 (119)	3.3 (83)	40	Front Mount	Single	Black
CWMPV3440	71.9 (1825)	3.5 (88)	4.3 (109)		Side Mount		

### Open-Access™ Horizontal Cable Managers

- D-ring managers provide an open and efficient way to manage cable
- Patented D-ring design provides flexibility for easy moves, adds, and changes
- Pass-through holes allow front to rear cabling
- Mount to 19" EIA racks and cabinets
- Hardware included
- Ideal when positioning managers above and below a 1 RU patch panel or switch for better port access



CMPHF1

Part Number	Height In. (mm)	Width In. (mm)	Depth In. (mm)	No. of Rack Units	Single or Dual Sided	Color
CMPHF1	1.7 (44)	19.0 (483)	8.6 (218)	1	Single	Black
CMPHF2	3.5 (88)			2		

### PatchLink™ Horizontal Cable Managers

- Lightweight plastic construction provides durability and easy installation
- Patented dual hinged cover allows cable access without removing cover
- Rounded edges on fingers protect cables from snags and damage to cable
- Flexible fingers allows easy installation and removal of cables
- Pass-through holes allow front to rear cabling
- Covers and #12-24 mounting screws included
- Recommended for use with NetRunner™ WMPVHC45E and WMPVHCF45E Vertical Managers found on page G.19




WMPF1E

Part Number	Height In. (mm)	Width In. (mm)	Depth In. (mm)	No. of Rack Units	Single or Dual Sided	Color
<b>BEST SELLER</b> WMP1E	3.5 (89)	19.0 (483)	8.9 (226)	2	Dual	Black
<b>BEST SELLER</b> WMPF1E			3.7 (94)		Single	
<b>BEST SELLER</b> WMPH2E			8.9 (226)		Dual	
<b>BEST SELLER</b> WMPFSE	1.7 (44)	19.0 (483)	2.7 (69)	1	Single	
<b>BEST SELLER</b> WMPSE			8.9 (226)		Dual	
WMPHF2E	3.5 (89)	19.0 (483)	3.7 (94)	2	Single	
WMPLFSE	1.7 (44)		2.7 (69)		1	
WMPLESE		7.9 (200)				

## NetManager™ High Capacity Horizontal Cable Managers

- Innovative inset fingers slope inward toward back of managers offering unobstructed access to network cabling for easier moves, adds, and changes
- Rear cable management finger spacing utilizes open D-rings for greater accessibility
- Can be used to create large capacity horizontal pathways for routing cable
- Patented front and rear dual hinged cover allows cable access without removing cover
- Pass-through holes allow for front to rear cabling
- Built in cable retainers hold cable in place for easy moves, adds, and changes
- Covers and #12-24 mounting screws included
- Recommended for use with NetRunner™ WMPVHC45E Vertical Manager or PatchRunner™ 2 Vertical Managers found on pages G.18–G.19



Part Number	Height In. (mm)	Width In. (mm)	Depth In. (mm)	No. of Rack Units	Single or Dual Sided	Color	
<b>BEST SELLER</b> NMF1	1.7 (44)	19.0 (482)	6.2 (157)	1	Single	Black	
<b>BEST SELLER</b> NMF2	3.5 (88)			2			
NM1	1.7 (44)		13.1 (332)	1	Dual		
NM2	3.5 (88)			2			
NMF1WH	1.7 (44)		6.2 (157)	1	Single		White
NMF2WH	3.5 (88)			2			

## 4 Post Cable Management Rack System

- Independent adjustable front and rear mounting rails can be adjusted while the rack is secured to the floor
- Printed rack space identification on all equipment rails allows for quick location of rack spaces (shipped numbers up per TIA606 specifications; can be set to number down by flipping the rails)
- Multiple mounting holes in top flanges for securing overhead pathways
- Weld nut construction eliminates the need for a second wrench increasing speed and ease of assembly
- Panduit vertical cable managers mount directly to the 4 post rack at any of the four corners
- Paint piercing washers included to electrically bond rack for simplified grounding



Part Number	Height In. (mm)	Width In. (mm)	Depth In. (mm)	No. of Rack Units	Equipment Rails	Load Capacity Lbs.	Color
<b>BEST SELLER</b> R4P	84.0 (2134)	23.3 (591)	30.0 (762)	45	#12-24 Threaded	2500	Black
<b>BEST SELLER</b> R4PCN					Cage Nut		
R4P23CN			23.0 (584)				
R4P36			36.0 (914)		Cage Nut		
R4P36CN							
R4P42CN							

A. Product Showcase

### Adjustable Depth 4 Post Racks



AR4P

Part Number	Height In. (mm)	Width In. (mm)	Depth In. (mm)	No. of Rack Units	Equipment Rails	Color
AR4P	84.13 (2136.9)	20.31 (515.9)	23.00 to 42.00 (584.2 to 1066.8)	45	#12-24 Threaded	Black
AR4P96	96.13 (2441.7)			52		
AR4PCN	84.13 (2136.9)			45	Cage Nut	
AR4PCN96	96.13 (2441.7)			52		

B. Copper Systems

C. Fiber Systems

D. Industrial Networks

### 2 Post Cable Management Rack System

- Printed rack space identification on all equipment rails allows for quick location of rack spaces; numbers up per TIA606 specifications
- Double-sided #12-24 EIA universal mounting hole spacing
- 24 #12-24 mounting screws included
- When mounting NetRunner™ Managers to channel rack R2P6S, utilize side mount kit WMPVSMK
- Multiple mounting hole locations in each base angle
- Can be used with all Panduit cable management and patch panel products in addition to any industry standard 19" components
- Paint piercing washers included to electrically bond rack for simplified grounding; for the complete grounding solution, StructuredGround™ Kits for racks, see page G.27

E. Audio Video Systems

F. Keystone Cabling Systems



R2P

Part Number	Height In. (mm)	Width In. (mm)	Depth In. (mm)	No. of Rack Units	Equipment Rails	Load Capacity Lbs.	Color
<b>BEST SELLER</b> R2P	84.0 (2134)	20.3 (516)	3.0 (76)	45	#12-24 Threaded	1000	Black
R2P6S			6.0 (152)			1500	

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

H. Power Management

### Rack Mount Shelves

- Mounting hardware included
- Vented shelves provide better heat distribution for active equipment



RSHLF

Part Number	Description	Height In. (mm)	Width In. (mm)	Depth In. (mm)	No. of Rack Units	Material	Load Rating Lbs.	Color
SRM19FM1	2 Post Rack Mount Shelf.	1.7 (44)	19.0 (483)	15.2 (385)	1	Steel	30	Black
RSHLF	4 Post Rack Mount Shelf.			30.0 (762)			275	

I. Cable Management Accessories

J. Cable Routing Systems

K. Surface Raceway

L. Part Number Index

## Rack Filler Panels

- Direct airflow in cabinet applications
- Mount to standard EIA 19" racks or cabinets
- Reserve rack unit space for future use



DPFP1

Part Number	Height In. (mm)	Width In. (mm)	No. of Rack Units	Color
DPFP1	1.7 (44)	19.0 (483)	1	Black
DPFP2	3.5 (88)		2	

## Brackets and Blanking Panels



PEB1

Part Number	Description	No. of Rack Units	Color
<b>Panel Extender Brackets</b>			
PEB1	Set of two brackets, allows 19" rack mountable accessories to mount to 23" wide rack.	1	Black
PEB2		2	



CVPDUB

Part Number	Description	Color
<b>4 Post PDU Bracket</b>		
CVPDUB	PDU bracket kit vertically mounts power distribution units (PDUs) to the back of 4 post racks.	Black
<b>2 Post PDU Bracket</b>		
R2PPDUB	Mounts power distribution units (PDUs) to the back of 2 post racks.	Black
<b>Blanking Panel</b>		
BR1B	Brush seal blanking panel with front to back cable pass-through 1 RU.	Black

A. Product Showcase

B. Copper Systems

C. Fiber Systems

D. Industrial Networks

E. Audio Video Systems

F. Keystone Cabling Systems

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

H. Power Management

I. Cable Management Accessories

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L. Part Number Index

### PanZone® Consolidation Point Box Enclosures

- Provides a point of connection and configuration within the permanent link to allow interconnection/cross connection to a network service or device
- The use of these enclosures in a zone cable application provides accessibility and flexibility to reconfigure cable runs
- Meets frequently changing organizational requirements and reducing network downtime when reconfigurations happen
- Capable of managing Mini-Com® Modular Panels used with snap in modular faceplates and 19-inch patch panels
- Versatility in configurations accepts interchangeable modular patch panels for use with Mini-Com® Products, NetKey® Products, QuickNet™ Products, or fiber products
- Removable cover protects connection points
- Large openings for cable entry/exit allow for optimum cable capacity and maintains cable bend radius
- Foam around cable entry and exit points, protects from excess dust and debris
- Removable modular panels and patch panels quick drop-in panel design allows for time savings on installation, termination, and reconfiguration and allows for easier access to ports



CPB6BL

Part Number	Width In. (mm)	Depth In.(mm)	Height In. (mm)	No. of Rack Units	No. of Ports	Material	Color
<b>BEST SELLER</b> CPB6BL	7 (177.8)	6.99 (177.5)	2.48 (63)	1	6	Steel	Black
<b>BEST SELLER</b> CPB12BL	11.3 (287)	7.15 (181.6)			12		
<b>BEST SELLER</b> CPB24BL	20.15 (511.8)	12.15 (308.6)	24				
<b>BEST SELLER</b> CPB48BL			48				
			3.74 (95)	2			

### PanZone® TrueEdge™ Wall Mount Enclosures

- The low-profile enclosure provides an efficient way to deploy switch and server systems in an open architecture environment
- Capable of being used as a telecommunications room, extension of the telecommunications room, micro data center, or edge deploy
- Capable of mounting up to 36 inches of active equipment depth and has the capability of vertical patching
- Engineered to properly ventilate for use with various networking equipment such as, but not limited to, Power over Ethernet (PoE) Switches and Uninterrupted Power Supplies (UPS)
- Removable, perforated top and bottom is optimal for air flow, heat dissipation, and equipment access
- Adjustable equipment brackets for accommodation of server and/or switch applications
- Removable and secure top cover and bottom plate allow for easy installation and provides secure access to installed equipment
- Load rating to accommodate a static load of up to 400 lbs.
- Easily installed by one person
- Compatible with SmartZone™ Handles and Systems
- Accessories to mount patch panels and horizontal PDUs



WME6BL

Part Number	Width In. (mm)	Depth In. (mm)	Height In. (mm)	No. of Rack Units	No. of Ports	Material	Color
WME3BL	28.6 (12.97)	9.5 (4.31)	42 (19.05)	3	200	Steel	Black
WME6BL		14.8 (6.71)		6	300		
WME9BL		20 (9.07)		9	400		

- A. Product Showcase
- B. Copper Systems
- C. Fiber Systems
- D. Industrial Networks
- E. Audio Video Systems
- F. Keystone Cabling Systems
- G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt
- H. Power Management
- I. Cable Management Accessories
- J. Cable Routing Systems
- K. Surface Raceway
- L. Part Number Index

## PanZone® Wall Mount Cabinets

- Holds 12 RU of active and passive network equipment plus two additional rack units for power strips and small electronic devices (modems, routers, power strips, etc.)
- Thermal management design (vents, perforated doors, and optional fan) optimizes air flow for improved heat dissipation
- Installed as hinged right or hinged left
- Conduit and wireless access point antenna knockouts provided
- Rear hinging access manages the back of the cabinet
- Accessories include horizontal slack manager, bend radius posts, rear equipment rail kit, and exhaust fan
- Working load rating of 250 lbs.
- Adjustable rails mount at 1 inch increments to accommodate various depths of network equipment including PoE switches
- Individual rack spaces are identified for ease of equipment mounting
- Keys to secure front and rear doors and side panels



PZWMC12W



PZWMC1230WH

Part Number	Width In. (mm)	Depth In. (mm)	Height In. (mm)	No. of Rack Units	Material	Color	Door Type	
PZWMC12P	25 (635)	25 (635)	23.8 (604.5)	12	Steel	Black	Perforated	
<b>BEST SELLER</b> PZWMC12W			34 (863.6)	18			Window	
PZWMC18W			48.2 (1224.3)	26				
PZWMC26W		30 (762)	23.8 (604.5)	12				White
PZWMC1230W			34 (863.6)	18				Black
PZWMC1230WH			48.2 (1224.3)	26				White
PZWMC1830W		30 (762)	30 (762)	34 (863.6)		18		Black
PZWMC1830WH							White	
PZWMC2630W							Black	
PZWMC2630WH							White	

## PanZone® Basic In-Ceiling Enclosures

- Hinged door with integrated 110 V exhaust fan and gas assist air cylinders for restraining the load on the ceiling door when opening
- Ceiling tile brackets and cutout template for inserting ceiling tile on the enclosure door
- Thermal management design optimizes air flow for improved heat dissipation; ideal for high heat load network equipment
- Two-tier mounting bracket accommodates two rack spaces of active equipment up to 17.5 inches deep and three additional rack spaces up to 13.5 inches deep for improved network design flexibility
- 50 lb. door weight capacity
- Includes door plate, equipment mounting bracket, and integrated horizontal cable slack manager
- AC power ready – receptacle not included
- Includes low decibel 60 CFM fan
- Keys for locking latch to secure the ceiling door
- UL 2043 Plenum rated and UL 1863 rated



PZICEA

Part Number	Width In. (mm)	Depth In. (mm)	Height In. (mm)	No. of Rack Units	Load Capacity Lbs.	Material	Color
PZICEA	23.5 (596.9)	27.23 (691.6)	13.43 (341.1)	5	50	Steel	White

A. Product Showcase

B. Copper Systems

C. Fiber Systems

D. Industrial Networks

E. Audio Video Systems

F. Keystone Cabling Systems

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

H. Power Management

I. Cable Management Accessories

J. Cable Routing Systems

K. Surface Raceway

L. Part Number Index



### PanZone® Overhead Distribution Racks

- Ideal solution for adding more rack spaces above racks or cabinets in data centers or telecommunication rooms
- Universal mounting bracket can be mounted to most industry ladder racks, wire basket, or suspended by a threaded rod from ceiling
- 60 or 80 lb. load rating
- Cable management accessories available



Part Number	Width In. (mm)	Depth In. (mm)	Height In. (mm)	No. of Rack Units	Equipment Rails	Load Capacity Lbs.	Material	Color
PZLRB4U	20.3 (515)	6.4 (161)	12.4 (317)	4	Threaded #12-24	60	Steel	Black
PZLRB6U	16 (405)		16 (405)	6		80		

### Brackets and Accessories



Part Number	Description
PZWMC12RR	PanZone® Wall Mount Cabinet 12 RU Rear Rails Kit.
WME0UB	0 RU Bracket for Vertical Wall Mount Enclosure.
WME31RU	1 RU Bracket for WME3BL.
WME3ERAIL	Equipment Rails for WME3BL.
WMEBR	Wall Mount Enclosure Brushed Entry Kit.
WBH1	Hinged Wall Mount Bracket, 1 RU, 6 inches in depth (152mm).





## Grounding and Bonding Equipment Bonding Jumper Kit

- Bonds the rack or cabinet to the MCBN
- Engineered to comply with US and International grounding requirements

- HTAP is UL Listed and CSA Certified for applications up to 600 V when crimped with Panduit and specified competitor crimping tools, and Panduit crimping dies



Part Number	MCBN Conductor Size AWG	Description
<b>BEST SELLER</b> RGCBNJ660P22	HTCT2-2.1	#6 AWG (16mm <sup>2</sup> ) jumper; 60" (1.52m) length; 45° bent lug on grounding strip side; provided with .16 oz. (5cc) of antioxidant, two each #12-24 x 1/2", M6 x 12mm, #10-32 x 1/2" and M5 x 12mm thread-forming screws and a copper compression HTAP* for connecting to the MCBN.

\*HTAPs also sold separately.



## Grounding Busbar



Part Number	Description
<b>Grounding Busbar Kits for Threaded Rail Fasteners</b>	
<b>BEST SELLER</b> RGRB19U	Grounding busbar; 19" (483mm) length; tin-plated; 20 holes arranged for flexibility in mounting with 20 #12-24 x 1/2" hex head screws installed; mounting hole sets have 5/8" (15.9mm) spacing; provided with two each #12-24 x 1/2", M6 x 12mm thread-forming screws, and two #12 flat washers for mounting.



## Grounding Strip

- Bonds up to 45 RU per Rack with Threaded Rail Fasteners with an EIA Universal Mounting Hole Pattern

- Engineered to comply with US and international grounding requirements



Part Number	Description
<b>BEST SELLER</b> RGS134-1Y	Grounding strip; 78.65" (2m) length; .67" (17mm) width; .05" (1.27mm) thickness; provided with .16 oz. (5cc) of antioxidant, one grounding sticker and three each #12-24 x 1/2" and M6 x 12mm thread-forming screws.

## **PATENTED** Green Bonding Cage Nut Kit

- Creates an electrical bond between the mounting rails and equipment that conforms to EIA-310 specifications for racks and cabinets

- Made from high carbon steel and installed with a Phillips, flat blade, or nut screwdriver



Part Number	Description
<b>BEST SELLER</b> CNBK	Green bonding cage nut, includes 50 #12-24 bonding cage nuts (.06 – .11 thick panel) and 50 #12-24 x 1/2" bonding screws with #2 Phillips/slotted combo hex head (use 5/16" or 8mm socket).

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### SmartZone™ G5 Power Distribution Units (PDUs)



1U (SLIM)



1U



2U



0U HALF



0U MID



0U FULL

B. Copper Systems

C. Fiber Systems

### Dimensions

Form Factor	Height In. (mm)	Width In. (mm)	Depth In. (mm)
1U (SLIM)	1.6 (40.6)	17.5 (444.5)	2.0 (50.8)
1U	1.7 (43.2)		7.8 (198.1)
2U	3.4 (86.4)		
0U HALF	32.2 (817.9)	2.0 (50.8)	2.1 (53.3)
0U MID	58.7 (1491)		2.1 (53.3)
0U FULL	68.9 (1750.1)		

**Mounting:** Vertical units do not occupy the EIA space. Horizontal units mount in standard (1U or 2U) EIA rack space.

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### Monitored Input (MI Series)

- Provides aggregate PDU monitoring to quickly identify potential power issues and reclaim available or under-utilized power capacity
- Can also be used for environmental monitoring through sensors and electronic rack access control through electronic swing-handles (each sold separately)

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

Part Number	Input Current per Phase	Form Factor	Input Plug Type	Apparent Power kVA	Outlet Count	Outlet Type	Length In.	Width In.	Depth In. at Outlet Position
-------------	-------------------------	-------------	-----------------	--------------------	--------------	-------------	------------	-----------	------------------------------

#### 100-240VAC, 1-Phase

P08D09M	15	1U	5-15P	1.4	8	(8)5-20R	1.7	17.5	10.6
<b>BEST SELLER</b> P16D22M	20	0U HALF	L5-20P	1.9	16	(16)5-20R	32.2	17.5	10.6
<b>BEST SELLER</b> P24D24M			L6-20P	3.3		(20)C13, (4)C19			
<b>BEST SELLER</b> P24D23M	30	0U MID	L5-30P	2.9	24	(24)5-20R	58.7	2.0	2.1
<b>BEST SELLER</b> P24D07M			L6-30P	5.0		(20)C13,(4)C19			
<b>BEST SELLER</b> P38D25M			0U FULL	38		(32)C13, (6)C19			

#### 208VAC, 3-Phase

<b>BEST SELLER</b> P36D08M	30	0U FULL	L15-30P	8.6	36	(30)C13, (6)C19	68.9	2.0	2.1
<b>BEST SELLER</b> P38D28M			L21-30P			38			
P36D29M	50		CS8365C	10.0	36	(30)C13, (6)C19			
<b>BEST SELLER</b> P24D34M	60	0U FULL - 2 sided	IEC 60309 3P+E 9h	17.3	24	(12)C13, (12)C19	71.7	2.0	4.4
<b>BEST SELLER</b> P48D35M			IEC 60309-460P9			48			

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## Monitored Switched (MS Series)

- Provides aggregate power monitoring as well as outlet level switching capabilities for individual outlets or an outlet bank
- Can also be used for environmental monitoring through sensors and electronic rack access control through electronic swing-handles (each sold separately)

Part Number	Input Current per Phase	Form Factor	Input Plug Type	Apparent Power kVA	Outlet Count	Outlet Type	Length In.	Width In.	Depth In. at Outlet Position
-------------	-------------------------	-------------	-----------------	--------------------	--------------	-------------	------------	-----------	------------------------------

### 100-240VAC, 1-Phase

<b>BEST SELLER</b> P24E28M	30	0U FULL	L6-30P	5.0	24	(20)C13, (4)C19	68.9	2.0	2.1
<b>BEST SELLER</b> P16E19M		2U	L6-30P	5.0	16	(12)C13, (4)C19	3.4	17.5	10.6
P36E33M	20	0U FULL	L6-30	5.0	36	(30)C13, (6)C19	68.9	2.0	2.1
P12E21M		0U Half	5-20P	1.9	12	(12)5-20R	36.1		

### 208VAC, 3-Phase

P36E35M	30	0U FULL	L21-30P	8.6	24	(30)C13, (6)C19	68.9	2.0	2.1
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## Monitored Per Outlet (MPO Series)

- Can provide outlet level and aggregate power monitoring to quickly identify potential power issues and reclaim available or under-utilized power capacity at the outlet level
- Can also be used for environmental monitoring through sensors and electronic rack access control through electronic swing-handles (each sold separately)

Part Number	Input Current per Phase	Form Factor	Input Plug Type	Apparent Power kVA	Outlet Count	Outlet Type	Length In.	Width In.	Depth In. at Outlet Position
-------------	-------------------------	-------------	-----------------	--------------------	--------------	-------------	------------	-----------	------------------------------

### 100-240VAC, 1-Phase

P24F01M	30	0U FULL	L6-30P	5.0	24	(20)C13, (4)C19	68.9	2.0	2.1
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## Monitored and Switched Per Outlet (MSPO Series)

- Can provide outlet level and aggregate power monitoring and outlet level switching capabilities or individual or a group of outlets
- Can also be used for environmental monitoring through sensors and electronic rack access control through electronic swing-handles (each sold separately)

Part Number	Input Current per Phase	Form Factor	Input Plug Type	Apparent Power kVA	Outlet Count	Outlet Type	Length In.	Width In.	Depth In. at Outlet Position
-------------	-------------------------	-------------	-----------------	--------------------	--------------	-------------	------------	-----------	------------------------------

### 100-240VAC, 1-Phase

<b>BEST SELLER</b> P24G01M	30	0U FULL	L6-30P	5.0	24	(20)C13, (4)C19	68.9	2.0	2.1
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### 208VAC, 3-Phase

<b>BEST SELLER</b> P36G18M	30	0U FULL	L6-30P	5.0	36	(30)C13, (6)C19	68.9	2.0	2.1
P36G19M			L21-30P	8.6	24	(18)C13, (6)C19			
P24G05M	IEC 60309 3P+E 9h		24	(12)C13, (12)C19					
P48G21M	60	U FULL - 2 sided	IEC 60309-460P9	17.3	48	(36)C13, (12)C19	71.7		4.4

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### Basic

- Basic PDUs have the capability to distribute highly reliable power to IT equipment in the rack or cabinet

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Part Number	Input Current per Phase	Form Factor	Input Plug Type	Apparent Power kVA	Outlet Count	Outlet Type	Length In.	Width In.	Depth In. at Outlet Position
<b>100-120VAC, 1-Phase</b>									
P12B01M	15	1U	5-15P	1.4	12	(12)5-20R	1.6	17.5	2.0
P12B19M	20		5-20P	1.9					
P12B30M			L5-20P						
P16B04M	15	0U Half	5-15P	1.4	16	(16)5-20R	32.2	2.0	2.1
P16B07M	20	0U HALF	5-20P	1.9					
<b>BEST SELLER</b> P16B08M			L5-20P						
P22B09M	30		L5-30P	2.9	22	(22)5-20R			
<b>240VAC 1-Phase</b>									
P22B10M	20	0U HALF	L6-20P	3.3	22	(20)C13, (2)C19	32.2	2.0	2.1
<b>208VAC, 1-Phase</b>									
<b>BEST SELLER</b> P12B47M	30	0U FULL	L6-30P	8.6	36	(30)C13, (6)C19	68.9	2.0	2.1
<b>BEST SELLER</b> P42B17M	50			14.4	24	(12)C13, (12)C19			
<b>208VAC, 3-Phase</b>									
<b>BEST SELLER</b> P30B25M	30	0U MID	L21-30P	8.6	30	(24)C13, (3)C19, (3)5-20R	58.7	2.0	2.1
P36B26M					36	(30)C13, (6)C19			
P24B14M	60	0U FULL	IEC 60309	17.3	24	(12)C13, (12)C19	68.9		

### SmartZone™ G5 Accessories

Part Number	Description
ACF05	SmartZone™ Security Handle with Dual Frequency (125 kHz and 13.56 MHz) Card Reader and integral humidity sensor. All handles feature the base tumbler (TU020X) pre-installed at the factory.
ACF06	SmartZone™ Security Handle with Dual Frequency (125 kHz and 13.56 MHz) Card Reader, integral humidity sensor, and keypad for dual authentication. All handles feature the base tumbler (TU020X) pre-installed at the factory.
ACF10	SmartZone™ Security Handle Temperature and Door Sensor. Connects only to ACF05 and ACF06.
ACF11	SmartZone™ Security Handle (3) Temperature and Door Sensor. Connects only to ACF05 and ACF06.
ACF20	SmartZone™ Security Handle to Panduit G5 iPDU Harness (JST to RJ45 Male).
MA030	SmartZone™ Security Handle Patch Cord Extension (RJ45 Female to RJ45 Male).
MA031	SmartZone™ G5 iPDU Power Share Patch Cord (RJ45 Male to RJ45 Male).



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### € Tak-Ty® Hook & Loop Cable Ties

- Soft, premium material is safe to use on high performance network cables protecting against over-tensioning
- Broad selection of durable designs and sizes
- Adjustable, releasable, and re-usable hundreds of times – ideal for applications requiring frequent moves, adds, or changes
- Easy to use and operator safe with no sharp edges
- A full range of colors
- Operating temperature range: 0°F to 220°F (-18°C to 104°C)
- Complementary mounts available



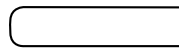
HLT (Loop Ties)



HLB (Stacked Strips)



HLM/HLS (Rolls)



Part Number	Length		Width		Max. Bundle Dia.		Min. Loop Tensile Strength*	
	In.	mm	In.	mm	In.	mm	Lbs.	N

#### Loop Ties – Slot allows for pre-wrapping of bundles

Part Number	Length (In.)	Length (mm)	Width (In.)	Width (mm)	Max. Bundle Dia. (In.)	Max. Bundle Dia. (mm)	Min. Loop Tensile Strength (Lbs.)	Min. Loop Tensile Strength (N)
<b>BEST SELLER</b> HLT2I-X0	8.00	203.0	0.50	12.7	1.91	49.0	40	178
HLT2I-M0								
HLT2I-X6								
HLT2I-X7								
HLT2I-X10								
HLT2I-X15								
HLT2I-X16	12.00	305.0	0.75	19.1	3.18	81.0	50	222
HLT3I-X0								
HLT3I-X6								
HLT3I-M0								
HLT3I-X7								
HLT3I-X10								
HLT3I-X15								
HLT3I-X16								

#### Stacked Strip Ties – Eliminates cutting ties to length and staging them for each job Rounded edges for installer safety – 100 pieces

HLB2S-C0	7.00	178.0	0.75	19.1	1.60	41.0	50	222
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\*Minimum 2 inch overlap required to achieve loop tensile rating.

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## ⊂ ⊂ Tak-Ty® Hook & Loop Cable Ties (continued)

Part Number	Length		Width		Max. Bundle Dia.		Min. Loop Tensile Strength*	
	Ft.	m	In.	mm	In.	mm	Lbs.	N
<b>15' and 75' Continuous Rolls – Can be cut to desired length, eliminating waste</b>								
<b>BEST SELLER</b> HLM-15R0	15.0	4.6	0.33	8.40	Various	Various	18	80
HLM-15R6								
HLM-15R7								
HLM-15R10								
HLM-15R15								
HLM-15R16								
<b>BEST SELLER</b> HLS-15R0	75.0	22.9	0.75	19.1	Various	Various	50	222
HLS-15R7								
HLS15R10								
HLS-15R15								
HLS15R16								
<b>BEST SELLER</b> HLS-75R0	75.0	22.9	0.75	19.1	Various	Various	50	222
HLS-75R6								
HLS-75R7								
HLS-75R15								
HLS-75R16								

\*Minimum 2 inch overlap required to achieve loop tensile rating.

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### HLTP/HLSP Hook and Loop Cable Ties – Plenum

- Soft, premium material is safe to use on high performance network cables protecting against over-tensioning
- UL Listed for use in plenum or air handling spaces (such as ceiling voids and underfloor areas) per NEC, Section 300-22 (C) and (D)
- Material flammability rating: UL 94V-2
- Adjustable, releasable, and re-usable – ideal for applications requiring frequent moves, adds, or changes
- Operating temperature range: 0°F – 122°F (-18°C – 50°C)



Part Number	Length		Width		Max. Bundle Dia.		Min. Loop Tensile Str.*	
	In.	m	In.	mm	In.	mm	Lbs.	N

#### UL Listed Loop Ties (Maroon) – Slot allows for pre-wrapping of bundles

HLTP2I-X12	8.00	203.0	0.50	12.7	1.91	49.0	40	178
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#### UL Listed Loop Ties (Black) – Slot allows for pre-wrapping of bundles

HLTP3I-X0	12.00	305.0	0.50	12.7	3.18	81.0	40	178
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#### UL Listed Strip Ties (Maroon) – Perforated in convenient 12 and 18 inch strips

HLSP3S-X12	12.00	305.0	0.75	19.1	3.20	81.0	50	222
HLSP5S-X12	18.00	457.0			5.00	127.0		

#### UL Listed Strip Ties (Black) – Perforated in convenient 6, 12, and 18 inch strips

HLSP1.5S-X0	6.00	152.0	0.75	19.1	1.50	38.0	50	222
HLSP3S-X0	12.00	305.0			3.20	81.0		
HLSP5S-X0	18.00	457.0			5.00	127.0		

\*Minimum 2 inch overlap required to achieve loop tensile rating.



### € Tak-Tape™ Hook & Loop Cable Tie Rolls

- Strong, low profile, flexible material is safe to use on high performance cabling protecting against over-tensioning
- Adjustable, releasable, and re-usable
- Cost-effective for general purpose bundling
- Leaves no residue
- Available in black color
- Operating temperature range: 0°F – 220°F (-17°C – 104°C)



Part Number	Length		Width		Max. Bundle Dia.		Min. Loop Tensile Str.*	
	Ft.	m	In.	mm	In.	mm	Lbs.	N
TTR-20R0	20.0	6.1	0.75	19.1	Various	Various	40	178
TTR-35R3-0	35.0	10.7						
TTR-35RX0								
TTR-75R0	75	22.9						

\*Minimum 2 inch overlap required to achieve loop tensile rating.

## Ultra-Cinch™ Hook & Loop Cable Ties

- Unique material with hooks and loops on same side allows user to secure a greater range of bundle diameters, including smaller bundles
- Soft, premium material is safe to use on high performance cabling, protecting against over-tensioning
- Adjustable, releasable, and re-usable – ideal for applications requiring frequent moves, adds, or changes
- Low profile contoured cinch ring provides extra strength and bundle tightness while reducing overall bundle size
- Grommet (UGCTC and UGCTE styles) offers strength and assures reliable installations that resist pullout when bundling and mounting cables within cabinet applications
- Tapered tip facilitates easy, snag-free threading to speed installation
- Use flat head screws for grommet applications
- A full range of colors
- Operating temperature range: 0°F – 140°F (-18°C – 60°C)



Part Number	Length		Width		Max. Bundle Dia.		Min. Loop Tensile Str.*	
	In.	m	In.	mm	In.	mm	Lbs.	N
<b>Cinch Ties</b>								
UCT3S-X0	12.00	305.0	0.85	21.6	3.00	76.0	50	222
<b>Cinch Ties with Brass Grommet</b>								
UGCTC3S-X0	12.00	305.0	0.85	21.6	3.00	76.0	50	222
UGCTE3S-X0	12.00	305.0			3.00	76.0		

0.25 inch (6mm) diameter mounting hole on grommet style cinch ties.  
 \*Minimum 2 inch overlap required to achieve loop tensile rating.

## Cable Bundle Organizing Tool

- Reduces cable installation time compared to traditional methods
- Arranges 24 cables prior to applying Panduit® Tak-Ty® Hook & Loop Cable Ties
- Optimizes bundle size and improves installed appearance
- Two inserts handle multiple network cable diameters
- Ergonomic fit and compact design
- Impact resistant material and low friction design to glide smoothly across cable bundle



Part Number	Description	Insert Color	Cable Diameter Range	
			In.	mm
<b>CBOT24K</b>	Kit contains jacket cover with hook and loop fastener and two inserts.	Fluorescent Green	0.18 – 0.25	4.6 – 6.3
		Fluorescent Yellow	0.23 – 0.31	5.8 – 7.9



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## ☞ Elastomeric Cable Ties

- Elastic material provides a flexible tie body that safely contours around cable bundle, preventing over-tensioning of data cables to maintain network integrity
- Constructed of TPU Material
- UL 94V-0 material provides greater flame resistance; meets stringent telecommunication flammability requirements (such as NEBS GR-63-CORE)
- Soft material has no sharp edges; protects the installer and the cable bundle
- High coefficient of friction grips and prevents lateral movement along cable bundle
- Releasable and re-usable to accommodate frequent moves, adds, and changes
- Halogen-free, non-toxic, and environmentally safe material will not release toxic or corrosive gases upon combustion
- Locking head design; the tapered tip threads into locking head to speed productivity; industry-accepted intuitive tie design



Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.	
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N
ERT2M-C20	8.50	216.0	0.50	12.7	0.09	2.3	2.35	59.7	18	80

-C indicates 100 per package. 20 indicates black.

## Tak-Ty® Hook & Loop Cable Tie Mounts

- For use with TTS Tak-Tape™ and HLT/HLS Tak-Ty® Hook & Loop Cable Ties
- Unique cradle design provides maximum stability for cable bundle
- For indoor use only
- Dimensions: 1.12 inches L x 1.12 inches W x .34 inches H (28.4mm x 28.4mm x 8.6mm)



Part Number	Mounting Method	Material	Color
ABMT-A-C*	Pre-installed Rubber Adhesive	Nylon 6.6	Natural
ABMT-A-Q20*			Black
<b>BEST SELLER</b> ABMT-A-C20*	#6 (M3) Screw		Natural
ABMT-S6-C			Black
<b>BEST SELLER</b> ABMT-S6-C20			

\*Maximum static load for adhesive backed mounts is .38 lbs. (174g).  
-Q indicates 25 per package, -C indicates 100 per package.



JP2W-L20



JP2CMB-L20



JP2DW-L20

## J-Pro™ Cable Support System



Part Number	Description	Max. Bundle Capacity		Max. Cable Capacity*			Material**
		In.	mm	Category 6A-SD/6A (0.30")	Category 6 (0.24")	Category 5e (0.23")	
<b>Wall Mount</b>							
JP75W-L20	J Hook for wall mount applications. One 1/4" (M6) mounting hole for user supplied fastener. Not for use with powder actuated fasteners.	0.75	19.0	5	8	10	Nylon 6.6
JP131W-L20		1.31	33.3	15	25	29	
<b>BEST SELLER</b> JP2W-L20		2.00	50.8	30	46	55	
JP4W-X20		4.00	101.6	115	180	200	
<b>Ceiling Mount</b>							
JP75CMB-L20	J Hook with ceiling mount bracket that has one 3/16" (M5), 1/4" (M6), and 3/8" (M10) mounting hole.	0.75	19.0	5	8	10	Nylon 6.6 J Hook with Metal Attachments
JP131CMB-L20		1.31	33.3	15	25	29	
JP2CMB-L20		2.00	50.8	30	46	55	
JP4CMB-X20		4.00	101.6	115	180	200	
<b>Drop Wire and Threaded Rod Clip</b>							
<b>BEST SELLER</b> JP75DW-L20	J Hook with clip for use with #12 wire, threaded rod up to 3/8" (9.5mm) in diameter, or 1/8" - 1/4" (3.2mm - 6.4mm) thick flanges.	0.75	19.0	5	8	10	Nylon 6.6 J Hook with Metal Attachments
<b>BEST SELLER</b> JP131DW-L20		1.31	33.3	15	25	29	
<b>BEST SELLER</b> JP2DW-L20		2.00	50.8	30	46	55	
<b>BEST SELLER</b> JP4DW-X20		4.00	101.6	115	180	200	



\*The above cable diameters represent the nominal Panduit cable diameter per performance level. For specific cable fill information based on specific part numbers, please contact Customer Service.  
 \*\*Suitable for use in air handling spaces in accordance with Sec. 300.22(C) and (D) of the National Electrical Code when mounted as single units or in pairs. JP4 family of parts suitable for use in single unit configurations only. Listed in accordance with CAN/ULC S102.2 when mounted as single units or in pairs. Minimum spacing of 4 feet (1220mm) required between mount points. (Flame Spread Rating = 0, Smoke Developed Classification = 20).

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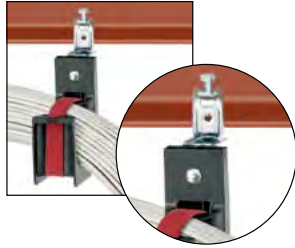
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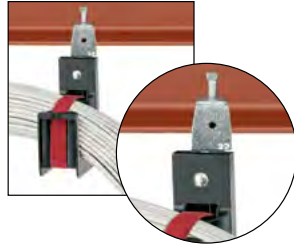
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JP2SBC50RB-L20



JP4SBC50-X20

### J-Pro™ Cable Support System (continued)



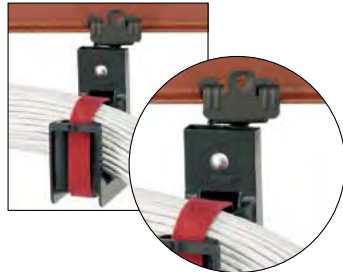
JP131SBC50-L20



JP2SBC50RB-L20

Part Number	Description	Max. Bundle Capacity		Max. Cable Capacity*			Material**
		In.	mm	Category 6A-SD/6A (0.30")	Category 6 (0.24")	Category 5e (0.23")	
<b>Screw-On Beam Clamps</b>							
JP131SBC50-L20	J Hook with screw-on beam clamp for use with flanges up to 1/2" (12.7mm) thick. Rotates 360 degrees.	1.31	33.3	15	25	29	Nylon 6.6 J Hook with Metal Attachments
JP4SBC50-X20		4.00	101.6	115	180	200	
<b>BEST SELLER</b> JP75SBC50RB-L20		0.75	19.0	5	8	10	
JP2SBC50RB-L20		2.00	50.8	30	46	55	

\*The above cable diameters represent the nominal Panduit cable diameter per performance level. For specific cable fill information based on specific part numbers, please contact Customer Service.  
 \*\*Suitable for use in air handling spaces in accordance with Sec. 300.22(C) and (D) of the National Electrical Code when mounted as single units or in pairs. JP4 family of parts suitable for use in single unit configurations only. Listed in accordance with CAN/ULC S102.2 when mounted as single units or in pairs. Minimum spacing of 4 feet (1220mm) required between mount points. (Flame Spread Rating = 0, Smoke Developed Classification = 20).



JP2HBC25RB-L20

### J-Pro™ Cable Support System (continued)



JP2HBC25RB-L20  
JP2HBC50RB-L20

Part Number	Description	Max. Bundle Capacity		Max. Cable Capacity*			Material**
		In.	mm	Category 6A-SD/6A (0.30")	Category 6 (0.24")	Category 5e (0.23")	
<b>Hammer-On Beam Clamps</b>							
JP75HBC25RB-L20	J Hook with hammer-on beam clamp for use with flanges	0.75	19.0	5	8	10	Nylon 6.6 J Hook with Metal Attachments
JP131HBC25RBL20	with flanges	1.31	33.3	15	25	29	
JP2HBC25RB-L20	1/8" – 1/4" (3.2mm – 6.4mm) thick. Rotates 360 degrees.	2.00	50.8	30	46	55	
JP4HBC25RB-X20		4.00	101.6	115	180	200	
JP75HBC50RB-L20	J Hook with hammer-on beam clamp for use with flanges 5/16"	0.75	19.0	5	8	10	
JP131HBC50RBL20	– 1/2" (7.9mm – 12.7mm) thick. Rotates 360 degrees.	1.31	33.3	15	25	29	
JP2HBC50RB-L20		2.00	50.8	30	46	55	
JP4HBC50RB-X20		4.00	101.6	115	180	200	

\*The above cable diameters represent the nominal Panduit cable diameter per performance level. For specific cable fill information based on specific part numbers, please contact Customer Service.  
 \*\*Suitable for use in air handling spaces in accordance with Sec. 300.22(C) and (D) of the National Electrical Code when mounted as single units or in pairs. JP4 family of parts suitable for use in single unit configurations only. Listed in accordance with CAN/ULC S102.2 when mounted as single units or in pairs. Minimum spacing of 4 feet (1220mm) required between mount points. (Flame Spread Rating = 0, Smoke Developed Classification = 20).

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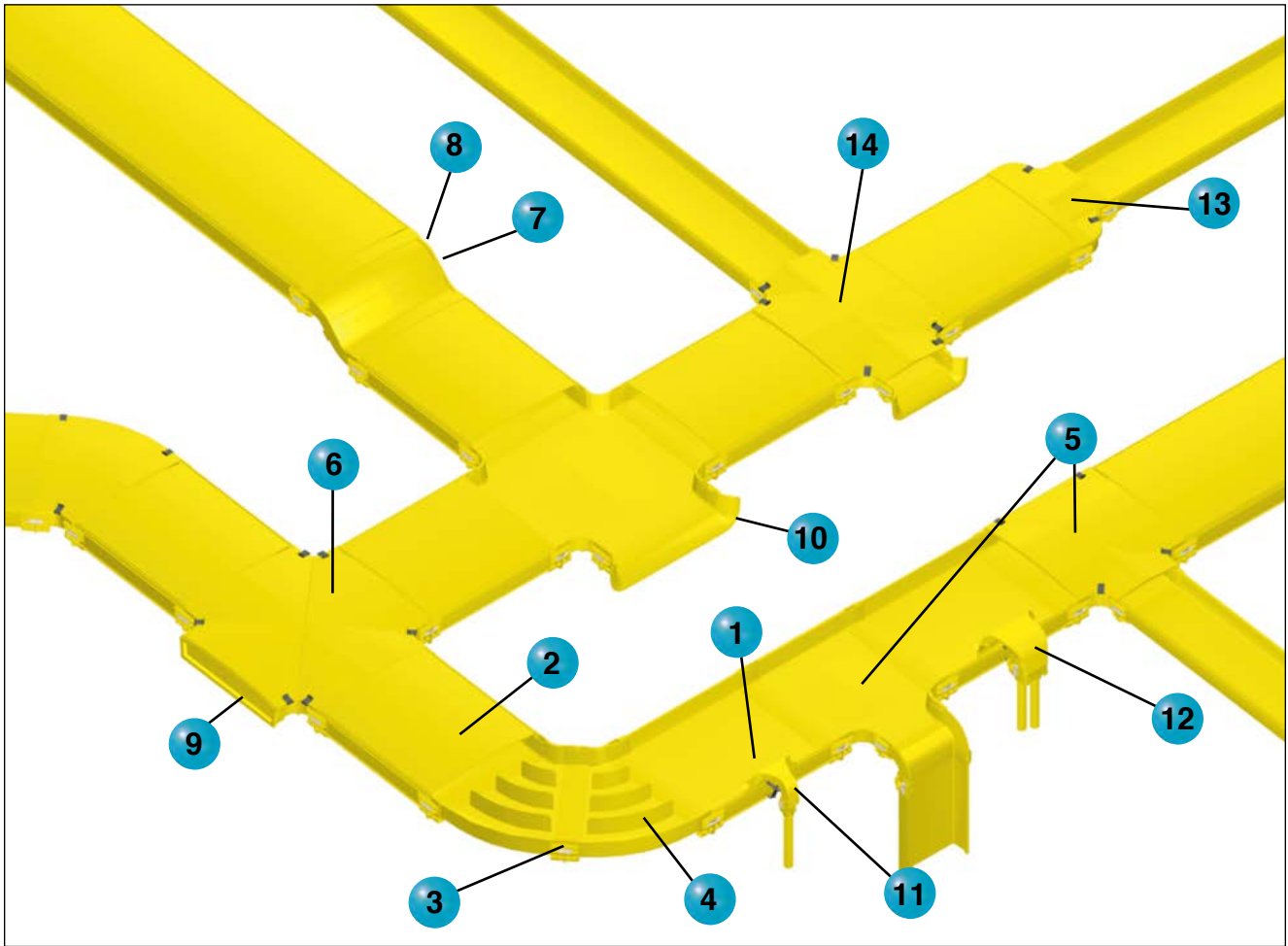
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### 24x4 Routing System Roadmap



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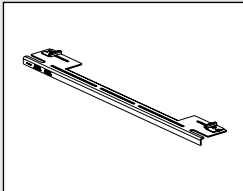
I. Cable Management Accessories

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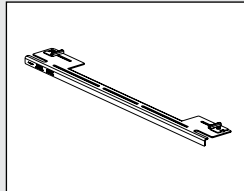
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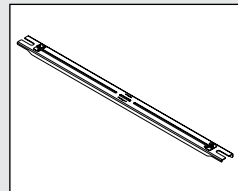
### 24x4 FiberRunner® Mounting Brackets



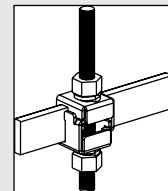
FR24TBE12 – Existing Threaded Rod QuikLock™ Bracket (page J.6)



FR24TBN12 - New Threaded Rod QuikLock™ Bracket (page J.6)

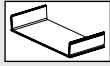


FRTBWG30BL - Wyr-Grid® Mounting Bracket for FiberRunner® System (page J.6)

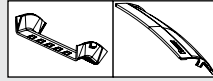


F2PCLB12 - Two-Piece Ladder Rack Bracket for Attaching Threaded Rod to 1.5" - 2" Ladder Rack (page J.6)





**1** FR24X4\*\*10 – 24x4 FiberRunner® Channel (page J.4)



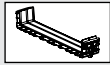
**8** FROV4524X4L\*\* – 24x4 Outside Vertical 45° Angle Fitting and FROV45CV24L\*\* – Cover (page J.5)



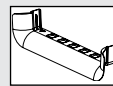
**2** FRCV24\*\*10 – 24x4 Snap-On Cover (page J.4)



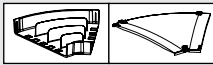
**9** FRECV24X4L\*\* – 24x4 End Cap Fitting (page J.5)



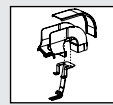
**3** FRBC24X4L\*\* – 24x4 QuikLock™ Coupler (page J.4)



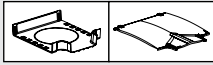
**10** FRTR24X4L\*\* – 3-Sided BRC Trumpet Spillover for 24x4 Exit (page J.5)



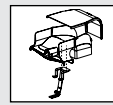
**4** FRH4524X4L\*\* – 24x4 Horizontal 45° Angle Fitting and FRH45CV24L\*\* – Cover (page J.4)



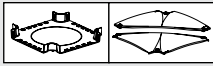
**11** FRSPJ2X2L\*\* – Spill-Over Junction with 2x2 Exit (page J.30)



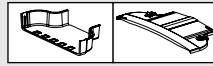
**5** FRT24X4W12L\*\* – 24x4 Horizontal Tee with 12x4 Exit and FRTC24W12L\*\* – Cover (page J.4)



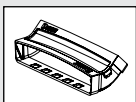
**12** FRSPJ4X4L\*\* – Spill-Over Junction with 4x4 Exit (page J.24)



**6** FRFWC24X4L\*\* – 24x4 4-Way Cross Fitting and FRFWCCV24L\*\* – Cover (page J.4)



**13** FRRF2412L\*\* – 24x4 to 12x4 FiberRunner® Reducer Fitting and FRRF2412CVL\*\* – Cover (page J.5)



**7** FRIV4524X4L\*\* – 24x4 Inside Vertical 45° Angle Fitting (page J.5)



**14** FRFWC24X4W12L\*\* – 24x4 4-Way Cross Fitting with 12x4 Exits and FRFWCCV24W12L\*\* – Cover (page J.4)

\*\*Available colors: YL (Yellow), and BL (Black).

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A. Product Showcase

### 24x4 FiberRunner® Routing System – Channel and Cover

- Robust, large capacity 24x4 system ideal for use with large cable counts
- QuikLock™ Couplers and Brackets reduce system installation time dramatically
- Channel, covers, fittings and other non-metallic system components made from V-0 flame class rated material
- Compatible with all sizes of Panduit® FiberRunner® Routing Systems, Cable Management, and Racks

B. Copper Systems

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FR24X4YL10



FRCV24YL10

D. Industrial Networks

E. Audio Video Systems

### 24x4 FiberRunner® QuikLock™ Coupler

- Pre-assembled to provide fast mechanical assembly of components
- No tools required for installation; bolts loosen for component disassembly



FRBC24X4LYL

F. Keystone Cabling Systems

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

### 24x4 FiberRunner® System Fittings

- Minimum 3 inch (76.2mm) bend radius control fittings
- Protect against signal loss and performance degradation
- Assemble using FRBC QuikLock™ Couplers



FRFWC24X4LYL



FRFWC24X4W12LYL



FRH4524X4LYL



FRT24X4W12LYL



FRTC24W12LYL

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Part Number	Description	Color
<b>24x4 Channel</b>		
FR24X4YL10	Used to carry cables horizontally throughout the system. Use QuikLock™ Coupler FRBC24X4LYL to attach channel and/or fittings.	Yellow
<b>24x4 Snap-On Cover</b>		
FRCV24YL10	Snap-on cover for channel FR24X4YL10. Supplied in four 30" long pieces.	Yellow

For other colors replace YL (Yellow) with BL (Black).

Part Number	Description	Color
FRBC24X4LYL	Coupler quickly joins two sections of channel and/or fittings.	Yellow

For other colors replace YL (Yellow) with BL (Black).

Part Number	Description	Couplers Required	Color
<b>24x4 Four-Way Cross Fitting</b>			
FRFWC24X4LYL	Attaches to a 24x4 channel and/or fittings to create a horizontal four-way cross intersection with two 24x4 exits. Accepts split cover FRFWCCV24LYL.	(4 pcs.) FRBC24X4LYL	Yellow
<b>24x4 Four-Way Cross Fitting with 12x4 Exits</b>			
FRFWC24X4W12LYL	Attaches to a 24x4 channel and/or fittings to create a horizontal four-way cross intersection with two 12x4 exits. Accepts split cover FRFWCCV24W12LYL.	(2 pcs.) FRBC24X4LYL	Yellow
<b>24x4 Horizontal 45° Angle Fitting</b>			
FRH4524X4LYL	Attaches to a 24x4 channel and/or fittings to create a 45° horizontal turn from a straight horizontal run.	(2 pcs.) FRBC24X4LYL	Yellow
<b>24x4 Horizontal Tee with 12x4 Exits</b>			
FRT24X4W12LYL	Attaches to a 24x4 channel and/or fittings to create a 90° horizontal branch with a 12x4 exit from straight horizontal run. Accepts split cover FRTC24W12LYL.	(2 pcs.) FRBC24X4LYL (1 pc.) FRBC12X4LYL	Yellow
<b>Cover for 24x4 Horizontal Tee with 12x4 Exits</b>			
FRTC24W12LYL	Cover for the horizontal tee fitting FRT24X4W12LYL.	—	Yellow

For other colors replace YL (Yellow) with BL (Black).

## 24x4 FiberRunner® System Fittings



FRH45CV24LYL



FREC24X4LYL



FROV4524X4LYL



FROV45CV24LYL



FRIV4524X4LYL



FRRF2412LYL

Part Number	Description	Couplers Required	Color
<b>Cover for 24x4 Horizontal 45° Angle Fitting</b>			
FRH45CV24LYL	Cover for the horizontal 45° angle fitting FRH4524X4LYL.	—	Yellow
<b>24x4 End Cap Fitting</b>			
FREC24X4LYL	Used for closing off open ends of the channel or fittings.	—	Yellow
<b>24x4 Outside Vertical 45° Fitting</b>			
FROV4524X4LYL	Attaches to a 24x4 channel and/or fittings to create a 45° downward angle from a straight horizontal run. Used with inside vertical 45° angle fitting FRIV4524X4LYL to change level of a horizontal run.	(2 pcs.) FRBC24X4LYL	Yellow
<b>Cover for 24x4 Outside Vertical 45° Angle Fitting</b>			
FROV45CV24LYL	Cover for the outside vertical 45° angle fitting FROV4524X4LYL.	—	Yellow
<b>24x4 Inside Vertical 45° Fitting</b>			
FRIV4524X4LYL	Attaches to a 24x4 channel and/or fittings to create a 45° upward angle from a straight horizontal run. Used with outside vertical 45° angle fitting FROV4524X4LYL to change level of a straight horizontal run. Includes cover.	(2 pcs.) FRBC24X4LYL	Yellow
<b>Reducer from 24x4 to 12x4 FiberRunner® Fitting or Channel</b>			
FRRF2412LYL	Attaches any 24x4 FiberRunner® Fitting or Channel to any 12x4 FiberRunner® Fitting or Channel.	(1 pc.) FRBC24X4LYL (1 pc.) FRBC12X4LYL	Yellow

For other colors replace YL (Yellow) with BL (Black).

## 24x4 FiberRunner® System Spillouts

- Spill-overs allow safe transition from horizontal to vertical runs
- 2 inch (50.8mm) bend radius control
- Transition to channel, slotted channel, and corrugated loom tubing



FRTR24X4LYL

Part Number	Description	Couplers Required	Color
<b>3-Sided BRC Trumpet Spillout for 24x4 Exits</b>			
FRTR24X4LYL	Used to limit the bend radius of the cable to 3" (76.2mm) when exiting from the 24x4 channel or a 24x4 horizontal tee.	(1 pc.) FRBC24X4LYL	Yellow

For other colors replace YL (Yellow) with BL (Black).

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### 24x4 FiberRunner® Mounting Brackets

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Part Number	Description	For Threaded Rod Size
<b>Existing Threaded Rod QuikLock™ Mounting Bracket</b>		
FR24TBE12	Used to support the 24x4 system by spanning two 0.5" existing threaded rod drops.	0.5"
<b>New Threaded Rod QuikLock™ Bracket</b>		
FR24TBN12	Used to support the 24x4 system from new threaded rod installations.	0.5"
<b>Trapeze QuikLock™ Bracket</b>		
FR12TB2412	Used to support the 24x4 system by spanning two existing threaded rod drops.	0.5"
FR24TBN12M		12mm
<b>Center Support Bracket</b>		
FR24CSB12	Used to support the 24x4 system by spanning 0.5" existing threaded rod drops.	0.5"

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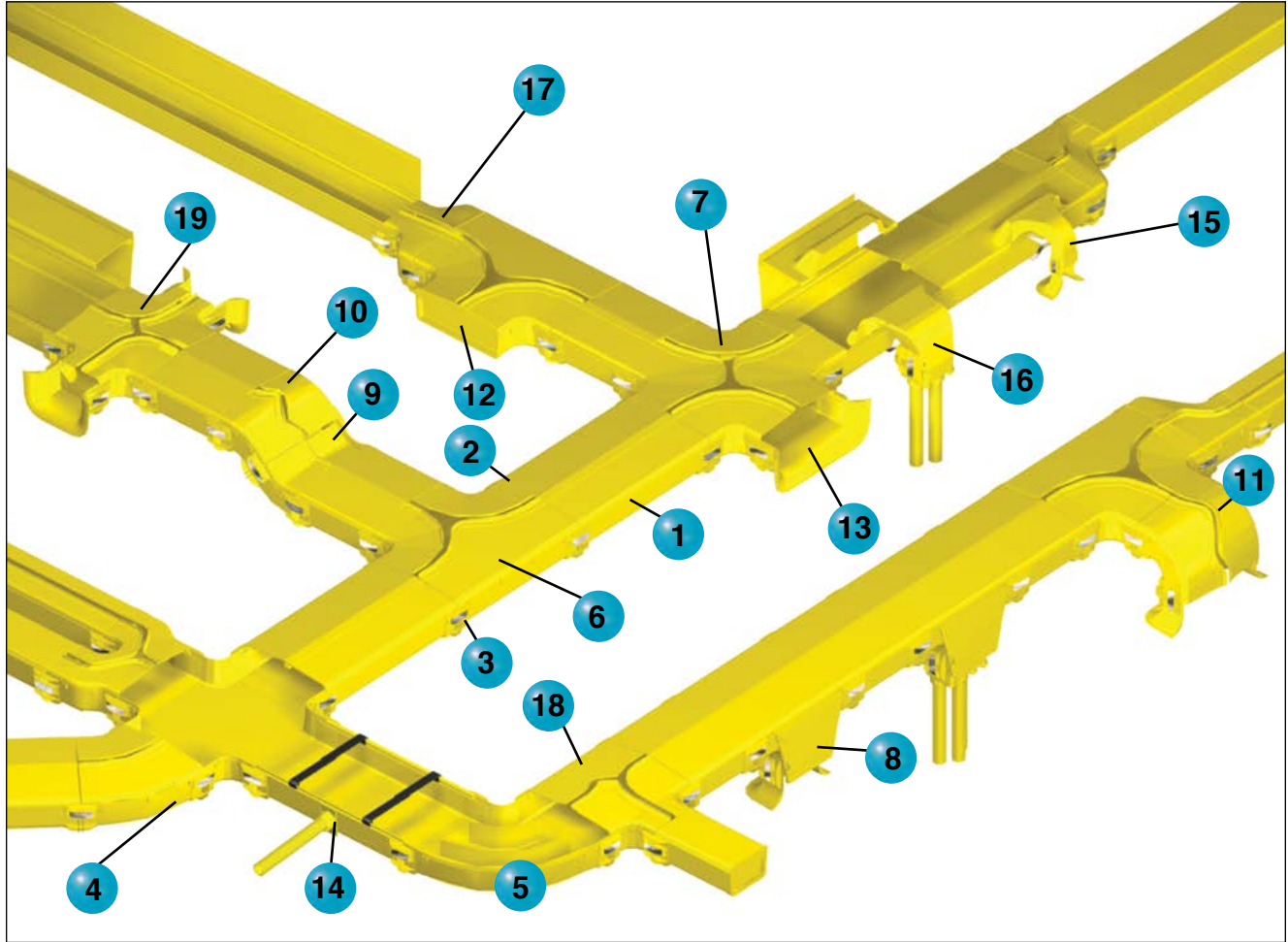
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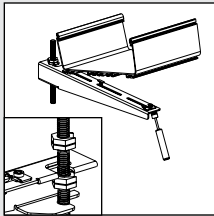
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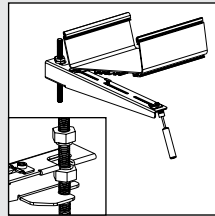
### 12x4 Routing System Roadmap



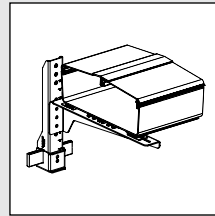
### 12x4 FiberRunner® Mounting Brackets



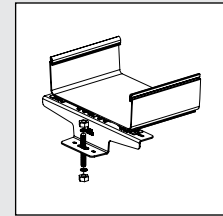
**FR12TRBE58 – Existing Threaded Rod QuikLock™ Bracket (page J.13)**



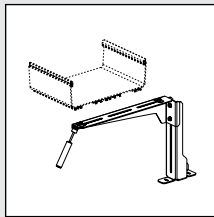
**FR12TRBN58 – New Threaded Rod QuikLock™ Bracket (page J.13)**



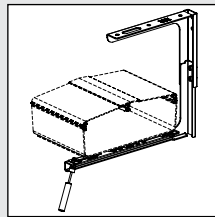
**FR12ALB – Adjustable Ladder QuikLock™ Bracket (page J.13)**



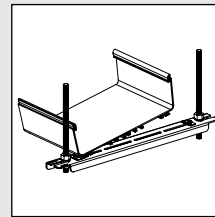
**FR12CS58 – Center Support QuikLock™ Bracket (page J.13)**



**FR12ACAB – Adjustable Cabinet QuikLock™ Bracket (page J.13)**



**FR12ACB58 – Top Support Adjustable ‘C’ QuikLock™ Bracket (page J.13)**



**FR12TB58 – Trapeze QuikLock™ Bracket (page J.13)**

A. Product Showcase

B. Copper Systems

C. Fiber Systems

D. Industrial Networks

E. Audio Video Systems

F. Keystone Cabling Systems

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

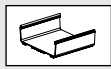
H. Power Management

I. Cable Management Accessories

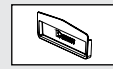
J. Cable Routing Systems

K. Surface Raceway

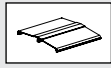
L. Part Number Index



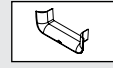
**1** FR12X4\*\* – 12x4 FiberRunner® Channel (page J.10)



**12** FREC12X4\*\* – 12x4 End Cap Fitting (page J.10)



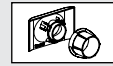
**2** FRHC12\*\* – 12x4 Snap-On Hinged Cover (page J.10)



**13** FRTR12X4\*\* – 3-Sided BRC Trumpet Spillover for 12x4 Exit (page J.12)



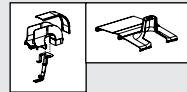
**3** FRBC12X4L\*\* – 12x4 QuikLock™ Coupler (page J.11)



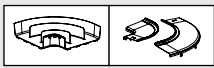
**14** FR1.5IDEL\*\* – 1-Port Spillover Side Exit to 1.5" (38mm) Inside Diameter Corrugated Tubing (page J.30)



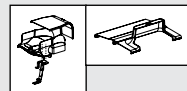
**4** FRH4512X4\*\* – 12x4 Horizontal 45° Angle Fitting and FRH45SC12L\*\* – Split Cover (page J.11)



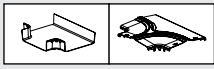
**15** FRSPJ2X2L\*\* – Spill-Over Junction with 2x2 Exit (J.30) and FRSPJC212L\*\* – Cover for 12x4 System



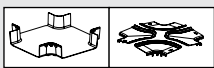
**5** FRRA12X4\*\* – 12x4 Horizontal Right Angle Fitting and FRRASC12L\*\* – Split Cover (page J.11)



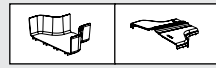
**16** FRSPJ4X4L\*\* – Spill-Over Junction with 4x4 Exit (page J.24) and FRSPJC412L\*\* – Cover for 12x4 System (page J.12)



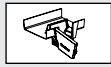
**6** FRT12X4L\*\* – 12x4 Horizontal Tee Fitting and FRTSC12L\*\* – Split Cover (page J.11)



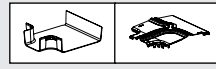
**7** FRFWC12X4L\*\* – 12x4 4-Way Cross Fitting and FRFWCSC12L\*\* – Split Cover (page J.10)



**17** FRRF126LS\*\* – 12x4 to 6x4 FiberRunner® Reducer Fitting and FRRF126SCL\*\* – Split Cover (page J.13)



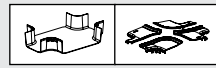
**8** FRVT12X4L\*\* – 12x4 Vertical Tee (page J.12)



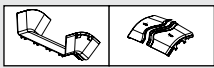
**18** FRT12X4W6L\*\* – 12x4 Horizontal Tee with 6x4 Exit and FRTSC12W6\*L\*\* – Split Cover (page J.12)



**9** FRIV4512X4L\*\* – 12x4 Inside Vertical 45° Angle Fitting (page J.12)



**19** FRFWC12X4W6L\*\* – 12x4 4-Way Cross Fitting with 6x4 Exits and FRFWCSC12W6L\*\* – Split Cover (page J.12)



**10** FROV4512X4L\*\* – 12x4 Outside Vertical 45° Angle Fitting and FROV45SC12L\*\* – Split Cover (page J.11-12)



**11** FROVRA12X4L\*\* – 12x4 Outside Vertical Right Angle Fitting and FROVRASC12L\*\* – Split Cover (page J.12)

\*\*Available colors: YL (Yellow) and BL (Black).

### 12x4 FiberRunner® Routing System – Channel and Cover

- Robust, large capacity 12x4 system ideal for use with large cable counts
- Multiple spillout options provide versatility to mate to various equipment and rack configurations
- QuikLock™ Couplers and Brackets reduce system installation time dramatically
- Channel, covers, fittings and other non-metallic system components made from V-0 flame class rated material
- Compatible with all sizes of Panduit® FiberRunner® Routing Systems, Cable Management, and Racks
- Compliant with the applicable tests in Telcordia GR-63-CORE Network Equipment Building Systems (NEBS) Level 3



Part Number	Description	Color
<b>12x4 FiberRunner® Channel</b>		
<b>FR12X4YL10</b>	Used to carry the cables horizontally throughout the system. Accepts cable retainers FRCR12LYL-X or hinged cover FRHC12YL10. Use QuikLock™ Coupler FRBC12X4LYL to attach channel and/or fittings.	Yellow
<b>12x4 Snap-On Hinged Cover</b>		
<b>FRHC12YL10</b>	Snap-on hinged cover for channel FR12X4YL10.	Yellow

For other colors replace YL (Yellow) with BL (Black).

### 12x4 FiberRunner® QuikLock™ Coupler

- Pre-assembled to provide fast mechanical assembly of components
- No tools required for installation; bolts loosen for component disassembly



Part Number	Description	Color
<b>FRBC12X4LYL</b>	Coupler quickly joins two sections of channel and/or fittings.	Yellow

For other colors replace YL (Yellow) with BL (Black).

### 12x4 FiberRunner® System Fittings

- Minimum 2 inch (50.8mm) bend radius control fittings
- Split covers snap onto each fitting
- Protect against signal loss and performance degradation
- Covers feature 0.75 inch (19mm) gap to allow cable to be laid in
- Assemble using FRBC QuikLock™ Couplers



Part Number	Description	Couplers Required	Color
<b>12x4 Four-Way Cross Fitting</b>			
<b>FRFWC12X4LYL</b>	Attaches to a 12x4 channel and/or fitting to create a horizontal four-way cross intersection with two 12x4 exits.	—	Yellow



<b>FRFWCSC12LYL</b>	Split cover for the four-way cross fitting FRFWC12X4LYL.	—	Yellow
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<b>FRH4512X4LYL</b>	Attaches to a 12x4 channel and/or fittings to create a horizontal four-way cross intersection with two 4x4 exits.	(2 pcs.) FRBC12X4LYL (2 pcs.) FRBC4X4LYL	Yellow
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For other colors replace YL (Yellow) with BL (Black).



## 12x4 FiberRunner® System Fittings (continued)



FRFWC12X4W6LYL



FRT12X4LYL



FRTSC12LYL



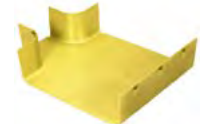
FRH4512X4LYL



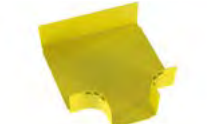
FRH45SC12LYL



FRR12X4LYL



FRRASC12LYL



FRT12X4W4LYL



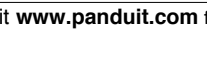
FRT12X4W6LYL



FRTSC12W6LYL



FREC12X4LYL



FROV4512X4LYL

Part Number	Description	Couplers Required	Color
<b>12x4 Four-Way Cross Fitting with 6x4 Exits</b>			
FRFWC12X4W6LYL	Attaches to a 12x4 channel and/or fittings to create a horizontal four-way cross intersection with two 6x4 exits. Accepts split cover FRFWCSC12W6LYL.	(2 pcs.) FRBC12X4LYL (2 pcs.) FRBC6X4LYL	Yellow
<b>12x4 Horizontal Tee Fitting</b>			
FRT12X4LYL	Attaches to a 12x4 channel and/or fittings to create a 90° horizontal branch with a 12x4 exit from straight horizontal run. Accepts split cover FRTSC12LYL.	(3 pcs.) FRBC12X4LYL	Yellow
<b>Split Cover for 12x4 Horizontal Tee Fitting</b>			
FRTSC12LYL	Split cover for the horizontal tee fitting FRT12X4LYL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 0.75" (19mm) opening for easy access to add or remove cables.	—	Yellow
<b>12x4 Horizontal 45° Angle Fitting</b>			
FRH4512X4LYL	Attaches to a 12x4 channel and/or fitting to create a 45° horizontal turn from a straight horizontal run. Accepts split cover FRH45SC12LYL.	—	Yellow
<b>Split Cover for 12x4 Horizontal 45° Angle Fitting</b>			
FRH45SC12LYL	Split cover for the horizontal 45° angle fitting FRH4512X4LYL.	—	Yellow
<b>12x4 Horizontal Right Angle Fitting</b>			
FRR12X4LYL	Attaches to a 12x4 channel and/or fitting to create a 90° horizontal turn from a straight horizontal run. Accepts split cover FRRASC12LYL.	(2 pcs.) FRBC12X4LYL	Yellow
<b>Split Cover for 12x4 Horizontal Right Angle Fitting</b>			
FRRASC12LYL	Split cover for the horizontal right angle fitting FRR12X4LYL.	—	Yellow
<b>12x4 Horizontal Tee with 4x4 Exits</b>			
FRT12X4W4LYL	Attaches to a 12x4 channel and/or fittings to create a 90° horizontal branch with a 4x4 exit from straight horizontal run. Accepts split cover FRTSC12W4LYL.	(2 pcs.) FRBC12X4LYL (1 pc.) FRBC4X4LYL	Yellow
<b>12x4 Horizontal Tee with 6x4 Exits</b>			
FRT12X4W6LYL	Attaches to a 12x4 channel and/or fittings to create a 90° horizontal branch with a 6x4 exit from straight horizontal run. Accepts split cover FRTSC12W6LYL.	(2 pcs.) FRBC12X4LYL (1 pc.) FRBC6X4LYL	Yellow
<b>Split Cover for 12x4 Horizontal Tee with 6x4 Exit</b>			
FRTSC12W6LYL	Split cover for the horizontal tee with 6x4 exit fitting FRT12X4W6LYL. Snap-on feature allows cover to be installed and removed without tools. Creates radiused 0.75" (19mm) opening for easy access to add or remove cables.	—	Yellow
<b>12x4 End Cap Fitting</b>			
FREC12X4LYL	Used for closing off open ends of the channel or fittings.	—	Yellow
<b>12x4 Outside Vertical 45° Angle Fitting</b>			
FROV4512X4LYL	Attaches to a 12x4 channel and/or fitting to create a 45° downward angle from a straight horizontal run. Used with inside vertical 45° angle fitting FRIV4512X4LYL to change level of a horizontal run. Accepts split cover FROV45SC12LYL.	(2 pcs.) FRBC12X4LYL	Yellow

For other colors replace YL (Yellow) with BL (Black).

A.  
Product Showcase

B.  
Copper Systems

C.  
Fiber Systems

D.  
Industrial Networks

E.  
Audio Video Systems

F.  
Keystone Cabling Systems

G.  
Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

H.  
Power Management

I.  
Cable Management Accessories

J.  
Cable Routing Systems

K.  
Surface Raceway

L.  
Part Number Index

### 12x4 FiberRunner® System Fittings (continued)

A. Product Showcase



FROV45SC12LYL



FROVRA12X4LYL



FROVRASC12LYL



FRIV4512X4LYL

B. Copper Systems

C. Fiber Systems

D. Industrial Networks

E. Audio Video Systems

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G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

H. Power Management

I. Cable Management Accessories

J. Cable Routing Systems

K. Surface Raceway

L. Part Number Index

Part Number	Description	Couplers Required	Color
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#### Split Cover for 12x4 Outside Vertical 45° Angle Fitting

FROV45SC12LYL	Split cover for the outside vertical 45° angle fitting FROV4512X4LYL.	—	Yellow
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#### 12x4 Outside Vertical Right Angle Fitting

FROVRA12X4LYL	Attaches to a 12x4 channel and/or fitting to create a 90° vertical turn down from a straight horizontal run. Accepts split cover FROVRASC12LYL.	(2 pcs.) FRBC12X4LYL	Yellow
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#### Split Cover for 12x4 Outside Vertical Right Angle Fitting

FROVRASC12LYL	Split cover for the outside vertical 90° angle fitting FROVRA12X4LYL.	—	Yellow
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#### 12x4 Inside Vertical 45° Fitting and Cover

FRIV4512X4LYL	Attaches to a 12x4 channel and/or fittings to create a 45° upward angle from a straight horizontal run. Used with outside vertical 45° angle fitting FROV4512X4LYL to change level of a straight horizontal run. Includes cover.	(2 pcs.) FRBC12X4LYL	Yellow
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For other colors replace YL (Yellow) with BL (Black).

### 12x4 FiberRunner® System Spillouts

- Spill-overs allow safe transition from horizontal to vertical runs
- 2 inch (50.8mm) bend radius control
- Transition to channel, slotted channel, and corrugated loom tubing



FRVT12X4LYL



FRTR12X4LYL



FRSPJC412LYL



FITF12X4



FRY126LYL



FRY126SCLYL

Part Number	Description	Couplers Required	Color
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#### 12x4 Vertical Tee

FRVT12X4LYL	Attaches to a 12x4 channel and/or fittings to create a 90° vertical drop from a horizontal run. Hinged door included. Accepts snap-on cover FRHC12LYL6 in conjunction with channel.	(2 pcs.) FRBC12X4LYL (1 pc.) FRBC6X4LYL	Yellow
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#### 3-Sided BRC Trumpet Spillout for 6x4 Exit

FRTR12X4LYL	Used to limit the bend radius of the cable to 3" (76.2mm) when exiting from the 12x4 channel or a 12x4 horizontal tee.	(1 pc.) FRBC12X4LYL	Yellow
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#### Cover for Spill-Over Junction with 4x4 Exit for 12x4 Channel

FRSPJC412LYL	Used to fully enclose 12x4 channel in conjunction with the spill-over junction FRSPJ4X4LYL.	—	Yellow
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#### Innerduct Transition Fitting

FITF12X4	Attaches to the end of a channel or fitting to transition up to ten pieces of solid 1.5" (38mm) inside diameter innerduct.	—	Black
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#### 12x4 Y-Reducer Fitting for 6x4 Exit

FRY126LYL	Attaches any 12x4 FiberRunner® Fitting or Channel to two 6x4 FiberRunner® Channels.	(1 pc.) FRBC12X4LYL (2 pcs.) FRBC6X4LYL	Yellow
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#### Reducer Cover for the 12x4 Y-Reducer Fitting

FRY126SCLYL	Reducer cover for the Y-reducer fitting FRY126LYL.	—	Yellow
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For other colors replace YL (Yellow) with BL (Black).

## 12x4 FiberRunner® System Spillouts (continued)



FRRF126SCLYL

Part Number	Description	Couplers Required	Color
FRRF126SCLYL	Split cover for reducer fitting FRRF126LYL.	—	Yellow

### Split Cover for Reducer 12x4 Fitting to 6x4 Exit



FRRF126LSCLYL

FRRF126LSYL	Attaches any 12x4 FiberRunner® Fitting or Channel to any 6x4 FiberRunner® Fitting or Channel. It accepts split cover FRRF126LSCLYL.	(1 pc.) FRBC12X6LYL (1 pc.) FRBC6X4LYL	Yellow
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### Transition Left Reducer 12x4 Fitting to 6x4 Exit



FRRF126LSCLYL	Split cover for the reducer fitting FRRF126LYL.	—	Yellow
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### Split Cover for Transition Left Reducer 12x4 Fitting to 6x4 Exit



FRRF126RLYL

FRRF126RLYL	Attaches any 12x4 FiberRunner® Fitting or Channel to any 6x4 FiberRunner® Fitting or Channel. It accepts split cover FRRF126RSCLYL.	(1 pc.) FRBC12X4LYL (1 pc.) FRBC6x4LYL	Yellow
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### Transition Right Reducer 12x4 Fitting to 6x4 Exit



FRRF126RSCLYL

FRRF126RSCLYL	Split cover for the reducer fitting FRRF126RLYL.	—	Yellow
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### Split Cover for Transition Right Reducer 12x4 Fitting to 6x4 Exit



FRCR12LBL-X

FRCR12LBL-X	Holds cable in the channel when the cover is not used.	—	Black
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### 12x4 Cable Retainer

For other colors replace YL (Yellow) with BL (Black).

## 12x4 FiberRunner® Mounting Brackets



FR12ACAB

Part Number	Description	For Threaded Rod Size
FR12ACB12	Used to support the 12x4 system from any new threaded rod extending down directly from the ceiling, grid, or ladder rack system. Two position height adjustments to accommodate system with or without hinged cover. Bracket is secured to threaded rod with two nuts. The pre-assembled slide clamps enable fast assembly to channel.	0.5"
FR12ACAB		0.625"
FR12ACB58		12mm
FR12ACB12M		

### Top Support Adjustable "C" QuikLock™ Bracket



FR12ALB

FR12ALB	Used to support the 12x4 system by attaching to any 0.375" (9.5mm) x 1.5" (38.1mm) or 0.375" (9.5mm) x 2" (50.8mm) ladder rack rail. Adjustable to nine incremental positions from 4" (101mm) to 12" (305mm) above or below the ladder rack.	—
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### Adjustable Ladder Rack Bracket



FR12TRBN58

FR12TRBE58	Used to support the 12x4 system from existing threaded rod installations.	0.625"
FR12TRBE58M		16mm

### Existing Threaded Rod QuikLock™ Bracket



FR12CS58

FR12TRBN58	Used to support the 12x4 systems from any new threaded rod installations.	0.625"
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### New Threaded Rod QuikLock™ Bracket



FR12TB58

FR12CS12	Used to support the 12x4 systems from below with new threaded rod.	0.5"
FR12CS58		0.625"
FR12CS12M		12mm

### Center Support QuikLock™ Bracket

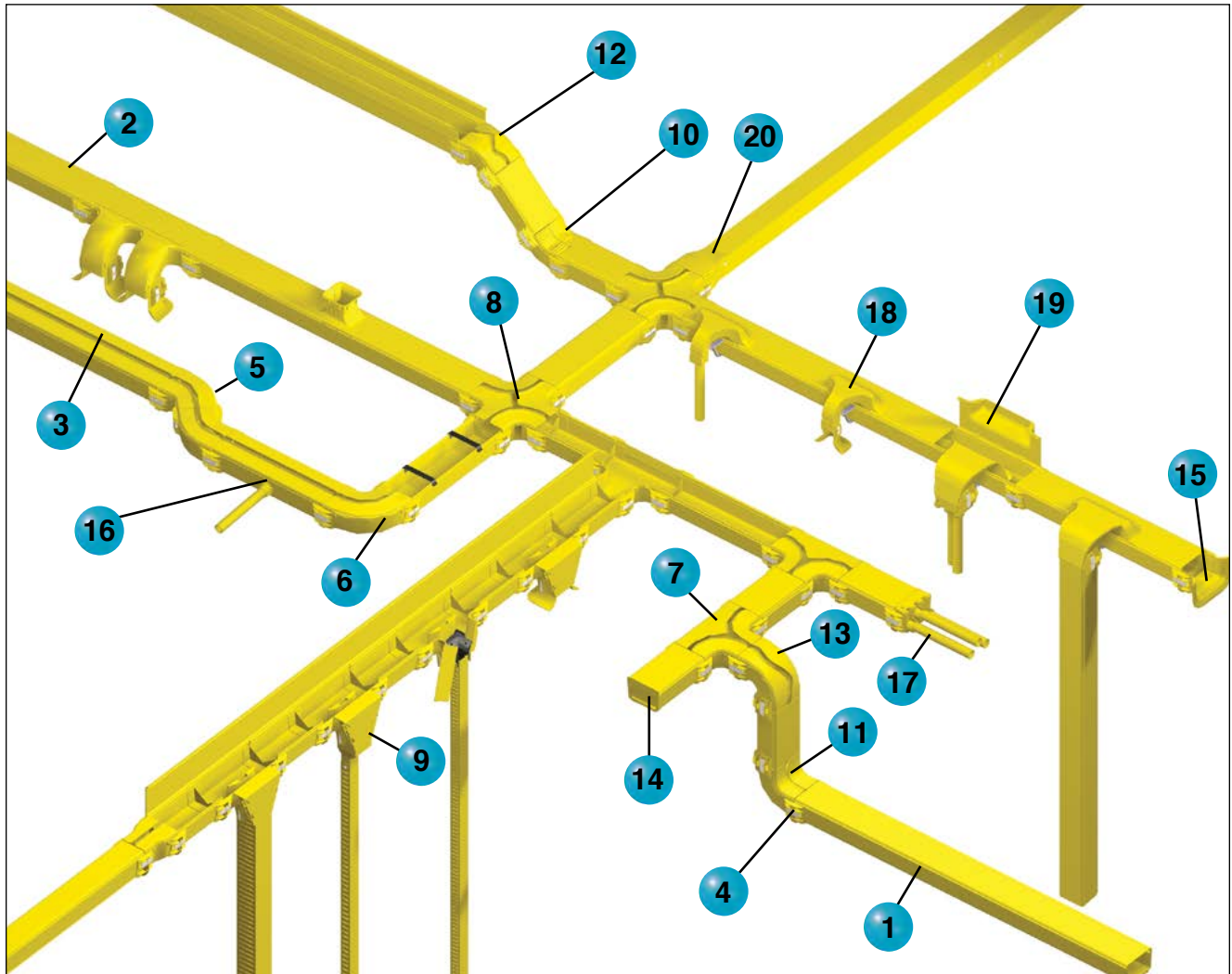


FR12TB12	Used to support the 12x4 system by spanning two threaded rod drops that are 18" apart. Can be installed from above or below. Bracket is secured to each threaded rod with two nuts. The pre-assembled slide clamps enable fast assembly to channel.	0.5"
FR12TB58		0.625"
FR12TB12M		12mm

### Trapeze QuikLock™ Bracket

A. Product Showcase

### 6x4 Routing System Roadmap



B. Copper Systems

C. Fiber Systems

D. Industrial Networks

E. Audio Video Systems

F. Keystone Cabling Systems

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

H. Power Management

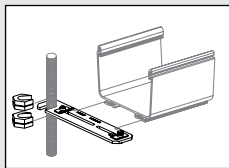
I. Cable Management Accessories

J. Cable Routing Systems

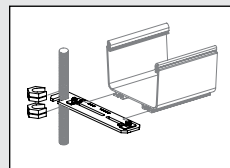
K. Surface Raceway

L. Part Number Index

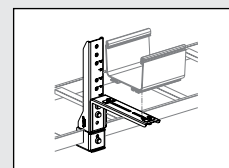
### 4x4 and 6x4 FiberRunner® Mounting Brackets



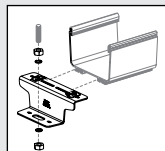
**FR6TRBE58 – Existing Threaded Rod QuikLock™ Bracket (page J.25)**



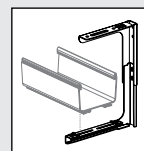
**FR6TRBN58 – New Threaded Rod QuikLock™ Bracket (page J.25)**



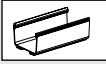

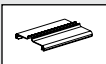




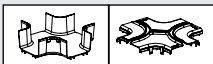



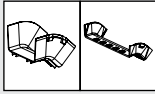
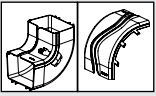


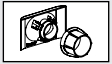

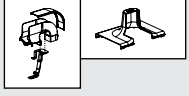
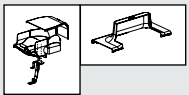
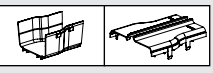
**FR6ALB – Adjustable Ladder QuikLock™ Bracket (page J.25)**



**FR6CS58 – Center Support QuikLock™ Bracket (page J.25)**



**FR6ACB58 – Top Support Adjustable “C” QuikLock™ Bracket (page J.25)**

- |  |  |   |  |  |   |   |  |   |   |   |   |  |  |  |   |   |   |   |   |
|--|--|---|--|--|---|---|--|---|---|---|---|--|--|--|---|---|---|---|---|
|  <p><b>1</b> FR6X4**10 – 6x4 FiberRunner® Channel (page J.16)</p> |  <p><b>2</b> FRHC6**10 – 6x4 Snap-On Hinged Cover (page J.16)</p> |  <p><b>3</b> FRSHC6**10 – 6x4 Split Hinged Cover (page J.16)</p> |  <p><b>4</b> FRBC6X4L** – 6x4 QuikLock™ Coupler (page J.16)</p> |  <p><b>5</b> FRH456X4L** – 6x4 Horizontal 45° Angle Fitting and FRH45SC6L** – Split Cover (page J.17)</p> |  <p><b>6</b> FRR6X4L** – 6x4 Horizontal Right Angle Fitting and FRRASC6L** – Split Cover (page J.17)</p> |  <p><b>7</b> FRT6X4L** – 6x4 Horizontal Tee Fitting and FRTSC6L** – Split Cover (page J.17)</p> |  <p><b>8</b> FRFWC6X4L** – 6x4 4-Way Cross Fitting and FRFWCSC6L** – Split Cover (page J.16-17)</p> |  <p><b>9</b> FRVT6X4L** – 6x4 QuikLock™ Vertical Tee (page J.18)</p> |  <p><b>10</b> FRIV456X4L** – 6x4 Inside Vertical 45° Angle Fitting (page J.18)</p> |  <p><b>11</b> FRIVRA6X4L** – 6x4 Inside Vertical 90° Angle Fitting (page J.18)</p> |  <p><b>12</b> FROV456X4L** – 6x4 Outside Vertical 45° Angle Fitting and FROV45SC6L** – Split Cover (page J.17)</p> |  <p><b>13</b> FROVRA6X4L** – 6x4 Outside Vertical Right Angle Fitting and FROVRASC6L** – Split Cover (page J.17)</p> |  <p><b>14</b> FREC6X4L** – 6x4 End Cap Fitting (page J.17)</p> |  <p><b>15</b> FRTR6X4L** – 3-Sided BRC Trumpet Spillout for 6x4 Exit (page J.18)</p> |  <p><b>16</b> FR1.5IDEL** – 1-Port Spillout Side Exit to 1.5" (38mm) Inside Diameter Corrugated Tubing (page J.30)</p> |  <p><b>17</b> FRIDT6X4L** – 3-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing (page J.18)</p> |  <p><b>18</b> FRSPJ2X2L** – Spill-Over Junction with 2x2 Exit (J.30) and FRSPJC26L** – Cover for 6x4 System (page J.19)</p> |  <p><b>19</b> FRSPJ4X4L** – Spill-Over Junction with 4x4 Exit (page J.24) and FRSPJC46L** – Cover for 6x4 System (page J.19)</p> |  <p><b>20</b> FRRF6FR4L** – 6x4 to 4x4 FiberRunner® Reducer Fitting and FRRF6FR4SCL** – Split Cover (page J.18)</p> |
|--|--|---|--|--|---|---|--|---|---|---|---|--|--|--|---|---|---|---|---|

\*\*Available Colors: YL (Yellow), and BL (Black).

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A. Product Showcase

### 6x4 FiberRunner® Routing System – Channel and Covers

- Robust, large capacity 6x4 system ideal for use with large cable counts
- Multiple spillout options provide versatility to mate to various equipment and rack configurations
- QuikLock™ Couplers and Brackets reduce system installation time dramatically
- Channel, covers, fittings and other non-metallic system components made from V-0 flame class rated material
- Compatible with all sizes of Panduit® FiberRunner® Routing Systems, Cable Management, and Racks
- Compliant with the applicable tests in Telcordia GR-63-CORE Network Equipment Building Systems (NEBS) Level 3

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FR6X4YL10



FRHC6YL10



FRSHC6YL10

E. Audio Video Systems

F. Keystone Cabling Systems

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

H. Power Management



FRBC6X4LYL

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FRFWC6X4LYL

L. Part Number Index

Part Number	Description	Color
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#### 6x4 Channels

<b>FR6X4YL10</b>	Used to carry the cables horizontally throughout the system. Accepts hinged cable retainers FRCR6BL-X, hinged cover FRHC6YL10 or split hinged cover FRSHC6YL10. Use QuikLock™ Coupler FRBC6X4LYL to attach channel and/or fittings.	Yellow
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#### 6x4 Snap-On Hinged Cover

<b>FRHC6YL10</b>	Hinge feature enables positioning of cover at angles between 30° and 90°.	Yellow
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#### 6x4 Split Hinged Cover

<b>FRSHC6YL10</b>	Split hinged cover for the channel FR6X4YL10. Creates radiused 0.75" (19mm) opening for easy access to add or remove cables. Snap-on hinge feature enables positioning of cover at angles between 30° and 90°.	Yellow
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For other colors replace YL (Yellow) with BL (Black).

### 6x4 FiberRunner® QuikLock™ Coupler

- Pre-assembled to provide fast mechanical assembly of components
- No tools required for installation; bolts loosen for component disassembly

Part Number	Description	Color
<b>FRBC6X4LYL</b>	Coupler quickly joins two sections of channel and/or fittings.	Yellow

For other colors replace YL (Yellow) with BL (Black).

### 6x4 FiberRunner® System Fittings

- Minimum 2 inches (50.8mm) bend radius control fittings
- Split covers snap onto each fitting
- Protect against signal loss and performance degradation
- Assemble using FRBC QuikLock™ Couplers

Part Number	Description	Couplers Required	Color
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#### 6x4 Four-Way Cross Fitting

<b>FRFWC6X4LYL</b>	Attaches to a 6x4 channel and/or fittings to create a horizontal four-way cross intersection. Accepts split cover FRFWCSC6LYL.	(4 pcs.) FRBC6X4LYL	Yellow
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For other colors replace YL (Yellow) with BL (Black).

## 6x4 FiberRunner® System Fittings (continued)



FRFWCSC6LYL



FRT6X4LYL



FRTSC6LYL



FRH456X4LYL



FRH45SC6LYL



FRRA6X4LYL



FRRASC6LYL



FREC6X4LYL



FROV456X4LYL



FROV45SC6LYL



FROVRASC6LYL

Part Number	Description	Couplers Required	Color
<b>Split Cover for 6x4 Four-Way Cross Fitting</b>			
FRFWCSC6LYL	Split cover for the four-way cross fitting FRFWC6X4LYL.	—	Yellow
<b>6x4 Horizontal Tee Fitting</b>			
FRT6X4LYL	Attaches to a 6x4 channel and/or fittings to create a 90° horizontal branch from a straight horizontal run. Accepts split cover FRTSC6LYL.	(3 pcs.) FRBC6X4LYL	Yellow
<b>Split Cover for 6x4 Horizontal Tee Fitting</b>			
FRTSC6LYL	Split cover for the horizontal tee fitting FRT6X4LYL	—	Yellow
<b>6x4 Horizontal 45° Angle Fitting</b>			
FRH456X4LYL	Attaches to a 6x4 channel and/or fittings to create a 45° horizontal turn from a straight horizontal run. Accepts split cover FRH45SC6LYL.	(2 pcs.) FRBC6X4LYL	Yellow
<b>Split Cover for 6x4 Horizontal 45° Angle Fitting</b>			
FRH45SC6LYL	Split cover for the horizontal 45° angle fitting FRH456X4LYL.	—	Yellow
<b>6x4 Horizontal Right Angle Fitting</b>			
FRRA6X4LYL	Attaches to a 6x4 channel and/or fittings to create a 90° horizontal turn from a straight horizontal run. Accepts split cover FRRASC6LYL.	(2 pcs.) FRBC6X4LYL	Yellow
<b>Split Cover for 6x4 Horizontal Right Angle Fitting</b>			
FRRASC6LYL	Split cover for the horizontal right angle fitting FRRA6X4LYL.	—	Yellow
<b>6x4 End Cap Fitting</b>			
FREC6X4LYL	Used for closing off open ends of the channel or fittings.	—	Yellow
<b>6x4 Outside Vertical 45° Angle Fitting</b>			
FROV456X4LYL	Attaches to a 6x4 channel and/or fittings to create a 45° upward angle from a straight horizontal run. Used with outside vertical 45° angle fitting FROV456X4LYL to change level of a straight horizontal run. Includes split cover.	(2 pcs.) FRBC6X4LYL	Yellow
<b>Split Cover for 6x4 Outside Vertical 45° Angle Fitting</b>			
FROV45SC6LYL	Split cover for the outside vertical 45° angle fitting FROV456X4LYL.	—	Yellow
<b>6x4 Outside Vertical Right Angle Fitting</b>			
FROVRA6X4LYL	Attaches to a 6x4 channel and/or fittings to create a 90° vertical turn down from a straight horizontal run. Accepts split cover FROVRASC6LYL.	(2 pcs.) FRBC6X4LYL	Yellow
<b>Split Cover for 6x4 Outside Vertical Right Angle Fitting</b>			
FROVRASC6LYL	Split cover for the outside vertical right angle fitting FROVRA6X4LYL.	—	Yellow

For other colors replace YL (Yellow) with BL (Black).

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### 6x4 FiberRunner® System Fittings (continued)

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FRIV456X4LYL

C. Fiber Systems



FRIVRA6X4LYL

D. Industrial Networks



FRRF6FR4LYL

E. Audio Video Systems



FRRF6FR4SCLYL

F. Keystone Cabling Systems

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

- Spill-overs allow safe transition from horizontal to vertical runs
- 2 inch (50.8mm) bend radius control
- Transition to channel, slotted channel, and corrugated loom tubing

H. Power Management



FRVT6X4YL

I. Cable Management Accessories



FRTR6X4LYL

J. Cable Routing Systems



FRIDT6X4LYL

K. Surface Raceway



FRIDT6X4LYL

L. Part Number Index

Part Number	Description	Couplers Required	Color
<b>6x4 Inside Vertical 45° Angle Fitting</b>			
FRIV456X4LYL	Attaches to a 6x4 channel and/or fittings to create a 45° upward angle from a straight horizontal run. Used with outside vertical 45° angle fitting FROV456X4LYL to change level of a straight horizontal run. Includes split cover.	(2 pcs.) FRBC6X4LYL	Yellow
<b>6x4 Inside Vertical Right Angle Fitting</b>			
FRIVRA6X4LYL	Attaches to a 6x4 channel and/or fittings to create a 90° upward angle from a straight horizontal run. Used with outside vertical 90° angle fitting FROVRA6X4LYL to change level of a straight horizontal run. Includes split cover.	(2 pcs.) FRBC6X4LYL	Yellow
<b>6x4 to 4x4 Reducer Fitting</b>			
FRRF6FR4LYL	Attaches any 6x4 FiberRunner® Fitting or Channel to any 4x4 FiberRunner® Fitting or Channel. Accepts split cover FRRF6FR4SCLYL.	(1 pc.) FRBC6X4LYL (1 pc.) FRBC4X4LYL	Yellow
<b>Split Cover for 6x4 to 4x4 Reducer Fitting</b>			
FRRF6FR4SCLYL	Split cover for the 6x4 FiberRunner® to 4x4 FiberRunner® Reducer Fitting FRRF6FR4LYL.	—	Yellow

For other colors replace YL (Yellow) with BL (Black).

### 6x4 FiberRunner® System Spillouts

Part Number	Description	Couplers Required	Color
<b>6x4 Vertical Tee</b>			
<b>BEST SELLER</b> FRVT6X4YL	Attaches to a 6x4 channel and/or fittings to create 90° vertical drop from a straight horizontal run. Hinged door included. Accepts snap-on cover FRHC6LYL6 in conjunction with channel.	(2 pcs.) FRBC6X4LYL	Yellow
<b>3-Sided BRC Trumpet Spillout for 6x4 Exit</b>			
FRTR6X4LYL	Used to limit the bend radius of the cable to 2" (50.8mm) when exiting from 6x4 channel, 6x4 horizontal tee fitting, or 6x4 exit on 12x4 vertical tee.	(1 pc.) FRBC6X4LYL	Yellow
<b>3-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing</b>			
FRIDT6X4LYL	Used to route cable into three separate pieces of 1.5" (38mm) diameter split corrugated tubing. Used with FRVT12X4LYL or any 6x4 fitting.	(1 pc.) FRBC6X4LYL	Yellow

For other colors replace YL (Yellow) with BL (Black).



## 6x4 FiberRunner® System Spillouts (continued)



FRDDS6X4LYL



FRDDSHC6LYL



FRSPJC26LYL



FRSPJC46LYL



FRCR6LBL-X

Part Number	Description	Couplers Required	Color
<b>Dual Downspout with Throat Covers</b>			
FRDDS6X4LYL	Attaches to a 6x4 channel and/or fitting to create two 90° 4x4 downward transitions from a horizontal run. The fitting maintains a 2" bend radius control throughout the transition to the vertical downspouts. It includes two snap-on throat covers for the dual downspouts.	-	Yellow
<b>6x4 Dual Downspout Cover</b>			
FRDDSHC6LYL	Used to fully enclose the 6x4 dual downspout fitting FRDDS6X4LYL.	-	Yellow
<b>6x4 Spill-Over Junction with 2x2 Exit</b>			
FRSPJC26LYL	Assembles onto 4x4, 6x4, 12x4, or 24x4 FiberRunner® Channel, spilling over the side into a 2x2 vertical exit. Requires coupler to attach 2x2 FiberRunner® and fittings to the vertical exit.	(1 pc.) FBC2X2LYL	Yellow
<b>Cover for Spill-Over Junction with 4x4 Exit for 6x4 Channel</b>			
FRSPJC46LYL	Used to fully enclose 6x4 channel in conjunction with the spill-over junction FRSPJ4X4LYL.	-	Yellow
For other colors replace YL (Yellow) with BL (Black).			
<b>6x4 Cable Retainer</b>			
FRCR6LBL-X	Holds cable in the channel when cover is not used.	-	Black

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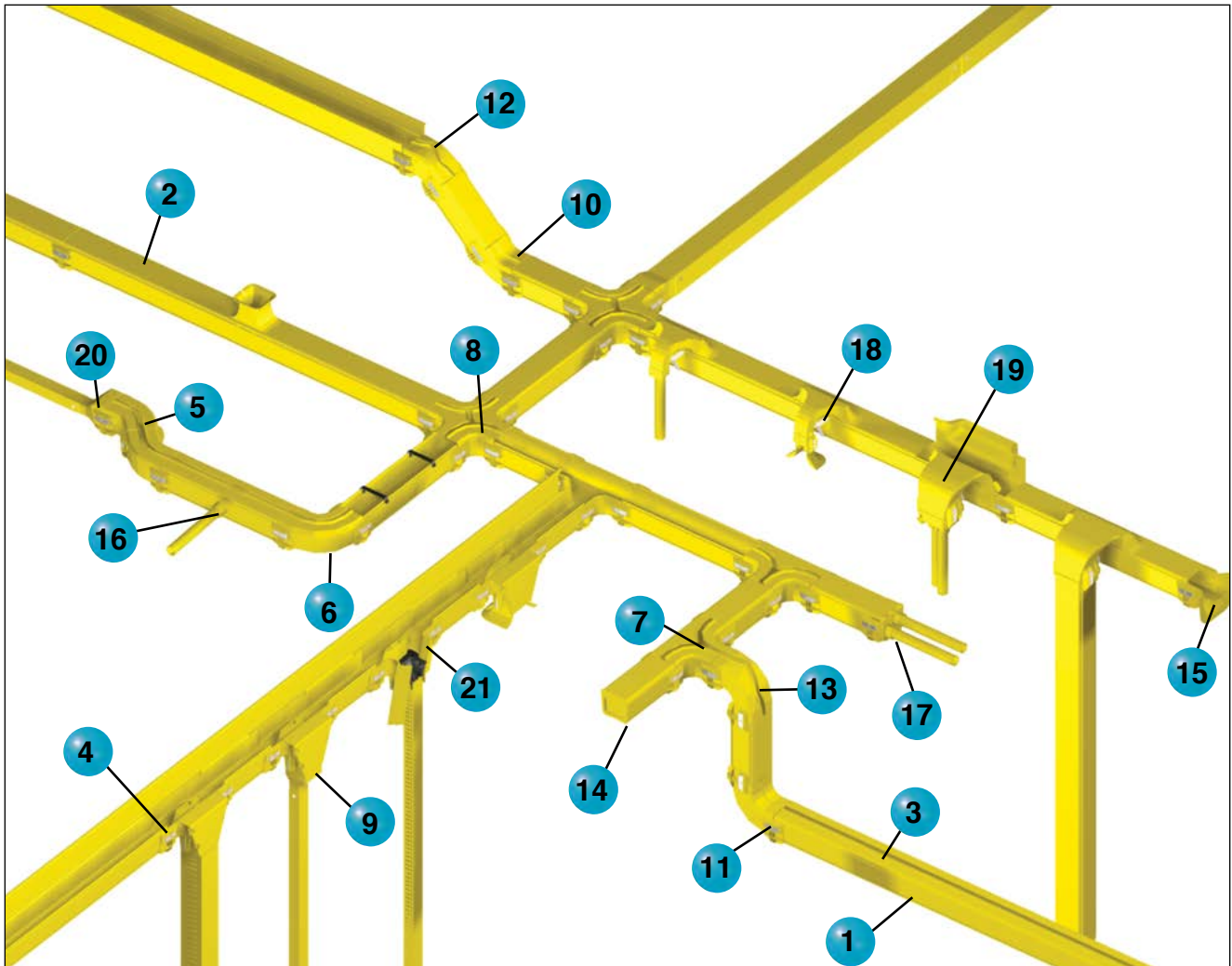
J.  
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### 4x4 Routing System Roadmap



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H. Power Management

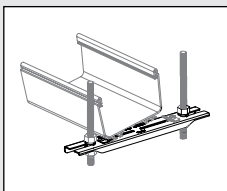
I. Cable Management Accessories

J. Cable Routing Systems

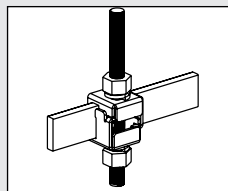
K. Surface Raceway

L. Part Number Index

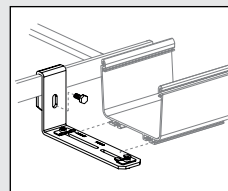
### 4x4 and 6x4 FiberRunner® Mounting Brackets



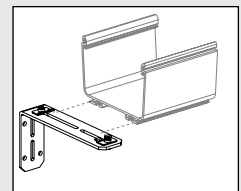
**FR6TB38 – Trapeze QuikLock™ Bracket**  
(page J.25)



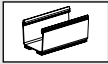
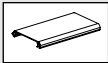
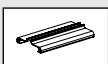

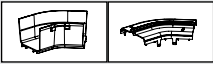

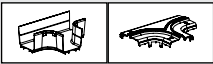







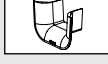
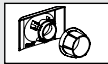
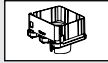
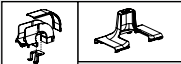

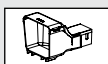

**F2PCLB – Two-Piece Ladder Rack Bracket for Attaching Threaded Rod to 1 1/2" – 2" Ladder Rack**  
(page J.25)



**FR6LRB – Ladder Rack QuikLock™ Bracket**  
(page J.25)



**FR6LB – "L" Wall Mount QuikLock™ Bracket**  
(page J.25)

- |   |  |
|---|--|
| <p> <b>1</b> FR4X4**10 – 4x4 FiberRunner® Channel (page J.22)</p> <p> <b>2</b> FRHC4**10 – 4x4 Snap-On Hinged Cover (page J.22)</p> <p> <b>3</b> FRSHC4**10 – 4x4 Split Hinged Cover (page J.22)</p> <p> <b>4</b> FRBC4X4L** – 4x4 QuikLock™ Coupler (page J.22)</p> <p> <b>5</b> FRH454X4L** – 4x4 Horizontal 45° Angle Fitting and FRH45SC4L** – Split Cover (page J.23)</p> <p> <b>6</b> FRRA4X4L** – 4x4 Horizontal Right Angle Fitting and FRRASC4L** – Split Cover (page J.23)</p> <p> <b>7</b> FRT4X4L** – 4x4 Horizontal Tee Fitting and FRTSC4L** – Split Cover (page J.22 - J.23)</p> <p> <b>8</b> FRFWC4X4L** – 4x4 4-Way Cross Fitting and FRFWCSC4L** – Split Cover (page J.22)</p> <p> <b>9</b> FRVT4X4L** – 4x4 QuikLock™ Vertical Tee (page J.24)</p> <p> <b>10</b> FRIV454X4L** – 4x4 Inside Vertical 45° Angle Fitting (page J.23)</p> <p> <b>11</b> FRIVRA4X4L** – 4x4 Inside Vertical Right Angle Angle Fitting (page J.23)</p> <p> <b>12</b> FROV454X4L** – 4x4 Outside Vertical 45° Angle Fitting and FROV45SC4L** – Split Cover (page J.23)</p> | <p> <b>13</b> FROVRA4X4L** – 4x4 Outside Vertical Right Angle Fitting and FROVRASC4L** – Split Cover (page J.23)</p> <p> <b>14</b> FREC4X4L** – 4x4 End Cap Fitting (page J.23)</p> <p> <b>15</b> FRTR4X4L** – 3-Sided BRC Trumpet Spillout for 4x4 FiberRunner® Exit (page J.24)</p> <p> <b>16</b> FR1.5IDEL** – 1-Port Spillout Side Exit to 1.5" (38mm) Inside Diameter Corrugated Tubing (page J.30)</p> <p> <b>17</b> FRIDT4X4L** – 2-Port Spillout to 1.5" (38mm) inside diameter Corrugated Tubing (page J.24)</p> <p> <b>18</b> FRSPJ2X2L** – Spill-Over Junction with 2x2 Exit and FRSPJC24L** – Cover for 4x4 System (page J.30)</p> <p> <b>19</b> FRSPJ4X4L** – Spill-Over Junction with 4x4 Exit and FRSPJC44L** – Cover for 4x4 System (page J.24)</p> <p> <b>20</b> FRRF4FD2L** – 4x4 FiberRunner® System to 2x2 Reducer Fitting with Cover (page J.23)</p> <p> <b>21</b> FRLPR42L** – Low Profile Reducer 4x4 to 2x2 for Vertical Tee (page J.30)</p> |
|---|--|

\*\*Available colors: YL (Yellow) and BL (Black).

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### 4x4 FiberRunner® Routing System – Channels and Covers

- Robust 4x4 system ideal for use with smaller cable counts
- Multiple spillout options provide versatility to mate to various equipment and rack configurations
- QuikLock™ Couplers and Brackets reduce system installation time dramatically
- Channel, covers, fittings and other non-metallic system components made from V-0 flame class rated material
- Compatible with all sizes of Panduit® FiberRunner® Routing Systems, Cable Management, and Racks
- Compliant with the applicable tests in Telcordia GR-63-CORE Network Equipment Building Systems (NEBS) Level 3

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Part Number	Description	Color
<b>4x4 Channels</b>		
<b>FR4X4YL10</b>	Used to carry the cables horizontally throughout the system. Accepts hinged cable retainers FRCR4LBL-X, hinged cover FRHC4YL10, or split hinged cover FRSHC4YL10. Use QuikLock™ Coupler FRBC4X4LYL to attach channel and/or fittings.	Yellow
<b>4x4 Snap-On Hinged Cover</b>		
<b>FRHC4YL10</b>	Snap-on hinged cover for channel FR4X4YL10. Hinge feature enables positioning of cover at angles between 30° to 90°.	Yellow
<b>4x4 Split Hinged Cover</b>		
<b>FRSHC4YL10</b>	Split hinged cover for the channel FR4X4YL10. Creates radiused 0.75" (19mm) opening for easy access to add or remove cables. Snap-on hinge feature enables positioning of cover at angles between 30° and 90°.	Yellow

For other colors, replace YL (Yellow) with BL (Black).

### 4x4 FiberRunner® Coupler

- Pre-assembled to provide fast mechanical assembly of components
- No tools required for installation; bolts loosen for component disassembly



Part Number	Description	Color
<b>FRBC4X4LYL</b>	Pre-assembled coupler quickly joins two sections of channel and/or fittings.	Yellow
<b>FRBC4X4LYL-E</b>		

For other colors, replace YL (Yellow) with BL (Black).  
-E indicates 20 couplers per package.

### 4x4 FiberRunner® System Fittings

- Minimum 2 inch (50.8mm) bend radius control fittings
- Protects against signal loss and performance degradation
- Assemble using FRBC QuikLock™ Couplers
- Split covers snap onto each fitting



Part Number	Description	Couplers Required	Color
<b>4x4 Four Way Cross Fitting</b>			
<b>FRFWC4X4LYL</b>	Attaches to a 4x4 channel and/or fittings to create a horizontal four way cross intersection. Accepts split cover FRFWCSC4LYL.	(4 pcs.) FRBC4X4LYL	Yellow
<b>Split Cover for 4x4 Four Way Cross Fitting</b>			
<b>FRFWCSC4LYL</b>	Split cover for the four way cross fitting FRFWC4X4LYL.	—	Yellow
<b>4x4 Horizontal Tee Fitting</b>			
<b>FRT4X4LYL</b>	Attaches to a 4x4 channel and/or fittings to create 90° horizontal branch from straight horizontal runs. Accepts split cover FRTSC4LYL.	(3 pcs.) FRBC4X4LYL	Yellow

For other colors, replace YL (Yellow) with BL (Black).

## 4x4 FiberRunner® System Fittings



FRTSC4LYL



FREC4X4LYL



FRH454X4LYL



FRH45SC4LYL



FRRA4X4LYL



FRRASC4LYL



FROV454X4LYL



FROV45SC4LYL



FROVRA4X4LYL



FROVRASC4LYL



FRIV454X4LYL



FRIVRA4X4LYL



FRRF4FD2LYL

Part Number	Part Description	Couplers Required	Color
<b>Split Cover for 4x4 Horizontal Tee Fitting</b>			
FRTSC4LYL	Split cover for the horizontal tee fitting FRT4X4LYL.	—	Yellow
<b>4x4 End Cap Fitting</b>			
FREC4X4LYL	Used for closing off open ends of the channel or fittings.	—	Yellow
<b>4x4 Horizontal 45° Angle Fitting</b>			
FRH454X4LYL	Attaches to a 4x4 channel and/or fittings to create a 45° horizontal turn from a straight horizontal run. Accepts split cover FRH45SC4LYL.	(2 pcs.) FRBC4X4LYL	Yellow
<b>Split Cover for 4x4 Horizontal 45° Angle Fitting</b>			
FRH45SC4LYL	Split cover for the horizontal 45° angle fitting FRH454X4LYL.	—	Yellow
<b>4x4 Horizontal Right Angle Fitting</b>			
FRRA4X4LYL	Attaches to a 4x4 channel and/or fitting to create a 90° horizontal turn from a straight horizontal run. Accepts split cover FRRASC4LYL.	(2 pcs.) FRBC4X4LYL	Yellow
<b>Split Cover for 4x4 Horizontal Right Angle Fitting</b>			
FRRASC4LYL	Split cover for the horizontal right angle fitting FRRA4X4LYL.	—	Yellow
<b>4x4 Outside Vertical 45° Angle Fitting</b>			
FROV454X4LYL	Attaches to a 4x4 channel and/or fittings to create a 45° downward angle from a horizontal run. Used with inside vertical 45° angle fitting FRIV454X4LYL to change level of a straight horizontal run. Accepts split cover FROV45SC4LYL.	(2 pcs.) FRBC4X4LYL	Yellow
<b>Split Cover for 4x4 Outside Vertical 45° Angle Fitting</b>			
FROV45SC4LYL	Split cover for the outside vertical 45° angle fitting FROV454X4LYL.	—	Yellow
<b>4x4 Outside Vertical Right Angle Fitting</b>			
FROVRA4X4LYL	Attaches to a 4x4 channel and/or fittings to create a 90° vertical turn down from a straight horizontal run. Accepts split cover FROVRASC4LYL.	(2 pcs.) FRBC4X4LYL	Yellow
<b>Split Cover for 4x4 Outside Vertical Right Angle Fitting</b>			
FROVRASC4LYL	Split cover for the outside vertical 90° angle fitting FROVRA4X4LYL.	—	Yellow
<b>4x4 Inside Vertical 45° Angle Fitting</b>			
FRIV454X4LYL	Attaches to a 4x4 channel and/or fittings to create a 45° upward angle from a horizontal run. Used with outside vertical 45° angle fitting FROV454X4LYL to change level of a straight horizontal run. Includes split cover.	(2 pcs.) FRBC4X4LYL	Yellow
<b>4x4 Inside Vertical Right Angle Fitting</b>			
FRIVRA4X4LYL	Attaches to a 4x4 channel and/or fittings to create a 90° upward angle from a straight horizontal run. Used with outside vertical 90° angle fitting FROVRA4X4LYL to change level of a straight horizontal run. Includes split cover.	(2 pcs.) FRBC4X4LYL	Yellow
<b>4x4 to 2x2 Reducer Fitting with Cover</b>			
FRRF4FD2LYL	Attaches any 4x4 FiberRunner® Fitting or Channel to any 2x2 FiberRunner® Channel.	(1 pc.) FRBC4X4LYL	Yellow

For other colors, replace YL (Yellow) with BL (Black).

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### 4x4 FiberRunner® System Spillouts

- Spill-overs allow safe transition from horizontal to vertical runs
- Transition to channel, slotted channel, and corrugated loom tubing
- 2 inch (50.8mm) bend radius control

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FRVT4X4LYL



FTR4X4LYL



FRTR4X4LYL



FRIDT4X4LYL



FRSPJ4X4LYL



FRSPJC44LYL



FRSPJC24LYL



FRCR4LBL-X

Part Number	Description	Couplers Required	Color
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#### 4x4 Vertical Tee Spillout

**BEST SELLER**

FRVT4X4LYL	Attaches to a 4x4 channel and/or fittings to create a 90° vertical drop from a horizontal run. Hinged door included. Accepts snap-on cover FRHC4LYL6 in conjunction with channel.	(2 pcs.) FRBC4X4LYL	Yellow
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#### 3-Sided Vertical Tee Trumpet Spillout

FTR4X4LYL	Used to limit the bend radius of the cable to 2" (50.8mm) when exiting from a 4x4 or 6x4 FiberRunner® Vertical Tee or 4x4 Fitting.	-	Yellow
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#### 3-Sided BRC Trumpet Spillout for 4x4 Exit

FRTR4X4LYL	Used to limit the bend radius of the cable to 2" (50.8mm) when exiting from 4x4 FiberRunner® Channel or Horizontal Tee.	(1 pc.) FRBC4X4LYL	Yellow
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#### 2-Port Spillout to 1.5 inch (38mm) Inside Diameter Corrugated Tubing

FRIDT4X4LYL	Used to route cable into one or two pieces of 1.5" (38mm) diameter split corrugated tubing. Requires a coupler to be used with 4x4 FiberRunner® Fitting.	(1 pc.) FRBC4X4LYL	Yellow
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#### 4x4 Spill-Over Junction Fitting with 4x4 Exit

FRSPJ4X4LYL	Assembles onto a 4x4, 6x4, 12x4, or 24x4 FiberRunner® Channel, spilling over the side into a 4x4 vertical exit. Requires a coupler to attach channels and fittings to the vertical exit.	(1 pc.) FRBC4X4LYL	Yellow
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#### Cover for Spill-Over Junction Fitting with 4x4 Exit

FRSPJC44LYL	Used to fully enclose 4x4 channel in conjunction with the spill-over junction FRSPJ4X4LYL.	-	Yellow
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#### Cover for Spill-Over Junction with 2x2 Exit for 4x4 Channel

FRSPJC24LYL	Used to fully enclose 4x4 channel in conjunction with the spill-over junction FRSPJ2X2LYL.	-	Yellow
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For other colors, replace YL (Yellow) with BL (Black).

#### 4x4 Cable Retainer

FRCR4LBL-X	Holds cable in the channel when cover is not used.	-	Black
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## 4x4 and 6x4 FiberRunner® Mounting Brackets



Part Number	Description	Couplers Required
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### Top Support Adjustable “C” QuikLock™ Bracket

FR6ACB12	Used to support the 6x4 and 4x4 systems from any new threaded rod extending down directly from the ceiling, grid, or ladder rack system. Two position height adjustments to accommodate system with or without hinged cover.	0.5"
FR6ACB12M		12mm
FR6ACB58		16 mm

### Adjustable Ladder Bracket

<b>BEST SELLER</b> FR6ALB	Used to support the 6x4 and 4x4 systems attaching to any 0.375" (9.5mm) x 1.5" (38.1mm) or 0.375" (9.5mm) x 2" (50.8mm) ladder rack rail. Adjustable to nine incremental positions from 4" (101mm) to 12" (305mm) above or below the ladder rack.	-
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### Existing Threaded Rod QuikLock™ Bracket

<b>BEST SELLER</b> FR6TRBE12	Used to support the 6x4 and 4x4 systems from existing threaded rod installations.	0.5"
FR6TRBE58		0.625"

### New Threaded Rod QuikLock™ Bracket

FR6TRBN12	Used to support the 6x4 and 4x4 systems from any new threaded rod installations.	0.5"
FR6TRBN58		0.625"

### Trapeze QuikLock™ Bracket

FR6TB12M	Used to support the 6x4 and 4x4 systems by spanning two threaded rod drops. Can be installed from above or below.	12mm
FR6TB38		10mm

### Center Support QuikLock™ Bracket

FR6CS12	Used to support the 6x4 and 4x4 systems from below with new threaded rod.	0.5"
FR6CS58		0.625"
FR6CS12M		12mm

### Ladder Rack QuikLock™ Bracket

FR6LB	Used to support the 6x4 and 4x4 systems attaching directly to any 0.375" (9.5mm) x 1.5" (38.1mm) or 0.375" (9.5mm) x 2" (50.8mm) ladder rack rail.	-
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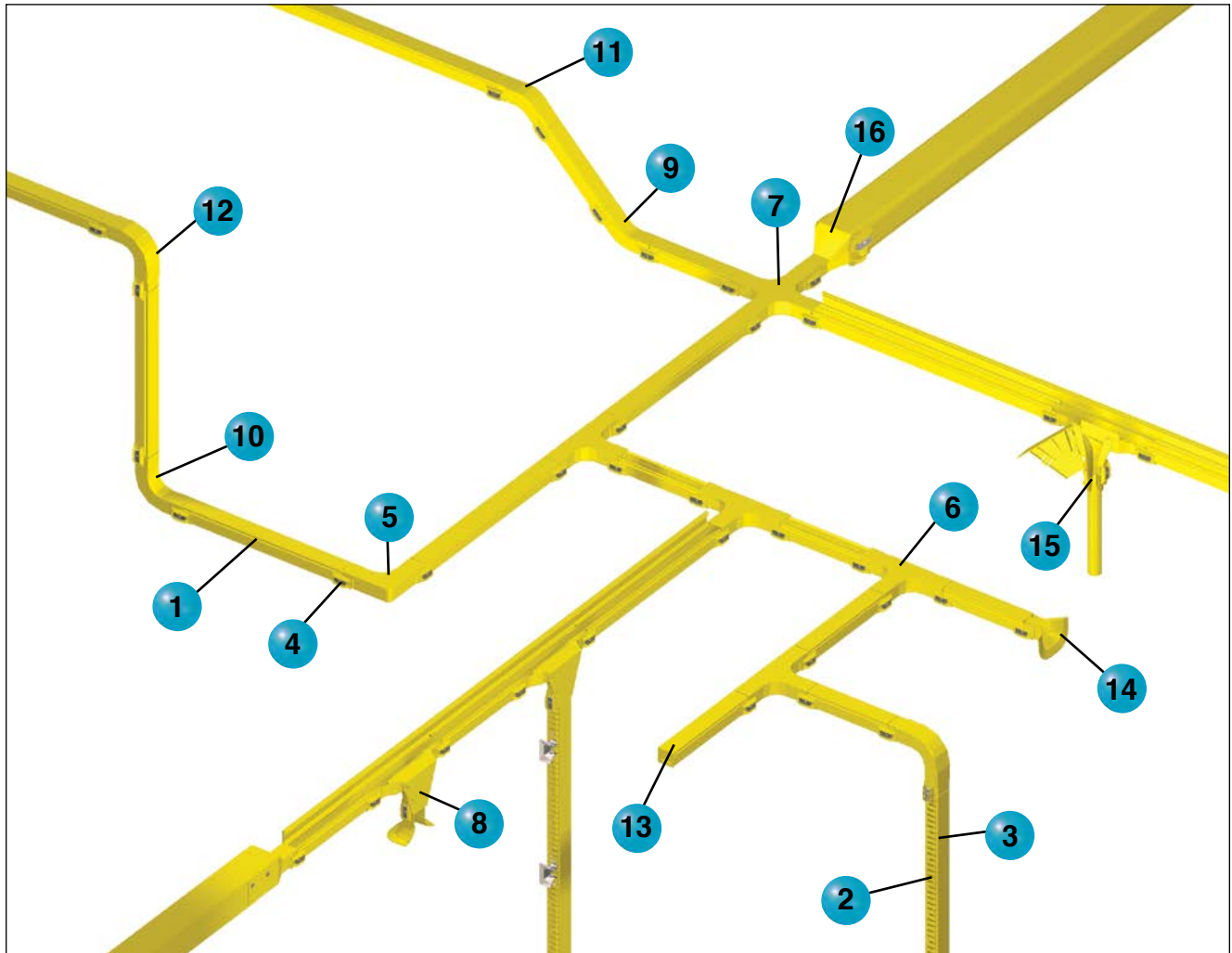
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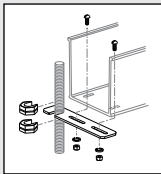
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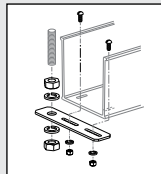
### 2x2 Routing System Roadmap



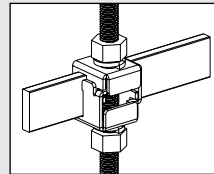
### FiberRunner™ Mounting Brackets



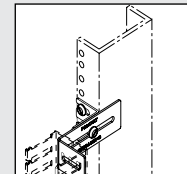
**FTRBE12 – Existing Threaded Rod Bracket (page J.31)**



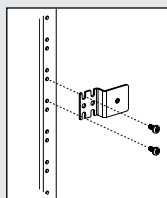
**FTRBN12 – New Threaded Rod Bracket (page J.31)**



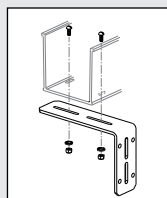
**F2PCLB12 – Two-Piece Ladder Rack Bracket for Attaching Threaded Rod to 1.5” – 2” Ladder Rack (page J.31)**



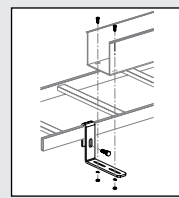
**FZBA1.5X4 – Adjustable “Z” Bracket (page J.31)**



**FZBLP – Low Profile “Z” Bracket (page J.31)**



**FLB – “L” Wall Mount Bracket (page J.31)**



**FLRB – Ladder Rack Bracket (page J.31)**

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\*\*Available colors: YL (Yellow) and BL (Black).

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### 2x2 FiberRunner® Routing System – Channel and Covers

- 2x2 system ideal for use with smaller cable counts
- Multiple spillout options provide versatility to mate to various equipment and rack configurations
- QuikLock™ Couplers reduce system installation time dramatically
- Channel, covers, fittings and other non-metallic system components made from V-0 flame class rated material
- Compatible with all sizes of Panduit® FiberRunner® Routing Systems, Cable Management, and Racks
- Compliant with the applicable tests in Telcordia GR-63-CORE Network Equipment Building Systems (NEBS) Level 3

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HS2X2YL10NM



H2X2YL10



HC2YL10

Part Number	Description	Color
<b>2x2 Hinged Channel</b>		
HS2X2YL10NM	Used to carry the cables throughout the system. Accepts hinged cover HC2YL10. Use QuikLock™ Coupler FBC2X2YL to attach channel and/or fittings.	Yellow
<b>2x2 Hinged Slotted Channel</b>		
H2X2YL10	Used to carry the cables vertically to the front or the back of equipment racks throughout the system. Accepts hinged cover HC2YL10. Extra supports required when used in horizontal applications. Use QuikLock™ Coupler FBC2X2YL to attach channel and/or fittings.	Yellow
<b>2x2 Hinged Snap-On Cover</b>		
HC2YL10	Snap-on cover for hinged channel HS2X2YL10 or H2X2YL10. Cover can hinge open to 90° from either side of the channel and be removed completely if desired.	Yellow

For other colors, replace YL (Yellow) with BL (Black).

### 2x2 FiberRunner® QuikLock™ Coupler

- Pre-assembled to provide fast mechanical assembly of components
- No tools required for installation; bolts loosen for component disassembly



Part Number	Description	Color
<b>BEST SELLER</b> FBC2X2LYL	Coupler quickly joins two sections of hinged channel and/or fittings.	Yellow

For other colors, replace YL (Yellow) with BL (Black).

### 2x2 FiberRunner® System Fittings



FFWC2X2LYL



FT2X2LYL

Part Number	Description	Couplers Required	Color
<b>2x2 Four Way Cross Fitting</b>			
FFWC2X2LYL	Attaches to a 2x2 channel and/or fittings to create a horizontal four way cross intersection. Accepts split cover FRFWCSC2LYL.	(4 pcs.) FBC2X2LYL	Yellow
<b>2x2 Horizontal Tee Fitting</b>			
FT2X2LYL	Attaches to 4x4 a channel and/or fittings to create 90° horizontal branch from straight horizontal runs. Accepts split cover FRTSC2LYL.	(3 pcs.) FRBC2X2LYL	Yellow

For other colors, replace YL (Yellow) with BL (Black).

## 2x2 FiberRunner® System Fittings



Part Number	Description	Couplers Required	Color
<b>2x2 End Cap Fitting</b>			
FHDEC2X2LYL	Used for closing off open ends of the channel or fittings.	-	Yellow
<b>2x2 Horizontal Right Angle Fitting</b>			
FRA2X2LYL	Attaches to a 2x2 channel and/or fitting to create a 90° horizontal turn from a straight horizontal run. Accepts split cover FRRASC2LYL.	(2 pcs.) FBC2X2LYL	Yellow
<b>2x2 Outside Vertical 45° Angle Fitting</b>			
FOV452X2LYL	Attaches to a 2x2 channel and/or fittings to create a 45° downward angle from a horizontal run. Used with inside vertical 45° angle fitting FRIV452X2LYL to change level of a straight horizontal run. Accepts split cover FROV45SC2LYL.	(2 pcs.) FBC2X2LYL	Yellow
<b>2x2 Outside Vertical Right Angle Fitting</b>			
FOVRA2X2LYL	Attaches to a 2x2 channel and/or fittings to create a 90° vertical turn down from a straight horizontal run. Accepts split cover FROVRASC2LYL.	(2 pcs.) FBC2X2LYL	Yellow
<b>2x2 Inside Vertical 45° Angle Fitting</b>			
FIV452X2LYL	Attaches to a 2x2 channel and/or fittings to create a 45° upward angle from a horizontal run. Used with outside vertical 45° angle fitting FROV452X2LYL to change level of a straight horizontal run. Includes split cover.	(2 pcs.) FBC2X2LYL	Yellow
<b>2x2 Inside Vertical Right Angle Fitting</b>			
FIVRA2X2LYL	Attaches to a 2x2 channel and/or fittings to create a 90° upward angle from a straight horizontal run. Used with outside vertical 90° angle fitting FROVRA2X2LYL to change level of a straight horizontal run. Includes split cover.	(2 pcs.) FBC2X2LYL	Yellow

For other colors, replace YL (Yellow) with BL (Black).

## 2x2 FiberRunner® System Spillouts

- Spill-overs allow safe transition from horizontal to vertical runs
- 2 inch bend radius control
- Transition to channel, slotted channel, and corrugated loom tubing



Part Number	Description	Couplers Required	Color
<b>2x2 Vertical Tee Spillout</b>			
<b>BEST SELLER</b> FVTHD2X2LYL	Attaches to a 2x2 channel to create a 90° vertical drop from a horizontal run. Hinged door included. Accepts channel cover in conjunction with the channel.	(2 pcs.) FBC2X2LYL	Yellow
<b>3-Sided BRC Trumpet Spillout for 2x2 Exit</b>			
FTR2X2LYL	Used to limit the bend radius of the cable to 2 inches (50.8mm) when exiting from a FiberRunner® Spill-Over FRSPLYL.	(1 pc.) FBC2X2LYL	Yellow

For other colors, replace YL (Yellow) with BL (Black).

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Part Number	Part Description	Couplers Required	Color
<b>1-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing</b>			
FIDT2X2LYL	Used to route cable into three separate 1.5" (3.8mm) diameter split corrugated tubing.	(1 pc.) FBC2X2LYL	Yellow
<b>Spill-Over Junction Fitting with 2x2 Exit</b>			
FRSPJ2X2LYL	Assembles onto a 2x2, 4x4, 6x4, 12x4, or 24x4 FiberRunner® Channel, spilling over the side into a 2x2 vertical exit. Requires a coupler to attach channels and fittings to the vertical exit.	(1 pc.) FBC2X2LYL	Yellow

For other colors, replace YL (Yellow) with BL (Black).

### FiberRunner® Brackets and Accessories

Part Number	Description	For Threaded Rod Size In.	Color
<b>4x4 Hinged Duct Vertical Cable Manager Kit</b>			
FRHD4KTYL	Provides secure, accessible route for cables spilling out from vertical tee to rack mounted equipment. Kit includes 6' of 4x4 capacity hinged duct, 6' of 4x4 hinged duct cover, one end cap for 4x4 hinged duct, three FZBA1.5X4 adjustable "Z" brackets, an adapter fitting, six WR4-C wire retainers and all required mounting hardware. Attaches directly to 6x4 and 4x4 vertical tee exits or FRLPR64 low profile reducer.	-	Yellow
<b>Low Profile Reducer 4x4 Reducer Fitting with 2x2 Exit</b>			
FRLPR42LYL	Assembled into the 6x4 or 4x4 vertical tee allowing transition to a 2x2 channel with minimal space required.	-	Yellow
<b>1-Port Spillout Side Exit to 1.5 Inch (38mm) Inside Diameter Corrugated Tubing</b>			
FR1.5IDELYL	Used to route cable into 1.5" (38mm) diameter split corrugated tubing directly through a hole cut in the side wall of the 4x4, 6x4, and 12x4 channels.	-	Yellow
<b>Adjustable "Z" Bracket</b>			
<b>BEST SELLER</b> FZBA1.5X4	Bracket used to offset a system from the mounting surface, adjustable from 1.5" (38mm) to 4 inches (101mm).	-	Black
<b>Quick Mount Clips</b>			
FRQMC24-X	Bracket mounting clips to accommodate runs for various FiberRunner® Channels. Use on 12x4 FiberRunner® QuikLock™ Brackets to accommodate dual runs of 6x4 or 4x4 FiberRunner® Channels.	0.5	Black

For other colors, replace YL (Yellow) with BL (Black).

## FiberRunner® Brackets and Accessories (continued)



FLRB



FRTBWG18BL

Part Number	Description	For Threaded Rod Size In.	Color
<b>Existing Threaded Rod Brackets</b>			
FTRBE12	Used for supporting the 2x2 and 4x4 systems from existing threaded rod installations.	0.5	-
<b>Ladder Rack Bracket</b>			
FLRB	Used to support the 2x2 and 4x4 systems attaching directly to any 0.375" (9.5mm) x 1.5" (38.1mm) or 0.375" (9.5mm) x 2" (50.8mm) ladder rack rail. No threaded rod required.	-	-
<b>4-Post Rack Bracket</b>			
FR4PRB58	Used to support 12x4, 6x4, and 4x4 systems attaching to the top of the 19" wide version of the Panduit R4P 4-post rack.	0.625	Black
<b>Two-Piece Ladder Rack Bracket for Attaching Threaded Rod to 1.5 inches - 2 inches Ladder Rack</b>			
F2PCLB12	Two-piece bracket attaches to 0.375" (9.5mm) x 1.5" (38.1mm) or 0.625" (9.5mm) x 2" (50.8mm) ladder rack rail.	0.5	Black
F2PCLB58		0.625	
<b>New Threaded Rod Brackets</b>			
FTRBN12	Used for supporting the 2x2 and 4x4 systems from new threaded rod installations.	0.5	-
<b>Mounting Brackets</b>			
FRTBWG12BL	Threaded rod trapeze bracket used to support FiberRunner® 4x4 and 6x4 Channels above or below the Wyr-Grid® 12" Pathway using the same 0.5" or 12mm threaded rod used to support the WGTB12BL bracket. Hardware for attaching to threaded rod sold separately.	0.5	Black
FRTBWG18BL	Threaded rod trapeze bracket used to support FiberRunner® 4x4 and 6x4 Channels above or below the Wyr-Grid® 12" Pathway using the same 0.5" or 12mm threaded rod used to support the WGTB12BL bracket. Hardware for attaching to threaded rod sold separately.		
FRTBWG24BL	Threaded rod trapeze bracket used to support FiberRunner® 4x4 and 6x4 Channels above or below the Wyr-Grid® 12" Pathway using the same 0.5" or 12mm threaded rod used to support the WGTB12BL bracket. Hardware for attaching to threaded rod sold separately.		

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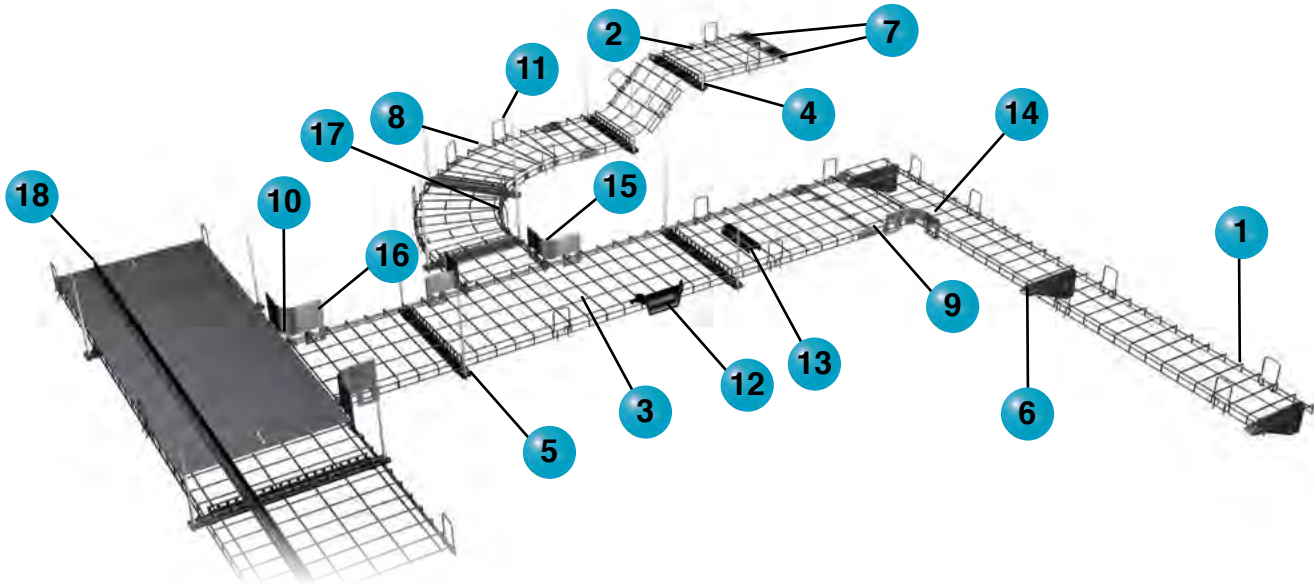
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### Wyr-Grid® Overhead Cable Tray Routing System



#### Pathway Sections

8" Width: WG8BL10 (not shown)

- 1** 12" Width: WG12BL10
- 2** 18" Width: WG18BL10
- 3** 24" Width: WG24BL10

#### Mounting Brackets

##### Trapeze Brackets

8" Wide: WGTBS8BL (not shown)

12" Wide: WGTBS12BL (not shown)

- 4** 18" Wide: WGTBS18BL
- 5** 24" Wide: WGTBS24BL

##### Cantilever Brackets

- 6** 12" Wide: WGCB12BL
- 18" Wide: WGCB18BL (not shown)
- 24" Wide: WGCB24BL (not shown)

##### Wall Mount Brackets

- 8" Wide: WGWMTB8BL (not shown)
- 12" Wide: WGWMTB12BL (not shown)
- 7** 18" – 30" Wide: WGWMTB1830BL

#### Splice Connectors

- 8** For 8", 12", and 18" Widths: WGSPL1218BL
- 9** For 24" and 30" Widths: WGSPL2430BL
- 10** Intersection Splice: WGINTSPLBL

Additional splice connectors are available. Refer to page J.34.

#### Snap-On Sidewalls

2" Sidewall: WGSW2BL (not shown)

- 11** 4" Sidewall: WGSW4BL
- 6" Sidewall: WGSW6BL

#### Waterfalls

- 12** 4" Side Waterfall: WGSWF4BL
- 13** Bottom Waterfall: WGBTMWFBL

#### Intersection Bend Radius Control

- 14** 2" High Sidewall: WGIBRC2BL
- 15** 4" High Sidewall: WGIBRC4BL
- 16** 6" High Sidewall: WGIBRC6BL

#### Accessories

- 17** Hardware Kit: WGHRDWKTBL

#### Tray Liner

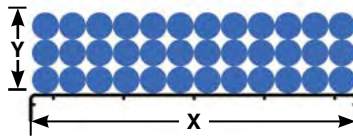
- 8" Tray Liner: WGTL8PG (not shown)
- 12" Tray Liner: WGTL12PG (not shown)
- 18" Tray Liner: WGTL18PG (not shown)
- 24" Tray Liner: WGTL24PG (not shown)

#### Divider Wall

- 2" Divider Wall: WGDW2PG (not shown)
- 18** 4" Divider Wall: WGDW4PG
- 6" Divider Wall: WGDW6PG (not shown)

## Wyr-Grid® Overhead Cable Tray Routing System

### Wire Fill for Wyr-Grid® Overhead Cable Tray Routing System



X In.	Y In.	Internal Area In <sup>2</sup>	Category 6A (SD) Diameter 6.1mm 0.240"	Category 6A Diameter 7.6mm 0.300"	Category 6 Diameter 6.1mm 0.240"	X In.	Y In.	Internal Area In <sup>2</sup>	Category 6A (SD) Diameter 6.1mm 0.240"	Category 6A Diameter 7.6mm 0.300"	Category 6 Diameter 6.1mm 0.240"
12.2	2	24.3	269	172	269	24.2	2	48.3	534	342	534
	4	48.7	538	344	538		4	96.7	1069	684	1069
	6	73.0	807	516	807		6	145.0	1603	1026	1603
18.2	2	36.3	401	257	401	30.2	2	60.3	666	427	666
	4	72.7	804	514	804		4	120.7	1334	854	1334
	6	109.0	1205	771	1205		6	181.0	2000	1280	2000

"Y" equates to the height of the Wyr-Grid® Sidewalls. The internal area defines the allowable fill capacity based on the Wyr-Grid® Pathway width and sidewall height. The Wyr-Grid® Pathway cable fill is based on NEC allowable fill of 50%. The above cable diameters represent the nominal Panduit cable diameter per performance level.

## Wyr-Grid® Pathway Sections

- Pathways are provided in five widths: 8 inch (203mm): 12 inch (305mm), 18 inch (457mm), 24 inch (610mm), and 30 inch (762mm)
- Standard finishes are black powder coat
- Non-integral sidewalls minimize specification requirements



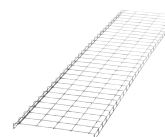
WG8BL10



WG12BL10



WG18BL10



WG24BL10

Part Number	Description
<b>Low Profile "Z" Bracket</b>	
WG8BL10	8" Wide x 118.35" long pathway section used to carry cables horizontally throughout the system. Available in black only. Uses splice connector WGSP1218BL to connect straight sections and intersection splice WGINTSPLBL to connect pathways at intersection.
WG12BL10	12" Wide x 118.35" long pathway section used to carry cables horizontally throughout the system. Uses splice connector WGSP1218BL to connect straight sections and intersection splice WGINTSPLBL to connect pathways at intersection.
WG18BL10	18" Wide x 118.35" long pathway section used to carry cables horizontally throughout the system. Available in black only. Uses splice connector WGSP1218BL to connect straight sections and intersection splice WGINTSPLBL to connect pathways at intersection.
WG24BL10	24" Wide x 118.35" long pathway section used to carry cables horizontally throughout the system. Uses splice connector WGSP2430BL to connect straight sections and intersection splice WGINTSPLBL to connect pathways at intersection.

### Wyr-Grid® Splice Connectors

- Integral bonding screw creates a mechanical electrical bond between cable tray pathway sections
- Standard finish is black powder coat
- Sold in pairs



Part Number	Description
<b>WG SPL 1218 BL</b>	Straight Splice connector quickly joins two (305mm) or 18" (457mm) wide Pathways together. Packaging contains 2 components needed to join two pathway sections.
<b>WG SPL 2430 BL</b>	Straight Splice connector quickly joins two 24" (610mm) or 30" (762mm) wide Pathways together. Packaging contains 4 components needed to join two pathway sections.
<b>WG INT SPL BL</b>	Intersection splice connector quickly joins Pathways at all intersections. Package contains 2 components needed to create one tee or right angle intersection.
<b>WG ES PL 2430 BL</b>	Straight splice connector with clips join two 8" (203mm), 12" (30mm) or 18" (457mm) wide Pathways together. Package contains 2 components needed to join two pathway sections.

### Wyr-Grid® Waterfalls

- Offered in two different configurations that attach to all pathway sections 8 inch (203mm), 18 inch (457mm), 24 inch (610mm) and 30 inch (762mm)
- Standard finish is black powder coat



Part Number	Description
<b>WG BT MW FBL</b>	The bottom waterfall provides 1.38" (35mm) bend radius control for cables transitioning down into the racks or cabinets from within the Wyr-Grid® Pathway. Standard finish is black powder coat.
<b>WG SW F4 BL</b>	The side waterfall provides 3" (76mm) bend radius control for cables transitioning down into the racks or cabinets from the side of the Wyr-Grid® Pathway. Waterfall only offered in black color.

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## Wyr-Grid® Support Brackets

- Offered in various widths to accommodate pathways 8 inch (203mm), 12 inch (305mm), 18 inch (457mm), 24 inch (610mm)
- Standard finish is black powder coat
- Integral quick-clip retention
- Accommodates 0.5 inch or 12mm threaded rod



WGTBS8BL WGTBS12BL



WGTBS18BL WGTBS24BL



WGCB12BL WGCB18BL



WGCB24BL WGWMTB8BL



WGWMTB12BL WGWMTB1830BL

Part Number	Description
<b>Wyr-Grid® Trapeze Brackets</b>	
WGTBS8BL	Used to support 8" (203mm) wide Wyr-Grid® Pathway from the ceiling using a pair of 0.5" or 12mm threaded rod drops. Hardware for attaching to threaded rod sold separately.
WGTBS12BL	Used to support 12" (305mm) wide Wyr-Grid® Pathway from the ceiling using a pair of 0.5" or 12mm threaded rod drops. Hardware for attaching to threaded rod sold separately.
WGTBS18BL	Used to support 18" (457mm) wide Wyr-Grid® Pathway from the ceiling using a pair of 0.5" or 12mm threaded rod drops. Hardware for attaching to threaded rod sold separately.
WGTBS24BL	Used to support 24" (610mm) wide Wyr-Grid® Pathway from the ceiling using a pair of 0.5" or 12mm threaded rod drops. Hardware for attaching to threaded rod sold separately.
<b>Wyr-Grid® Cantilever Brackets</b>	
WGCB12BL	Used to support the 12" (305mm) wide Wyr-Grid® Pathway along a wall. Mounting hardware for attaching to wall not included.
WGCB18BL	Used to support the 18" (457mm) wide Wyr-Grid® Pathway along a wall. Mounting hardware for attaching to wall not included.
WGCB24BL	Used to support the 24" (610mm) wide Wyr-Grid® Pathway along a wall. Mounting hardware for attaching to wall not included.
<b>Wyr-Grid® Wall Mount Termination Brackets</b>	
WGWMTB8BL	Used to support the end of the 8" (203mm) Wyr-Grid® Pathway against the wall. Mounting hardware for attaching to wall not included.
WGWMTB12BL	Used to support the end of the 12" (305mm) Wyr-Grid® Pathway against the wall. Mounting hardware for attaching to wall not included.
WGWMTB1830BL	Used to support the 24" (610mm) wide Wyr-Grid® Pathway along a wall. Integral retaining clip secures the pathway to the bracket. Mounting hardware for attaching to wall not included.
WGCB3EZ	Electro Zinc conduit bracket with openings.

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### Wyr-Grid® Support Brackets (continued)

- Offered in various widths to accommodate pathways 12 inch (305mm), 18 inch (457mm), 24 inch (610mm), and 30 inch (762mm)
- Standard finish is black powder coat
- Integral quick-clip retention
- Accommodates 0.5 inch or 12mm threaded rod



WG2PRB12BL



WG2PRB24BL



WGR4PK30BL



WGCMK1070BL

Part Number	Description
-------------	-------------

#### Wyr-Grid® 2-Post Channel Trapeze Rack Mount Brackets

WG2PRB12BL	Used to support the 12" (305mm) wide Wyr-Grid® Pathway directly to standard 3" or 6" EIA channel racks. Brackets can be installed parallel or perpendicular.
WG2PRB18BL	Used to support the 18" (457mm) wide Wyr-Grid® Pathway directly to standard 3" or 6" EIA channel racks. Brackets can be installed parallel or perpendicular.
WG2PRB24BL	Used to support the 24" (610mm) wide Wyr-Grid® Pathway directly to standard 3" or 6" EIA channel racks. Brackets can be installed parallel or perpendicular.

#### Wyr-Grid® 4-Post Channel Trapeze Rack Mount Bracket

WGR4PK30BL	Direct mounted strut bracket for use on a 4-post rack.
------------	--

#### Wyr-Grid® Cabinet Direct Mounting Brackets

WGCMB1200BL	Direct mounted strut bracket for use on a Net-Access™ N-Type or S-Type 1200mm Cabinet (not elevated).
WGCMB1070BL	Direct mounted strut bracket for use on a Net-Access™ N-Type or S-Type 1070mm Cabinet (not elevated).

#### Wyr-Grid® Cabinet Mounting Brackets

WGCMK1200BL	Elevated trapeze bracket for use on a Net-Access™ N-Type or S-Type 1200mm Cabinet (elevated).
WGCMK1070BL	Elevated trapeze bracket for use on a Net-Access™ N-Type or S-Type 1070mm Cabinet (elevated).

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## Wyr-Grid® Mounting Brackets for FiberRunner® System

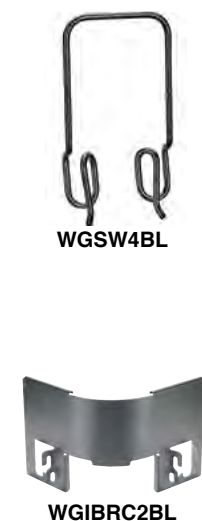
- Offered in various widths to accommodate pathways 12 inch (305mm), 18 inch (457mm), 24 inch (610mm), and 30 inch (762mm)
- Standard finish is black powder coat
- Integral quick-clip retention
- Accommodates 1/2 inch or 12mm threaded rod



Part Number	Description
<b>Wyr-Grid® Mounting Brackets for FiberRunner® System</b>	
<b>WG12FRTBBL</b>	Wyr-Grid® Pathway 12" (305mm) width FiberRunner® QuikLock™ Trapeze Bracket. Attaches to the Wyr-Grid® 12" (305mm) wide Pathway to support a secondary FiberRunner® 4x4 or 6x4 Channel above the Wyr-Grid® Pathway. Adjustable 6 0.563" to 9.875" over the top surface of the Wyr-Grid® Pathway.
<b>WG18FRTBBL</b>	Wyr-Grid® Pathway 18" (457mm) width FiberRunner® QuikLock™ Trapeze Bracket. Attaches to the Wyr-Grid® 18" (457mm) wide Pathway to support a secondary FiberRunner® 4x4 or 6x4 Channel above the Wyr-Grid® Pathway. Adjustable 6 0.563" to 9.875" over the top surface of the Wyr-Grid® Pathway.
<b>WG24FRTBBL</b>	Wyr-Grid® Pathway 24" (610mm) width FiberRunner® QuikLock™ Trapeze Bracket. Attaches to the Wyr-Grid® 24" (610mm) wide Pathway to support a secondary FiberRunner® 4x4 or 6x4 Channel above the Wyr-Grid® Pathway. Adjustable 6 0.563" to 9.875" over the top surface of the Wyr-Grid® Pathway.
<b>Wyr-Grid® Mounting Bracket for Strut</b>	
<b>WGSKBL</b>	Black powder coated bracket strut mounting clip assembly allows Wyr-Grid® Pathway to be attached directly to standard 1.625" wide strut structures. Contains support member, two clips and all hardware for assembly.

## Wyr-Grid® Accessories

- Offered in three different heights: 2 inch (50mm), 4 inch (102mm), and 6 inch (152mm)
- Standard finish is black powder coat



Part Number	Description
<b>Wyr-Grid® Pathway Snap-On Sidewalls</b>	
<b>WGSW2BL</b>	Wyr-Grid® 2" (50mm) high Snap-On Sidewalls can be attached anywhere along the pathway where needed to retain cables.
<b>WGSW4BL</b>	<b>BEST SELLER</b> Wyr-Grid® 4" (102mm) high Snap-On Sidewalls can be attached anywhere along the pathway where needed to retain cables.
<b>WGSW6BL</b>	Wyr-Grid® 6" (152mm) high Snap-On Sidewalls can be attached anywhere along the pathway where needed to retain cables.
<b>Wyr-Grid® Pathway Intersection Bend Radius Controls</b>	
Part Number	Description
<b>WGIBRC2BL</b>	Wyr-Grid® Intersection Bend Radius 2", Black.
<b>WGIBRC4BL</b>	Wyr-Grid® Intersection Bend Radius 4", Black.
<b>WGIBRC6BL</b>	Wyr-Grid® Intersection Bend Radius 6", Black.

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### Wyr-Grid® Tray Liners



WGTL18PG

Part Number	Width In.	Color
WGTL8PG	8	Black
WGTL12PG	12	
WGTL18PG	18	
WGTL24PG	24	

B. Copper Systems

C. Fiber Systems

### Divider Wall

- Provides the capability to have lane separations in the pathway
- Comes in pairs to fill the length of the pathway



WGDW2PG

Part Number	Material	Height In.	Length In.	Color
WGDW2PG	Pre-galvanized metal	2	63	Gray
WGDW4PG		4		
WGDW6PG		6		

D. Industrial Networks

E. Audio Video Systems

F. Keystone Cabling Systems

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

### Wyr-Grid® Hardware



WGHRDWKTBL

Part Number	Description	Color
WGHRDWKTBL	The hardware kit is used when field fabricating a right angle, allowing large radii to be created by cutting the pathway, bending it, and securing it into a right angle. 12" (305mm) width requires 6 pieces to create a 15.8" radius. 18" (457mm) width requires 9 pieces to create a 24.4" radius. 24" (610mm) width requires 12 pieces to create a 33.4" radius. 30" (762mm) width requires 15 pieces to create a 41.5" radius.	Black

H. Power Management

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### Wyr-Grid® Tool



WGCT-M

Part Number	Description
WGCT-M	Manual cutting tool for cutting Wyr-Grid® Cable Trays. Weight: 5.4 lbs. (2.45 kg).

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K. Surface Raceway

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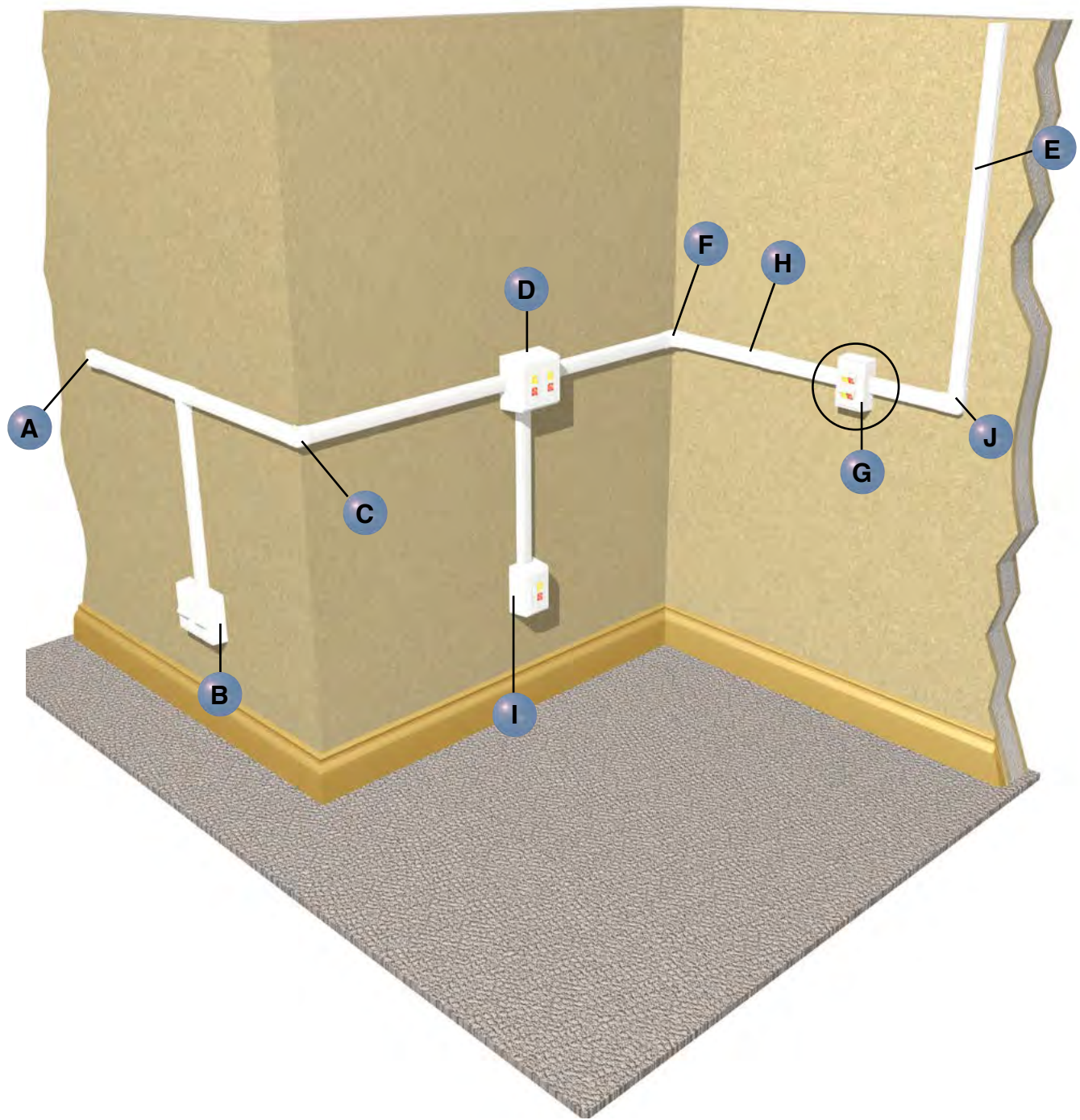
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### LD Raceway Roadmap



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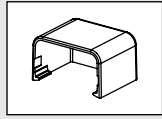
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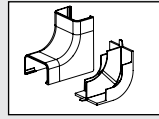
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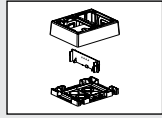
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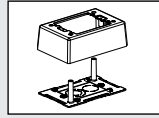
**A** ECF10IW-X – End Cap Fitting - Page K.6



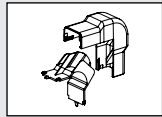
**F** ICFC10IW-X – Inside Corner Fitting - Page K.6



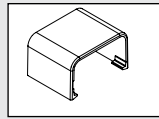
**B** JBP2SIW – Power Rated Double Gang Two-Piece Divided Box - Page K.8



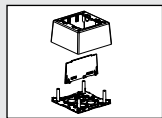
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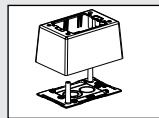
**C** OCFC10IW-X – 1 Inch Bend Radius Outside Corner Fitting - Page K.6



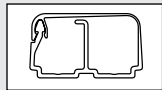
**H** CF3WH-E – Coupler Fitting - Page K.6



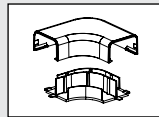
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**J** RAFC10IW-X – Right Angle Fitting - Page K.6

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### Cable Fill Capacities for LD Profile Raceway

This information is to be used as a guide in selecting the proper size raceway. The maximum amounts may vary according to the cable installation methods, straightness of cables, etc.



LD3	LD5	LD10
.21 in. <sup>2</sup>	.38 in. <sup>2</sup>	1.00 in. <sup>2</sup>

LDPH3	LDPH5	LDPH10
.17 in. <sup>2</sup>	.33 in. <sup>2</sup>	89 in. <sup>2</sup>

**SPEC = 40% cable fill** – The recommended design in cable capacity, leaves room for future moves, adds, and changes.

**MAX for Data = 60% cable fill** – The maximum cable quantity based on cable interweaving and packing factors.

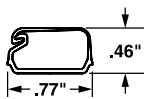
**MAX for Power cable fill** – The maximum of electrical cables based on UL temperature rise test.

Raceway Type and Configuration	Fill Area (In. <sup>2</sup> )	Electrical Cables			Data Grade Cables		Data Grade Cables		Audio/Video		Fiber Optic Cable	
		14 AWG	12 AWG	10 AWG	23 AWG/UTP	23 AWG/UTP CM	RG6		2 Strand			
		THHN/T90			Category 6 (4-pr.)		Category 6A					
		0.111	0.130	0.164	Dia. = 0.240		Dia. = 0.285		Dia. = 0.275		Dia. = 0.175	
		FILL			FILL		FILL		FILL		FILL	
		MAX	MAX	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX
		(UL Temp Rise Test)			(40%)	(60%)	(40%)	(60%)	(40%)	(60%)	(40%)	(60%)
LD3	0.21				1	2	1	1	1	2	3	5
LD5	0.38	—	—	—	3	5	2	3	2	3	6	9
LD10	1.00				8	13	6	9	6	10	16	24
LDPH3	0.17	9	7	4	1	2	1	1	1	1	2	4
LDPH5	0.33	14	12	8	2	4	2	3	2	3	5	8
LDPH10	0.89	18	18	16	7	11	5	8	5	8	14	22

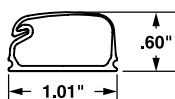
AWG dimensions represent typical outer cable diameter in inches.

### Pan-Way® LD Surface Raceway System

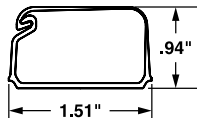
- For routing data and low voltage cabling
- One-piece hinged design allows cables to be laid in
- Factory applied adhesive backing speeds installation
- FT4 rated
- Terminates using surface mount outlet box solutions or Panduit® Mini-Com® Surface Mount Boxes



LD3  
Internal Area = .21 Sq. In.



LD5  
Internal Area = .38 Sq. In.



LD10  
Internal Area = 1.00 Sq. In.



LD3



LD5



LD10

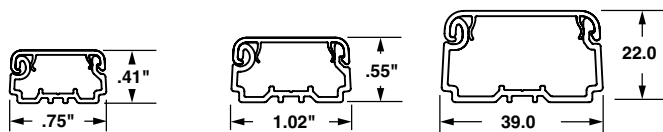


## Pan-Way® LD Surface Raceway System (continued)

Part Number	Profile	Color	Length Ft.	
LD3IW6-A	LD3	Off White	6	
LD3WH6-A		White		
LD3WH8-A			8	
LD5EI6-A	LD5	Electric Ivory	6	
LD5EI8-A			8	
LD5IW10-A			10	
LD5IW6-A		Off White	6	
LD5IW8-A			8	
LD5WH10-A		White	10	
LD5WH6-A			6	
LD5WH8-A			8	
LD10EI6-A			LD10	Electric Ivory
LD10EI8-A		8		
LD10IW10-A	10			
LD10IW6-A	Off White	6		
LD10IW8-A		8		
LD10WH10-A	White	10		
LD10WH6-A		6		
LD10WH8-A		8		

## Pan-Way® LDPH Surface Raceway System

- UL and CSA rated 600 V; meets UL 5A and CSA C22.2 No. 62.1-03 standards; FT4 rated
- Two-piece hinged design allows cables to be laid in
- Tamper resistant
- Factory applied adhesive backing speeds installation
- Terminates using surface mount outlet box solutions or Panduit® Mini-Com® Surface Mount Boxes



LDPH3

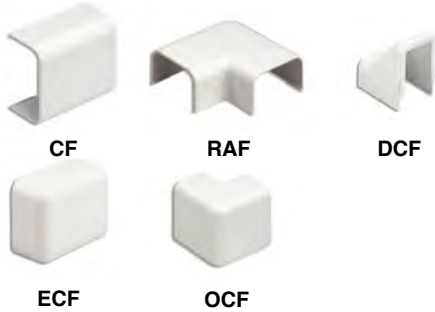
LDPH5

LDPH10

Part Number	Profile	Color	Length
LDPH3IW6-A	LDPH3	Off White	6 feet
LDPH5IW8-A	LDPH5		White
LDPH5WH8-A		International Gray	
LDPH10IG8-A	LDPH10	Off White	
LDPH10IW8-A			

A. Product Showcase

### Standard Fittings for Low Voltage Applications



Part Number	Fitting Type	Color
CF3WH-E	LD3 Low Voltage Coupler Fitting.	White
RAF3WH-E	LD3 Low Voltage Right Angle Fitting.	
DCF10IW-X	LD10 Low Voltage Drop Ceiling / Entrance End Fitting.	International White
ECF10WH-X	LD10 Low Voltage End Cap Fitting.	White
OCF10WH-X	LD10 Low Voltage Outside Corner Fitting.	
RAF10IW-X	LD10 Low Voltage Right Angle Fitting.	International White

B. Copper Systems

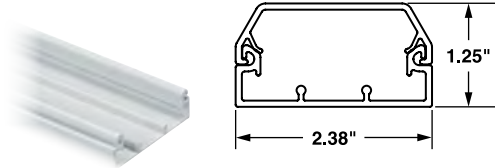
C. Fiber Systems

D. Industrial Networks



### Pan-Way® T-45 Surface Raceway System

- UL and CSA rated 600 V; meets UL 5A and CSA C22.2 No. 62.1-03 standards; FT4 rated
- Hinged cover allows easy access from either side
- Supplied with pre-punched mounting holes
- Tamper resistant
- Terminates using the T-45 hinged data or power brackets, offset box, or surface mount outlet box solutions



T45BIW10

T-45  
Internal Area = 2.12 Sq. In.

Part Number	Description	Length Ft.	Color
T45BIW10	T-45 Power Rated Multi-Channel Raceway Base.	10	International White

E. Audio Video Systems

F. Keystone Cabling Systems

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

H. Power Management



### Pan-Way® T-70 Surface Raceway System

- UL and CSA rated 600 V; meets UL 5A and CSA C22.2 No. 62.1-03 standards; FT4 rated
- Large cable capacity with aesthetically pleasing design
- Tamper resistant
- Compatible with NEMA standard 70mm faceplates or Pan-Way® Classic Series Snap-On Faceplates
- Transitions to Panduit T-45 and LD profile raceway
- Supplied with pre-punched mounting holes



T70B

T70C

T-70  
Internal Area = 5.15 Sq. In.

Part Number	Length Ft.	Color
<b>Base</b>		
T70BIW8	8	International White
T70BIW10		
<b>Cover</b>		
T70CIW8	10	International White
T70CIW10		

I. Cable Management Accessories

J. Cable Routing Systems

K. Surface Raceway

L. Part Number Index



## Pan-Way® T-70 Raceway Fittings

- T-70 fittings are designed to maintain the TIA/EIA-568-B and 569-B required minimum bend radius for high performance copper and fiber optic cabling systems



Part Number	Description	Color
T70RAIW	Right angle fitting. Used to join sections of T-70 raceway at right angles.	Off White
T70ICIW	Inside corner fitting. Used to join sections of T-70 raceway at inside corners.	
T70TIW	Tee fitting. Used to join sections of T-70 raceway at tee intersections.	



## Above Floor Raceway

- ADA Compliant over floor raceway system
- Fast snap, tamper resistant base and cover
- Power rated 4 channel design



Part Number	Description	Length Ft.	Color
AFR4BCBL6	Base and cover.	6	Black
AFR4JB2SBL	Power rated two-piece snap together junction box.	-	
AFR4RABL	Right angle fitting.	-	
AFR4CCBL	Coupler fitting.	-	
AFR4ECBL	End cap fitting.	-	
AFR4TBLGBL	Table leg transition fitting.	-	
AFR4WTRBL	Wall transition fitting.	-	

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F. Keystone Cabling Systems

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

H. Power Management

I. Cable Management Accessories

J. Cable Routing Systems

K. Surface Raceway

L. Part Number Index



### Pan-Way® Junction Boxes

- Fast-snap boxes assemble without the use of screws and accept Pan-Way® Snap-On Faceplates
- Fast-Snap boxes are supplied with adhesive backing to speed installation



JB1D\*\*-A



JBP2D

Part Number	Description	Voltage Rating	Depth In.
JBX3510IW-A*	Single gang low voltage two-piece snap together outlet box with adhesive.	Low Voltage	1.62
JB1IW-A	Single gang low voltage one-piece outlet box with adhesive.		1.75
JB1DIW-A**	Single gang low voltage one-piece outlet box with adhesive, deep.		2.75
JBP1DIW	Single gang two-piece screw together outlet box, deep.	Power Rated	2.75
JBP2IW	Double gang two-piece screw together outlet box, standard.		1.62
JBP2SIW	Double gang two-piece screw together outlet box, separated channel.		1.62
JBP1DIW**	Double gang two-piece screw together outlet box, deep.		2.75

\*Replace IW (Off White) with EI (Electric Ivory) or WH (White).

\*\*Replace IW (Off White) with WH (White)

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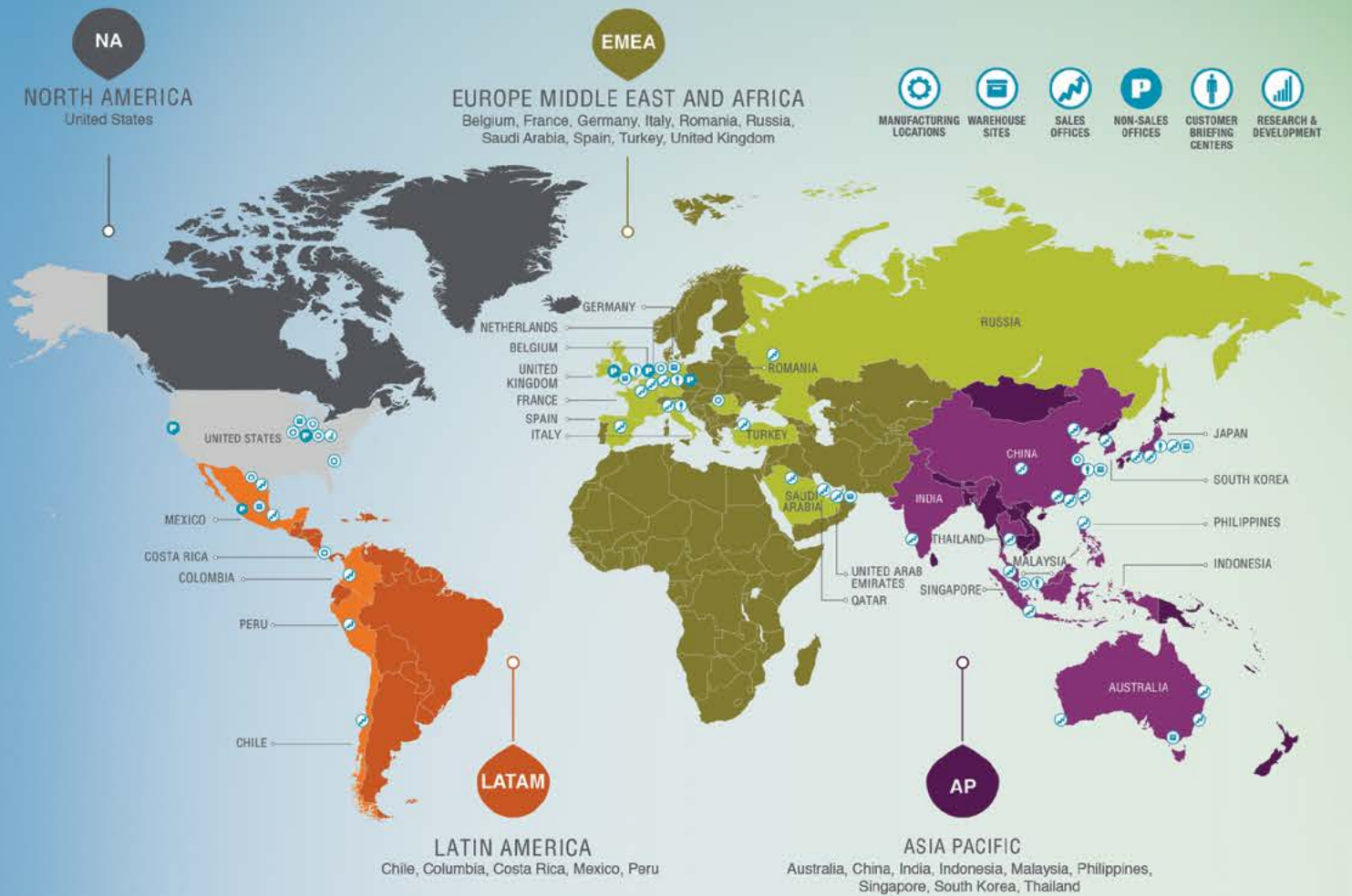
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