Network Infrastructure

North America

PANDUIT® 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 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 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**

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**

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

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

PUP6AHD04BU-G

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)		

TX6A™ Category 6A Shielded Copper Cable

PUFP6X04BU-UG

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			

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	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

TX6000™ Enhanced Category 6 Unshielded Copper Cable

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

PUP6004BU-WLP

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

PUP6C04BU-ULP

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

PFP6C04BU-UG

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		0.323			
PFO6X04BL-CEG			F/UTP				
PUO6AS04BL-G	Indoor / Outdoor Plenum (CMP, FT-6)		U/UTP	0.260	CMP-LP (0.8A)		

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		

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

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^BU

Part Number	Performance Level	Cable Type	AWG	Cable Diameter In. (mm)	Flammability Rating	Length^	Color*
UTP28X^*	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^*	Category 6			0.15 (3.8)			
UTP6AX^*	Category 6A		24	0.25 (6.4)	CM	1, 3, 5, 7, 10, 15 ft.	
UTPSP^*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^MIG

Part Number	Performance Level	Cable Type	AWG	Cable Diameter In. (mm)	Flammability Rating	Length m^	Color*
STP28X^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^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**.

PanZone® Plug to Plug Cable Assemblies

UZPPBU^

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

CJ6X88TGBL

CJ688TGBU

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	Black (BL), Blue (BU), White (WH)	
CJ688TG*-24		Category 6		
CJS6X88TGY	Shielded Standard	Category 6A	Black	
CJS688TGY		Category 6		

-24 indicates 24 pieces per package.

Other Available Jack Modules

CJLR6X88TGBU

CJH6X88TGBU

CJS6X88TGGRY

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	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)	
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		
CJLR6X88TG*	Unshielded Left/Right	Category 6A		
CJLR688TG*		Category 6		
CJH6X88TG*	Unshielded Spring Shuttered	Category 6A		
CJH688TG*		Category 6		
CJS6X88TG*Y	Shielded Standard	Category 6A	Blue (BU), Green (GR), Red (RD), Violet (VL), White (WH), Yellow (YL)	
CJS688TG*Y		Category 6		
CJS6X88TGY-24		Category 6A	Black	
CJS688TGY-24		Category 6		

-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
- Compatible with Mini-Com® Modular Patch Panels and Faceplates; not compatible with surface mount box applications
- Also available as 24-port coupler patch panels, see page B.13

CC6X88BL

BEST SELLER Best Seller Coupler Modules

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

FP6X88MTG

FPS6X88MTG

BEST SELLER Best Seller Field Term Plugs

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

FPUD6X88MTG

Other Available Field Term Plugs

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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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

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

SP6X88-C

SPS6X88-C

Part Number	Type	Peformance 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	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		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)	0.036–0.040 (0.91–1.02)

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

CJLRCAPBU-X

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

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

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

CJSLRCAPBU-X

Part Number	Type	Peformance 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	Blue
FC-ICC/P3MWH					White
FC-OCCO1MBL	Shielded/Outdoor Connector Cord		CMX	1	Black
FC-OCCO3MBL				3	
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

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Tools and Accessories

EGJT-1

EGPT

TGJT

MPT5-8AS

CJAST

CWST

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.	
SGPT		Termination Tool for 28 AWG Panduit Modular Plugs.	Blue
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

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
Flush Mount					
BEST SELLER CPP24FMWBLY	24	1	Flat	Adhesive	Black
CPP24FM6BL					
CPP24FMWWH					White
CPPA24FM6BL			Angled*		Black
CPPA24FMWWH					White
BEST SELLER CPPA24FMWBLY					Black
BEST SELLER CPP48FMWBLY	48	2	Flat		
BEST SELLER CPPA48FMWBLY			Angled*		
CPP48FM6BL			Flat		
CPPA48FM6BL			Angled*		
CPP48FMWWH			Flat		White
CPPA48FMWWH			Angled*		
CPP72FMWBLY	72		Flat		Black
CPPA72FMWBLY			Angled*		
Front Access					
BEST SELLER CPP24WBLY	24	1	Flat	Adhesive	Black
BEST SELLER CPPL24WBLY				Label Pocket	
CPPL24M6BLY					
CPPLA24WBLY			Angled*		
CPPL48M6BLY	48	2	Flat		
BEST SELLER CPP48WBLY				Adhesive	
BEST SELLER CPPL48WBLY				Label Pocket	
BEST SELLER CPPLA48WBLY			Angled*		
CPP48WBLY			Flat	Adhesive	

*Patented design

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Mini-Com® Modular Patch Panels (continued)

CPPA48HDWBLY

CP24BLY

CP48BLY

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

DP24688TGWH

DP48688TGY

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				
BEST SELLER DP246X88TGY			Category 6A				110
DP246X88TGWH						White	
DPA246X88TGY				Angled*		Black	
DPA246X88TGWH						White	
BEST SELLER DP24688TGY			Category 6	Flat		Black	
DP24688TGWH						White	
DPA24688TGWH				Angled*			
DPA24688TGY						Black	
VP24382TV25Y			Category 3	Flat			RJ21
BEST SELLER DP486X88TGY	48	2	Category 6A				110
DP486X88TGWH						White	
BEST SELLER DPA486X88TGY				Angled*		Black	
DPA486X88TGWH						White	
BEST SELLER DP48688TGY			Category 6	Flat		Black	
BEST SELLER DPA48688TGY				Angled*			
DP48688TGWH				Flat		White	
DPA48688TGWH				Angled*			

TPK2A32R88S68

Angled Patch Panel Kit

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
BEST SELLER SRB19BLY	Strain Relief Bar	Extended	Black
BEST SELLER SRB19D5BL		Deep	
SRB19D7BL			
SRB19MDBL		Multi-Depth	
SRBBRKT	Mounting Bracket	Quick Release	
CPATCBL	Transitional Cover	Angled	
CPATCWH			White
CPAF1BLY	Filler Panel		Black
CPAF2BLY			
CPAF1WH			White
CPAF2WH			

Identification Products

Part Number	Description
MP300 Printer / Label Cassettes	
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.

Identification Products (continued)

MP300 Printer / Label Cassettes

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

Part Number	Description	Printer Compatibility MP100	Printer Compatibility MP300	Color	Width In.	Width mm	Length Ft.	Length 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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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

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
BEST SELLER 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
BEST SELLER S100X225YAJ			2.25	0.75	0.24	0.48	Category 6 FTP, Category 6A UTP, Category 6A FTP, 8 - 4 AWG	8	32

TDP Printer / Labels

Part Number	Description
BEST SELLER 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.

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
BEST SELLER 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	
BEST SELLER S100X150VATY			1.5	0.5	0.16	0.32	Category 5e UTP, Category 6 UTP, Category 6A UTP, Category 5e FTP, 10 – 6 AWG	
BEST SELLER S100X225VATY			2.25	0.75	0.24	0.48	Category 6 FTP, Category 6A UTP, Category 6A FTP, 8 – 4 AWG	

SmartKeeper Security Devices

SKMKEY

SKUSBC

SKUSBA-V

SKRJ45RD-X

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

PSL-DCPLE-BL

PSL-DCPLRE-C

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

PSL-DCJB-BU

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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QuickNet™ Cable Assembly Components

Cable

Factory-bundled trunk of six cables.

Cable types:

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

End 1

End 2

End 1 and End 2 Options

UTP Cassette

Shielded Cassette

UTP Jack Modules

UTP Modular Plugs

End 2 only Options

Unterminated

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**.

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				Casette to Unterminated		
QZRBCCB0001F010			Riser	Cassette to Cassette		
QZRBCJB0001F010				Cassette to Jack		
QZRBCUB0001F010				Casette to Unterminated		

Like what you see…and want more?

For more QuickNet™ Trunk options, visit **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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Direct Attach Passive Cable Assemblies (continued)

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
QuickNet™ Unshielded Patch Panels			
QPP24**	24	1	Flat
QPP48HD**	48		
QAPP24**	24		Angled*
QAPP48HD**	48		
QuickNet™ Shielded Patch Panels			
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

CFP1WH

CFPL2WHY

CFPL4WHY

CFPE2WHY

CFPE4WHY

Part Number	Ports	Style	Identification	Color
Classic Series				
CFP1WH	1	Flat	Adhesive	White
CFP1IW				Off White
CFPL1IWY			Label Pocket	
CFPL1WHY				White
BEST SELLER CFPL2WHY	2			
CFP2WH			Adhesive	
CFP2IW				Off White
CFPL2IWY			Label Pocket	
CFPSL2IWY		Sloped		
CFPSL2WHY				White
CFPL4WHY	4	Flat		
CFPL4IWY				Off White
CFPSL4IWY		Sloped		
CFPSL4WHY				White
Executive Series				
CFPE1IWY	1	Flat	Label Pocket	Off White
CFPE1WHY				White
BEST SELLER CFPE2IWY	2			Off White
BEST SELLER CFPE2WHY				White
CFPE4IWY	4			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
BEST SELLER CFPL2SY	2	Flat	Label Pocket	Single Gang
CFP2SY			Adhesive	
BEST SELLER 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		
BEST SELLER CFFPL4BL		4			
CFFP4BL			Adhesive		
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
BEST SELLER CMBBL-X	Reserves a one module space for future use in Mini-Com® Patch Panels, Faceplates, and Surface Mount Boxes.	Black
BEST SELLER 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.

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

CBX1WH-A

CBX2WH-AY

CBX4IW-AY

CBXQ6WH-A

CBXF6IW-AY

Part Number	Ports	Style	Identification	Magnet	Raceway Compatibility	Color
Standard						
BEST SELLER CBX1WH-A	1	Elongated	Adhesive	-	LD3/LDPH3	White
CBX1IW-A						Off White
CBXQ1WH-A		Quick Release		CQBM-X		White
CBXQ1IW-A						Off White
BEST SELLER CBX2WH-AY	2	Elongated		CBM-X	LD3/LDPH3 LD5/LDPH5	White
CBX2IW-AY						Off White
CBXQ2IW-A		Quick Release	Label Pocket	CQBM-X		
CBXQ2WH-A						White
CBX4IW-AY	4	Elongated		CBM-X		Off White
CBX4WH-AY						White
CBXQ4IW-A		Quick Release		CQBM-X	LD3/LDPH3 LD5/LDPH5 LD10/LDPH10	Off White
CBXQ4WH-A						White
CBXQ6WH-A	6					
CBXQ6IW-A						Off White
Multimedia						
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
BEST SELLER FLCDMCXAQY	Duplex	Multimode	OM3/OM4/OM5	Aqua
FLCDSCBUY		Singlemode	OS1/OS2	Blue
FLCSMC5BLY	Simplex	Multimode	OM2	Black
FLCSMC6EIY			OM1	Electric Ivory
BEST SELLER FLCSMCXAQY			OM3/OM4/OM5	Aqua
BEST SELLER FLCSSCBUY		Singlemode	OS1/OS2	Blue

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)

FSC2MCXAQ

FST2MC6EI

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

FLCS2/9SOCU9BU

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

FOCTT2-BKIT2

FOCTT2-PKIT2

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		50µm Multimode OM4	6
BEST SELLER FODPZ12Y			12
BEST SELLER FODPZ24Y			24
FODRX06Y	Riser	50µm Multimode OM3	6
BEST SELLER FODRZ12Y		50µm Multimode OM4	12
BEST SELLER FODRZ24Y			24
BEST SELLER FSDP912Y	Plenum	9µm Singlemode OS2	12
BEST SELLER FSDP924Y			24
BEST SELLER FSDR912Y	Riser		12
BEST SELLER 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
FSPP906Y	Plenum	9µm Singlemode OS2	6
FSPP912Y			12
FSPP91AY			144
FSPP924Y			24
FSPP948Y			48
FSPP972Y			72
FSPP996Y			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 (OFCR) or Plenum (OFCP) 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

FSGR912Y

FOMPX24Y

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			

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

FOKRX48

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

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Opti-Core® Fiber Optic Indoor/Outdoor Interlocking Armored 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 (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

FSLR912

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

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

FOTNZ12

Part Number	Flame Rating	Fiber Type	Fiber Count
FOTNX06	Non-Rated	50µm Multimode OM3	6
FOTNX12			12
FOTNZ12		50µm Multimode OM4	
FSTN912		9µm Singlemode OS2	
FSTN91A			144
FSTN924			24

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

- 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

FOIPZ02Y

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

Opti-Core® Ribbon Fiber Cable

- 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

FFDPAX144F

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

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

FADSLCZAQ-L

FADSLCZBU-L

Part Number	Adapter Type	Color	Split Sleeve
BEST SELLER FADSLCZAQ-L	Duplex LC	Aqua	Zirconia
BEST SELLER 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
BEST SELLER CMDSAQLCZBL	Duplex LC	Aqua	Zirconia	Black
CMDSAGLCZBL	Duplex LC APC	Green		
CMDSLCZBL	Duplex LC	Blue		
BEST SELLER CMDSLCZBU				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

FLEX4U04

FLEX1UPN04

FLEX1U06

FLEX1UPN06

FLEX-0RUBR06

FLEX1U12

FLEX1UPN12

Part Number	No. of Rack Spaces	Type	Cassette/FAP Openings	Color
FLEX1U04	1	4-Port Enclosure	18	Black
FLEX2U04	2		36	
FLEX4U04	4		72	
FLEX1UPN04	1	4-Port Panel	18	
FLEX2UPN04	2		36	
FLEX4UPN04	4		72	
BEST SELLER FLEX1U06**	1	6-Port Enclosure	12	Black **Add WH for White
BEST SELLER FLEX2U06**	2		24	
FLEX4U06**	4		48	
FLEX1UPN06**	1	6-Port Panel	12	
FLEX2UPN06**	2		24	
FLEX4UPN06**	4		48	
FLEX1U12	1	12-Port Enclosure	6	Black
FLEX2U12	2		12	
FLEX4U12	4		24	
FLEX1UPN12	1	12-Port Panel	6	
FLEX2UPN12	2		12	
FLEX4UPN12	4		24	
FLEX-0RUBR06**	0	6-Port Bracket and Cassette Holder	2	Black **Add WH for White

HD Flex™ Raised Floor Enclosure

FLEX-ZRFEG

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

FHC9N-12-10AF

FHCZO-12-10AS

FHCXO-24-10U

Part Number	Fiber Type	Fiber Count	No. of MPOs	No. of Duplex LCs	Performance	Polarity
HD Flex™ LC/MPO Cassettes						
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	Modified Method A (Pair Flipped)
BEST SELLER FHCZA-12-10AS						Method A
FHCZA-12-10U						Universal
FHCZO-12-10AF					Optimized	Modified Method A (Pair Flipped)
FHCZO-12-10AS						Method A
FHCZO-12-10U						Universal
FHCSA-12-10U	OM4+				Ultra	
FHCWA-12-10BN	OM5					Method 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	
BEST SELLER FHCZO-24-10BN	OM4					Method B
FHCZO-24-10U						Universal
FHCSA-24-10U	OM4+				Ultra	
FHCWA-24-10BN	OM5					Method B

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FHC9N-16-C2U

HD Flex™ CS/MPO Cassettes

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	36	(18) CS		
FHCZO-16-C2U	OM4	(2) 8F MPO	16	(8) CS	Optimized	
FHCZO-16F-C2U		(1) 24F MPO				
FHCZO-36-C3U		(3) 12F MPO	36	(18) CS		

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
HD Flex™ 4-to-1 Conversion Cassettes						
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						
BEST SELLER FHCXO-24F-10A	OM3	24	1x24f	12	Optimized	Method A
BEST SELLER FHCZO-24F-10A	OM4					
BEST SELLER FHC9N-24F-10A	OS2				Standard	

HD Flex™ Fiber Optic Cassettes (continued)

FH4ZU-48-NMNMA

HD Flex™ Dark Fiber Conversion Cassette

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

FHSZO-12-10R

HD Flex™ Splice Cassettes

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.
BEST SELLER 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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HD Flex™ Adapter Panel and Accessories (continued)

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

FCE1U

FCE2U

FCE4U

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

FRME1U

FRME3

FRME2U

FRME4

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 instillation 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
BEST SELLER FWME2	2
BEST SELLER FWME4	4
FWME8	8

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
Standard Fiber Mount Trays		
FMT1**	Mount with 1 CFAPPBL1 fiber adapter patch panel.	4
BEST SELLER FMT2	Mount with 2 CFAPPBL1 fiber adapter patch panels.	8

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

Opticom® Rack Mount Fiber Drawers

FMD1

FMD2

Part Number	Description
BEST SELLER FMD1	Rack Mount Fiber Drawer 1 RU.
BEST SELLER 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).

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
Standard Flat Fiber Adapter Patch Panels		
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

FC2XN-12-10U

FC2WA-12-10B1

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

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Opticom® QuickNet™ MPO Fiber Optic Cassettes (continued)

FC2XN-24-10U

FC29N-24-10AS

Part Number	Fiber Type	Fiber Count	Port Count	No. of MPOs	Performance	Polarity
24 Fiber LC Cassettes						
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	
FC2WA-24-10B1	OM5					Method B End 1
FC2WA-24-10B2						Method B End 2
FC2XN-24-10U	OM3				Standard	Universal
FC2XO-24-10U					Optimized	
FC2ZA-24-10U	OM4				Ultra	
FC2ZN-24-10AF					Standard	Modified Method A (Pair Flipped)
FC2ZN-24-10AS						Method A
FC2ZO-24-10AF					Standard	Modified Method A (Pair Flipped)
FC2ZO-24-10AS						Method A
FC2ZO-24-10U						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
MPO Opticom® Fiber Adapter Panels (FAPs)					
FAPH0412BLMPO	4	12f MPO	Method A, Key-Up/Key-Down	Black	Horizontal
FAPH0612BLMPO	6				
FAPH0812BLMPO	8				
FAPH1212BLMPO	12				
FAPH0412CGMPO	4		Method B, Key-Up/Key-Up	Charcoal Gray	Horizontal
FAPH0612CGMPO	6				
FAPH0812CGMPO	8				
FAPH1212CGMPO	12				
FAPH0424RDMPO	4	24f MPO	Method A, Key-Up/Key-Down	Red	Horizontal
FAPH0624RDMPO	6				
FAPH0824RDMPO	8				
FAPH1224RDMPO	12				

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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

FAP12WAQDLCZ

FAP6WAQDSCZ

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

Opticom® Accessories and Splice Solutions

FAPB

FOSMF

FST24

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

QPP24BL

QPP48HDBL

QAPP24BL

QAPP48HDBL

QSP24BL

QASP24BL

QASP48HDBL

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

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

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QuickNet™ Patch Panels and Accessories

QPPABL

QPPBBL

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.

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

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	
FQWA-12-10B1	OM5					Method B End 1
FQWA-12-10B2						Method B End 2
FQXO-12-10U	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

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
BEST SELLER FQ3ZO-08-10B	OM4	8	4	1x12f	4	Optimized
BEST SELLER FQ39N-08-10A	OS2					Standard

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
QuickNet™ MPO Fiber Adapter Panels (FAPs)				
FQMAP45BL	4	12f MPO	Method A, Key-Up/ Key-Down	Black
FQMAP65BL	6			
FQMAP85BL	8			
FQMAP46CG	4		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			

QPPABL

QPPBBL

FQCRCM

Part Number	Description
QuickNet™ Accessories	
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

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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
8 and 12 Fiber Interconnects					
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		10 feet
FZTRP7N7NYNM003		12	12f Female PanMPO to 12f Female PanMPO		3 meters
FSTRP7N7NKNM003	OM4+			Method A/Ultra IL	
FWTRP7N7NLNF010	OM5			Method B/Ultra IL	10 feet
F98RPGNGNANF010	OS2	8	8f Female MPO to 8f Female MPO	Method A/ Standard IL	
F9TRP5N5NANF010		12	12f Female MPO to 12f Female MPO		

Part Number	Fiber Type	Fiber Count	Connector Type	Performance/ Polarity	Length Ft.
24 Fiber Interconnects					
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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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/ICEA S-83-596-2016
- RoHS Complaint
- Standard 1 meter breakout length

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						

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				

Like what you see… and want more?

For more Fiber Trunk options, visit **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
BEST SELLER 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		3			
FZ2ERLNLNSNM001	OM4	LC Duplex to LC Duplex		1.6			
FZ2ERLNSNSNM001		LC Duplex to SC Duplex					
BEST SELLER FZ23RSNSNSNM001		SC Duplex to SC Duplex		3			
BEST SELLER F92ERLNLNSNM001	OS2	LC Duplex to LC Duplex		1.6			
F92ERLNSNSNM001		LC Duplex to SC Duplex					
F92ERB1LNSNM001		LC/APC to LC Duplex					
F92ERB1B1SNM001		LC/APC to LC/APC					
F92ERB1SNSNM001		LC/APC to SC Duplex					
F923RSNSNSNM001		SC Duplex to SC Duplex		3			
F923RANSNSNM001		SC/APC Duplex to SC Duplex					
F923RANANSNM001		SC/APC Duplex to SC/APC Duplex					
F92ERANB1SNM001		SC/APC to LC/APC		1.6			

*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**.

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Uniboot Patch Cords

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		LC/APC Uniboot to LC/APC Uniboot					

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

CS Connector Patch Cords

FZ2RPZNZNONM001

Part Number	Fiber Type	Connector Type	Fiber Count	Jacket mm	Flame Rating	Performance	Length m*
FZ2RPZNZNONM001	OM4	CS to CS	2	2	Plenum	Optimized IL	1
F92RPZNZNONM001	OS2						

*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**.

Pigtails

F91BN1NNNSNM001

F9TBN1NNNSZM001

Part Number	Fiber Type	Connector Type	Fiber Count	Jacket	Flame Rating	Performance	Length m
FX1BN1NNNSNM001	OM3	LC to Pigtail	1	No Jacket	Not Rated	Standard IL	1
FXTBN1NNNSZM001			12				
FX1BN3NNNSNM001		SC Simplex to Pigtail	1				
FZ1BN1NNNSNM001	OM4	LC to Pigtail					
FZTBN1NNNSZM001			12				
FZ1BN3NNNSNM001		SC Simplex to Pigtail					
F91BN1NNNSNM001	OS2	LC to Pigtail	1				
F91BN1NNNSNM002							2
F91BN1NNNSNM003							3
F96BN1NNNSZM001			6				1
F9TBN1NNNSZM001			12				
F91BNB1NNNSNM001		LC/APC to Pigtail	1				
F91BN3NNNSNM001		SC Simplex to Pigtail					
F91BNANNNSNM001		SC/APC to Pigtail					

Like what you see…and want more?

For more Fiber Pigtail options, visit **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

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	4-Pair, Solid, F/UTP, 600 V, CMR	Black
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	

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

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			Shielded, Stranded, S/FTP Patch Cord with Caps	Black	2
ISTPH6X2MTL			Shielded, Stranded, SF/UTP, 600 V Patch Cord, RJ45 Plug to RJ45 Plug	Teal	
ISTPSP5MBL	Category 6		Shielded, Stranded, S/UTP Patch Cord. Includes Dust Caps	Black	5
ISTPHCH0.6MTL	Category 5e	24	Shielded, Stranded, SF/UTP, 600 V Patch Cord, RJ45 Plug to RJ45 Plug	Teal	0.6
BEST SELLER ISTPHCH1MTL					1
BEST SELLER ISTPHCH2MTL					2
ISTPHCH3MTL					3
BEST SELLER ISTPHCH5MTL					5
ISTPHCH10MTL					10

IndustrialNet™ Copper Connectors

- 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

ICAM12X90RJS

ISPS6A88MFA

IAEBH6XS

MPI588T

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

IAEBHUSBAA

Part Number	Description
Mini-Com® Coupler Module	
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

ICD11T1TL1M

ICD22T1NTL1M

Part Number	Pin	Termination End 1	Termination End 2	Jacket	Shielding	Color
A-Code						
ICA3E13P2BL1M	3	M8 Male Connector	M8 Female Connector	Polyurethane (PUR)	Unshielded	Black
ICA4E13P2BL1M	4					
ICA4T13P2BL1M		M12 Male Connector	M12 Female Connector			
ICA5T13P2BL1M	5					
D-Code, Category 5e, 600 V						
ICD11T2NTL1M	4	M12 Male Connector	M12 Male Connector	Thermoplastic Elastomer (TPE)	Unshielded	Teal
ICD11T1NTL1M					Shielded	
ICD12T1NTL1M			90° Male Connector			
ICD13T1NTL1M			M12 Female Connector			
ICD14T1NTL1M			RJ45 Plug			
ICD22T1NTL1M		M12 90° Male Connector	90° Male 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
X-Code, Category 6A, 600 V						
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
- Include labels for easy moves, adds and changes
- Compact size and low profile saves valuable DIN rail space
- Easy installation - no special tools required

CADIN1BL

CDPP8RG

FDME8RG

Part Number	Description	Color
Mini-Com® DIN Rail Mount Adapter		
BEST SELLER CADIN1BL	Single-Port DIN Rail Mount Adapter.	Black
CADIN1BL-S	Shielded Single-Port DIN Rail Mount Adapter.	
IndustrialNet™ DIN Rail Mount Copper Patch Panel		
BEST SELLER CDPP8RG	8-Port Patch Panel, DIN Rail Mount.	International Gray
CDPP8RG-S	Shielded 8-Port Patch Panel, DIN Rail Mount.	
IndustrialNet™ DIN Rail Mount Fiber Enclosure		
BEST SELLER FDME8RG	8-Port Fiber Optic Enclosure, DIN Rail Mount.	International Gray
Fiber Termination Enclosure		
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
Power over Ethernet Applications			
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)
Traditional AC Power Applications			
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
24" x 36" Universal Network Zone; for Two Industrial Switches				
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		
Z23U-S21				Redundant Power Supplies with Battery Based UPS
24" x 24" Universal Network Zone; for One Industrial Switch				
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		
24" x 36" Pre-Configured Network Zone; for Two Industrial Switches				
Z23C-S	Mild Steel	Category 6 UTP	Sixteen Copper Patch Cords and Jacks, Six LC adapters, Four LC OM3 Patch Cords	-
24" x 24" Universal Network Zone; for One Industrial Switch				
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
12U Universal Distribution Frame for Industrial DIN Mount Switches			
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
26U Universal Distribution Frame for Industrial DIN Mount Switches			
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
12U Industrial Distribution Frame for Two Access or Two Distribution Switches			
ZDF242430	Mild Steel	Two 48-Port Patch Panels, Fiber Tray, Fiber Spools, Back Panels, 10" DIN Rail, 30" Length of Duct	-
26U Industrial Distribution Frame for Two Access and Two Distribution Switches			
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
12U Industrial Distribution Frame with Access Control for Two Access or Two Distribution Switches			
ZDF242430DA2	Mild Steel	G5 Electronic Swinghandle with Built-In Low Frequency (125kHz) Card Reader	One Intelligent Power Distribution Unit (iPDU)
26U Industrial Distribution Frame with Access Control for Two Access or Two Distribution Switches			
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

PANDUIT®

ATLONA
a PANDUIT company

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®.

zoom

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.
**Atlona 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

5×2 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.atlona.com/omega.

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OmniStream

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.

AV control, room scheduling, and asset management

The Atlona **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.

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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

NK6X88MBU

BEST SELLER Best Seller Jack Modules

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

NK688MBL

Other Jack Modules Available

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

NK6APC7BU

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

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

NKPPA48HDWH

NKPPA48FMY

NK6PPG12WY

NKA6XPPG24Y
NKA6PPG24Y

NK6XPPG24Y
NK6PPG24Y

NK6PPG48Y

Part Number	Ports	No. of Rack Units	Style	Identification	Color	Design
Modular Panels						
NKFPL24	24	1	Flat	Label Pocket	Black	Front Access
NKPP24FMWH				Adhesive	White	Flush Mount
NKPPA24FMWH			Angled*			
NKPP24FMY			Flat		Black	
NKPPA24FMY			Angled*			
BEST SELLER NKFP24Y			Flat			Front Access
NKFPA24			Angled*			
NKPPA48HDY	48			N/A		High Density
NKPP48HDY			Flat			
NKPP48HDWH					White	
NKPPA48HDWH			Angled*			
NKFPL48		2	Flat	Label Pocket	Black	Front Access
NKFP48Y				Adhesive		
NKFPP48FMWH					White	Flush Mount
NKPPA48FMWH			Angled*			
NKPPA48FMY					Black	
NKFPA48						Front Access

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

*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			

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		

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

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**.

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			Black				
XG64822WS0001					White				
XG74212BS0001	700	42	1070		Black				
XG74212WS0001					White				
XG74222BS0001			1200		Black				
XG74222WS0001					White				
XG74512BS0001		45	1070		Black				
XG74512WS0001					White				
XG74522BS0001			1200		Black				
XG74522WS0001					White				
XG74822BS0001		48			Black				
XG74822WS0001					White				
XG84222BS0001	800	42			Black				
XG84222WS0001					White				
XG84522BS0005		45			Black		Both Sides	Yes	Left Side
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.

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

FlexFusion™ PDU Mounting Brackets

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

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

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

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

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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

Standard Configured Cabinets

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

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

12 RU

E6212B1

24 RU

E6412B2

- 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
Side Panel Kits				
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
PDU Brackets and Cable Management			
SN15F	X	X	Finger Kit (100mm Length) 42-45 RU Cabinets
SN25F			Finger Kit (150mm Length) 42-45 RU Cabinets
SN18F			Finger Kit (100mm Length) 48 RU Cabinets
NVPDUBE		—	PDU Bracket - Sold in Pairs
SPDUBRK	—	X	
S2BRK6			Combination PDU/Cable Management Bracket - 6" Wide
S2BRK12			Combination PDU/Cable Management Bracket - 12" Wide
SN8VCM	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)

NCSTR4

CCL3

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

Net-Access™ Cabinet Thermal Management Accessories

NVBP

N2EOR1BA1070B1
N2EOR1CA1200B1

C2FAB08A1200B1

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

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.

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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Net-Contain™ Universal Containment System (continued)

CUCGF06DPB1

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

**B1 = Black, W1 = White

CUEORF04DPB1

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

**B1 = Black, W1 = White

Part Number	Description
Top of Cabinet Blanking Panel	
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
Full Height Blanking Panels		
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
Vertical Wall (Mounted Onto UAC Frame)			
Adjustable vertical wall mounted onto UAC frame to seal gap up to ceiling plenum in aisle containment.			
C2HAC06I1626**	16-26 (406-660)	600	**Add B1 for Black **Add W1 for White
C2HAC06I2638**	26-38 (660-965)		
C2HAC06I3866**	38-66 (965-1676)		
C2HAC07I1626**	16-26 (406-660)	700	
C2HAC07I2638**	26-38 (660-965)		
C2HAC07I3866**	38-66 (965-1676)		
C2HAC08I1626**	16-26 (406-660)	800	
C2HAC08I2638**	26-38 (660-965)		
C2HAC08I3866**	38-66 (965-1676)		

Net-Contain™ Universal Containment System (continued)

Part Number	Description	Color
Vertical Wall Brace (Mounted Onto UAC Frame)		
CUVWB12S12ST**	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

Part Number	Size	Color
Vertical Wall Adapter		
Vertical wall adapter used to mount Vertical Walls to UAC frame in aisle containment.		
CUVWA06S06ST**	600mm Adapter for 1200mm Aisle Width	**Add B1 for Black **Add W1 for White
CUVWA07S07ST**	700mm Adapter for 1200mm Aisle Width	
CUVWA08S08ST**	800mm Adapter for 1200mm Aisle Width	

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	Description	Compatible With CAC/HAC
Dual Sliding Doors					
Dual sliding doors provide thermal seal at the end of the row and attach to the end of row frames.					
CUD1SD**	X	X	1200/1800	Double Sliding Door	CAC/HAC
CUD2SD**				Double Sliding Door, Packaged as a Pair	

Part Number	Height Range In. (mm)	Aisle Width mm	Color
Vertical Wall (Mounted Above End of Row Frame)			
C2HACERI1626**	16-26 (406-660)	1200	**Add B1 for Black **Add W1 for White
C2HACERI2638**	26-38 (660-965)		
C2HACERI3866**	38-66 (965-1676)		

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

Part Number	Length	Color
Wall Beam to Wall Seal		
CUSRWSK06**	Used with 600mm Wall Beams	**Add B1 for Black **Add W1 for White
CUSRWSK07**	Used with 700mm Wall Beams	
CUSRWSK08**	Used with 800mm Wall Beams	
CUSRWSK24**	Used with 2400mm Wall Beams	

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

CUSREFRT8W1

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	RU	UAC/USRC
End of Row Frames					
CUSREFRT8^^*	X	X	900	42 RU to 45 RU	USRC
CUSREFRT9^^*				48 RU to 52 RU	

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

CUEFRCKITB1

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	RU	UAC/USRC
USRC to UAC Conversion Kit					
CUEFRCKIT**	X	X	900	—	UAC

Attaches to end of row frames.
**B1 = Black, W1 = White

CUSRRF0S06B1

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	Width mm	UAC/USRC
Rigid Roof Sections					
CUSRRFS06**	X	—	900	600	UAC/USRC
CUSRRFS07**				700	
CUSRRFS08**				800	

**B1 = Black, W1 = White

CUCGF03DPB1

Part Number	Roof Containment	Vertical Wall Containment	Row Width mm	Cabinet Width mm	UAC/USRC
Drop Away Panels					
CUCGF03DP**	X	—	900	—	UAC/USRC

**B1 = Black, W1 = White

CUEORF03DPB1

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	Cabinet Width mm	UAC/USRC
End of Row Kits for Drop Away Panels					
CUEORF03DP**	X	—	900	—	UAC/USRC

**B1 = Black, W1 = White

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

CUSRVWA06B1

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	Vertical Wall Width	UAC/USRC
USRC Vertical Wall Adapters					
CUSRVWA06**	—	X	900	600	UAC/USRC
CUSRVWA07**				700	
CUSRVWA08**				800	

**B1 = Black, W1 = White

CUSRVWBB1

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	Cabinet Width mm	UAC/USRC
Vertical Wall Brace					
CUSRVWB**	—	X	900	—	UAC/USRC

**B1 = Black, W1 = White

CUSRVWERI1626B1

Part Number	Roof Containment	Vertical Wall Containment	Adjustability In.	Aisle Width mm	UAC/USRC
End of Row Vertical Wall					
CUSRVWERI1626**	—	X	16-26	900	UAC/USRC
CUSRVWER2638**			26-38		
CUSRVWER3866**			38-66		

**B1 = Black, W1 = White

CUSR1SDLHB1

Part Number	Roof Containment	Vertical Wall Containment	Aisle Width mm	Description	UAC/USRC
Sliding Doors					
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
End Of Row Caps				
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.

CDE2

DIFBA2002S00S

DERLCC6509A

Part Number	Description
Air Inlet Ducting	
CDE2	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.
DIRLC2214M21W	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.
DIRBB2007S21W	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.
CID1RU22-23DB1	Air inlet 1 RU duct for Cisco^ Nexus^ 9372 switch, compatible with 21.5" – 23.5" switch depth.
DIFBA2002S00S	Air inlet duct for Cisco^ Nexus^ 9396 switch.
DIRLC3210S17W	Air inlet duct for Cisco^ Catalyst^ 6807XL switch.
Exhaust Ducting	
DERLCC6509A	Air exhaust duct for Net-Access™ N-Type 1070mm depth cabinets. Designed for Cisco^ Catalyst^ 6509 switch.
DERLCC7009A	Air exhaust duct for Net-Access™ N-Type 1070mm depth cabinets. Designed for Cisco^ Nexus^ 7009 switch.

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Thermal Sealing Accessories

FLBSIM-51

TLBP1R-V

TLBP1S-V

TLBP2R-V

RFG*X*Y

RFG*X*SMY

Part Number	Description	Color
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
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.

CTGN1X5

CTGN3X5

CTGN6X6

CTCN1X5

CTCN3X5

CTCN6X6

CTNBZL6X6

Part Number	Description
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.

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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
BEST SELLER PR2VD06	84.0 (2130)	6.0 (152)	20.6 (523)	45	Dual	2	Black
BEST SELLER PR2VD08		8.0 (203)					
BEST SELLER PR2VD10		10.0 (254)					
BEST SELLER PR2VD12		12.0 (305)					
BEST SELLER PR2VFD06		6.0 (152)	12.0 (304.8)		Single	1	
PR2VFD08		8.0 (203)					
BEST SELLER PR2VSD06		6.0 (152)	20.6 (523)		Dual		
BEST SELLER 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
BEST SELLER PE2VD06	84.0 (2130)	6.0 (152)	26.8 (681)	45	Dual	2	Black
BEST SELLER PE2VD08		8.0 (203)					
BEST SELLER 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

WMPV45E

NetRunner™ Vertical Cable Manager

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

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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
BEST SELLER WMP1E	3.5 (89)	19.0 (483)	8.9 (226)	2	Dual	Black
BEST SELLER WMPF1E			3.7 (94)		Single	
BEST SELLER WMPH2E			8.9 (226)		Dual	
BEST SELLER WMPFSE	1.7 (44)		2.7 (69)	1	Single	
BEST SELLER WMPSE			8.9 (226)		Dual	
WMPHF2E	3.5 (89)		3.7 (94)	2	Single	
WMPLFSE	1.7 (44)		2.7 (69)	1		
WMPLSE			7.9 (200)		Dual	

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

NMF1

NMF2WH

Part Number	Height In. (mm)	Width In. (mm)	Depth In. (mm)	No. of Rack Units	Single or Dual Sided	Color
BEST SELLER NMF1	1.7 (44)	19.0 (482)	6.2 (157)	1	Single	Black
BEST SELLER 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

R4PCN

Part Number	Height In. (mm)	Width In. (mm)	Depth In. (mm)	No. of Rack Units	Equipment Rails	Load Capacity Lbs.	Color
BEST SELLER R4P	84.0 (2134)	23.3 (591)	30.0 (762)	45	#12-24 Threaded	2500	Black
BEST SELLER R4PCN					Cage Nut		
R4P23CN			23.0 (584)				
R4P36			36.0 (914)		#12-24 Threaded		
R4P36CN					Cage Nut		
R4P42CN			42.0 (1054)				

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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		

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

R2P

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

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	

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

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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
BEST SELLER CPB6BL	7 (177.8)	6.99 (177.5)	2.48 (63)	1	6	Steel	Black
BEST SELLER CPB12BL	11.3 (287)	7.15 (181.6)			12		
BEST SELLER CPB24BL	20.15 (511.8)	12.15 (308.6)	1.93 (49.1)		24		
BEST SELLER CPB48BL			3.74 (95)	2	48		

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		

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
BEST SELLER PZWMC12W							Window
PZWMC18W			34 (863.6)	18			
PZWMC26W			48.2 (1224.3)	26			
PZWMC1230W		30 (762)	23.8 (604.5)	12			
PZWMC1230WH						White	
PZWMC1830W			34 (863.6)	18		Black	
PZWMC1830WH						White	
PZWMC2630W			48.2 (1224.3)	26		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

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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

WME31RU

WBH1

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
BEST SELLER **RGCBNJ660P22**	HTCT2-2.1	#6 AWG (16mm²) 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
Grounding Busbar Kits for Threaded Rail Fasteners	
BEST SELLER **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
BEST SELLER **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.

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
BEST SELLER **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

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.

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)

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
BEST SELLER P16D22M	20	0U HALF	L5-20P	1.9	16	(16)5-20R	32.2	2.0	2.1
BEST SELLER P24D24M		0U MID	L6-20P	3.3	24	(20)C13, (4)C19	58.7		
BEST SELLER P24D23M	30		L5-30P	2.9		(24)5-20R			
BEST SELLER P24D07M			L6-30P	5.0		(20)C13,(4)C19			
BEST SELLER P38D25M		0U FULL			38	(32)C13, (6)C19	68.9		
208VAC, 3-Phase									
BEST SELLER P36D08M	30	0U FULL	L15-30P	8.6	36	(30)C13, (6)C19	68.9	2.0	2.1
BEST SELLER P38D28M			L21-30P		38	(30)C13, (6)C19, (2)5-20R			
P36D29M	50		CS8365C	10.0	36	(30)C13, (6)C19			
BEST SELLER P24D34M	60		IEC 60309 3P+E 9h	17.3	24	(12)C13, (12)C19			
BEST SELLER P48D35M		0U FULL - 2 sided	IEC 60309-460P9		48	(36)C13, (12)C19	71.7		4.4

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									
BEST SELLER P24E28M	30	0U FULL	L6-30P	5.0	24	(20)C13, (4)C19	68.9	2.0	2.1
BEST SELLER P16E19M		2U	L6-30P	5.0	16	(12)C13, (4)C19	3.4	17.5	10.6
P36E33M		0U FULL	L6-30	5.0	36	(30)C13, (6)C19	68.9	2.0	2.1
P12E21M	20	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

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

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									
BEST SELLER P24G01M	30	0U FULL	L6-30P	5.0	24	(20)C13, (4)C19	68.9	2.0	2.1
208VAC, 3-Phase									
BEST SELLER 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	60		IEC 60309 3P+E 9h	17.3	24	(12)C13, (12)C19			
P48G21M		U FULL - 2 sided	IEC 60309-460P9		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

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
100-120VAC, 1-Phase									
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					
BEST SELLER **P16B08M**			L5-20P						
P22B09M	30		L5-30P	2.9	22	(22)5-20R			
240VAC 1-Phase									
P22B10M	20	0U HALF	L6-20P	3.3	22	(20)C13, (2)C19	32.2	2.0	2.1
208VAC, 1-Phase									
BEST SELLER **P12B47M**	30	0U FULL	L6-30P	8.6	36	(30)C13, (6)C19	68.9	2.0	2.1
BEST SELLER **P42B17M**	50			14.4	24	(12)C13, (12)C19			
208VAC, 3-Phase									
BEST SELLER **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

ACF05 ACF06

ACF10

ACF11

ACF20

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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CE 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 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
Loop Ties – Slot allows for pre-wrapping of bundles								
BEST SELLER 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								
HLT3I-X0	12.00	305.0			3.18	81.0		
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

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

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
15' and 75' Continuous Rolls – Can be cut to desired length, eliminating waste								
BEST SELLER HLM-15R0	15.0	4.6	0.33	8.40	Various	Various	18	80
HLM-15R6								
HLM-15R7								
HLM-15R10								
HLM-15R15								
HLM-15R16								
BEST SELLER HLS-15R0			0.75	19.1			50	222
HLS-15R7								
HLS15R10								
HLS-15R15								
HLS15R16								
BEST SELLER HLS-75R0	75.0	22.9						
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 In.	Length m	Width In.	Width mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str.* Lbs.	Min. Loop Tensile Str.* 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
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
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 Ft.	Length m	Width In.	Width mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str.* Lbs.	Min. Loop Tensile Str.* N
TTR-20R0	20.0	6.1	0.75	19.1	Various	Various	40	178
TTR-35R3-0	35.0	10.7						
BEST SELLER TTR-35RX0								
TTR-75R0	75	22.9						

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

CE 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 In.	Length m	Width In.	Width mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str.* Lbs.	Min. Loop Tensile Str.* N
Cinch Ties								
UCT3S-X0	12.00	305.0	0.85	21.6	3.00	76.0	50	222
Cinch Ties with Brass Grommet								
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.	Cable Diameter Range mm
BEST SELLER CBOT24K	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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CE 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
BEST SELLER ABMT-A-C20*			
ABMT-S6-C	#6 (M3) Screw		Natural
BEST SELLER ABMT-S6-C20			Black

*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

ULC c UL us LISTED

JP2W-L20

JP2CMB-L20

JP2DW-L20

Part Number	Description	Max. Bundle Capacity In.	Max. Bundle Capacity mm	Max. Cable Capacity* Category 6A-SD/6A (0.30")	Max. Cable Capacity* Category 6 (0.24")	Max. Cable Capacity* Category 5e (0.23")	Material**
Wall Mount							
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	
BEST SELLER JP2W-L20		2.00	50.8	30	46	55	
JP4W-X20		4.00	101.6	115	180	200	
Ceiling Mount							
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	
Drop Wire and Threaded Rod Clip							
BEST SELLER 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
BEST SELLER JP131DW-L20		1.31	33.3	15	25	29	
BEST SELLER JP2DW-L20		2.00	50.8	30	46	55	
BEST SELLER 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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JP2SBC50RB-L20

JP4SBC50-X20

J-Pro™ Cable Support System (continued)

JP131SBC50-L20

JP2SBC50RB-L20

Part Number	Description	Max. Bundle Capacity In.	Max. Bundle Capacity mm	Max. Cable Capacity* Category 6A-SD/6A (0.30")	Max. Cable Capacity* Category 6 (0.24")	Max. Cable Capacity* Category 5e (0.23")	Material**
Screw-On Beam Clamps							
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	
BEST SELLER JP75SBC50RB-L20		0.75	19.0	5	8	10	
JP2SBC50RB-L20		2.00	50.8	30	46	55	

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JP2HBC25RB-L20

J-Pro™ Cable Support System (continued)

JP2HBC25RB-L20
JP2HBC50RB-L20

Part Number	Description	Max. Bundle Capacity In.	Max. Bundle Capacity mm	Max. Cable Capacity* Category 6A-SD/6A (0.30")	Max. Cable Capacity* Category 6 (0.24")	Max. Cable Capacity* Category 5e (0.23")	Material**
Hammer-On Beam Clamps							
JP75HBC25RB-L20	J Hook with hammer-on beam clamp for use with flanges 1/8" – 1/4" (3.2mm – 6.4mm) thick. Rotates 360 degrees.	0.75	19.0	5	8	10	Nylon 6.6 J Hook with Metal Attachments
JP131HBC25RBL20		1.31	33.3	15	25	29	
JP2HBC25RB-L20		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" – 1/2" (7.9mm – 12.7mm) thick. Rotates 360 degrees.	0.75	19.0	5	8	10	
JP131HBC50RBL20		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.
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24x4 Routing System Roadmap

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)

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

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

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

5 FRT24X4W12L** – 24x4 Horizontal Tee with 12x4 Exit and FRTCV24W12L** – Cover (page J.4)

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

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

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

9 FREC24X4L** – 24x4 End Cap Fitting (page J.5)

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

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

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

13 FRRF2412L** – 24x4 to 12x4 FiberRunner® Reducer Fitting and FRRF2412CVL** – Cover (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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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

FR24X4YL10

FRCV24YL10

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

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

24x4 FiberRunner® QuikLock™ Coupler

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

FRBC24X4LYL

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).

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

FRTCV24W12LYL

Part Number	Description	Couplers Required	Color
24x4 Four-Way Cross Fitting			
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
24x4 Four-Way Cross Fitting with 12x4 Exits			
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
24x4 Horizontal 45° Angle Fitting			
FRH4524X4LYL	Attaches to a 24x4 channel and/or fittings to create a 45° horizontal turn from a straight horizontal run.	(2 pcs.) FRBC24X4LYL	Yellow
24x4 Horizontal Tee with 12x4 Exits			
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 FRTCV24W12LYL.	(2 pcs.) FRBC24X4LYL (1 pc.) FRBC12X4LYL	Yellow
Cover for 24x4 Horizontal Tee with 12x4 Exits			
FRTCV24W12LYL	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
Cover for 24x4 Horizontal 45° Angle Fitting			
FRH45CV24LYL	Cover for the horizontal 45° angle fitting FRH4524X4LYL.	—	Yellow
24x4 End Cap Fitting			
FREC24X4LYL	Used for closing off open ends of the channel or fittings.	—	Yellow
24x4 Outside Vertical 45° Fitting			
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
Cover for 24x4 Outside Vertical 45° Angle Fitting			
FROV45CV24LYL	Cover for the outside vertical 45° angle fitting FROV4524X4LYL.	—	Yellow
24x4 Inside Vertical 45° Fitting			
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
Reducer from 24x4 to 12x4 FiberRunner® Fitting or Channel			
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
3-Sided BRC Trumpet Spillout for 24x4 Exits			
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

FR24TBE12

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

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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)

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

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

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

4 FRH4512X4L** – 12x4 Horizontal 45° Angle Fitting and FRH45SC12L** – Split Cover (page J.11)

5 FRRA12X4L** – 12x4 Horizontal Right Angle Fitting and FRRASC12L** – Split Cover (page J.11)

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)

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

9 FRIV4512X4L** – 12x4 Inside Vertical 45° Angle Fitting (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)

12 FREC12X4L** – 12x4 End Cap Fitting (page J.10)

13 FRTR12X4L** – 3-Sided BRC Trumpet Spillout for 12x4 Exit (page J.12)

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

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

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

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

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

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

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

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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

FR12X4YL10

Part Number	Description	Color
12x4 FiberRunner® Channel		
BEST SELLER **FR12X4YL10**	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
12x4 Snap-On Hinged Cover		
FRHC12YL10	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

FRBC12X4LYL

Part Number	Description	Color
BEST SELLER **FRBC12X4LYL**	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
- Protect against signal loss and performance degradation
- Assemble using FRBC QuikLock™ Couplers
- Split covers snap onto each fitting
- Covers feature 0.75 inch (19mm) gap to allow cable to be laid in

FRFWC12X4LYL

FRFWCSC12LYL

FRH4512X4LYL

Part Number	Description	Couplers Required	Color
12x4 Four-Way Cross Fitting			
FRFWC12X4LYL	Attaches to a 12x4 channel and/or fitting to create a horizontal four-way cross intersection with two 12x4 exits.	—	Yellow
Split Cover for 12x4 Four-Way Cross			
FRFWCSC12LYL	Split cover for the four-way cross fitting FRFWC12X4LYL.	—	Yellow
12x4 Four-Way Cross Fitting with 4x4 Exits			
FRH4512X4LYL	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

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

12x4 FiberRunner® System Fittings (continued)

FRFWC12X4W6LYL

FRT12X4LYL

FRTSC12LYL

FRH4512X4LYL

FRH45SC12LYL

FRRA12X4LYL

FRT12X4W4LYL

FRT12X4W6LYL

FRTSC12W6LYL

FREC12X4LYL

FROV4512X4LYL

Part Number	Description	Couplers Required	Color
12x4 Four-Way Cross Fitting with 6x4 Exits			
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
12x4 Horizontal Tee Fitting			
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
Split Cover for 12x4 Horizontal Tee Fitting			
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
12x4 Horizontal 45° Angle Fitting			
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
Split Cover for 12x4 Horizontal 45° Angle Fitting			
FRH45SC12LYL	Split cover for the horizontal 45° angle fitting FRH4512X4LYL.	—	Yellow
12x4 Horizontal Right Angle Fitting			
FRRA12X4LYL	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
Split Cover for 12x4 Horizontal Right Angle Fitting			
FRRASC12LYL	Split cover for the horizontal right angle fitting FRRA12X4LYL.	—	Yellow
12x4 Horizontal Tee with 4x4 Exits			
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
12x4 Horizontal Tee with 6x4 Exits			
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
Split Cover for 12x4 Horizontal Tee with 6x4 Exit			
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
12x4 End Cap Fitting			
FREC12X4LYL	Used for closing off open ends of the channel or fittings.	—	Yellow
12x4 Outside Vertical 45° Angle Fitting			
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).

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12x4 FiberRunner® System Fittings (continued)

FROV45SC12LYL

FROVRA12X4LYL

FROVRASC12LYL

FRIV4512X4LYL

Part Number	Description	Couplers Required	Color
Split Cover for 12x4 Outside Vertical 45° Angle Fitting			
FROV45SC12LYL	Split cover for the outside vertical 45° angle fitting FROV4512X4LYL.	—	Yellow
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
Split Cover for 12x4 Outside Vertical Right Angle Fitting			
FROVRASC12LYL	Split cover for the outside vertical 90° angle fitting FROVRA12X4LYL.	—	Yellow
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

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
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
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
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
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
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
Reducer Cover for the 12x4 Y-Reducer Fitting			
FRY126SCLYL	Reducer cover for the Y-reducer fitting FRY126LYL.	—	Yellow

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

12x4 FiberRunner® System Spillouts (continued)

FRRF126SCLYL

FRRF126LSCLYL

FRRF126RLYL

FRRF126RSCLYL

FRCR12LBL-X

Part Number	Description	Couplers Required	Color
Split Cover for Reducer 12x4 Fitting to 6x4 Exit			
FRRF126SCLYL	Split cover for reducer fitting FRRF126LYL.	—	Yellow
Transition Left Reducer 12x4 Fitting to 6x4 Exit			
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
Split Cover for Transition Left Reducer 12x4 Fitting to 6x4 Exit			
FRRF126LSCLYL	Split cover for the reducer fitting FRRF126LYL.	—	Yellow
Transition Right Reducer 12x4 Fitting to 6x4 Exit			
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
Split Cover for Transition Right Reducer 12x4 Fitting to 6x4 Exit			
FRRF126RSCLYL	Split cover for the reducer fitting FRRF126RLYL.	—	Yellow

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

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

12x4 FiberRunner® Mounting Brackets

FR12ACAB

FR12ALB

FR12TRBN58

FR12CS58

FR12TB58

Part Number	Description	For Threaded Rod Size
Top Support Adjustable "C" QuikLock™ Bracket		
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		
FR12ACB58		0.625"
FR12ACB12M		12mm
Adjustable Ladder Rack Bracket		
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.	—
Existing Threaded Rod QuikLock™ Bracket		
FR12TRBE58	Used to support the 12x4 system from existing threaded rod installations.	0.625"
FR12TRBE58M		16mm
New Threaded Rod QuikLock™ Bracket		
FR12TRBN58	Used to support the 12x4 systems from any new threaded rod installations.	0.625"
Center Support QuikLock™ Bracket		
FR12CS12	Used to support the 12x4 systems from below with new threaded rod.	0.5"
FR12CS58		0.625"
FR12CS12M		12mm
Trapeze 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

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6x4 Routing System Roadmap

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)

1 FR6X4**10 – 6x4 FiberRunner® Channel (page J.16)

2 FRHC6**10 – 6x4 Snap-On Hinged Cover (page J.16)

3 FRSHC6**10 – 6x4 Split Hinged Cover (page J.16)

4 FRBC6X4L** – 6x4 QuikLock™ Coupler (page J.16)

5 FRH456X4L** – 6x4 Horizontal 45° Angle Fitting and FRH45SC6L** – Split Cover (page J.17)

6 FRRA6X4L** – 6x4 Horizontal Right Angle Fitting and FRRASC6L** – Split Cover (page J.17)

7 FRT6X4L** – 6x4 Horizontal Tee Fitting and FRTSC6L** – Split Cover (page J.17)

8 FRFWC6X4L** – 6x4 4-Way Cross Fitting and FRFWCSC6L** – Split Cover (page J.16-17)

9 FRVT6X4L** – 6x4 QuikLock™ Vertical Tee (page J.18)

10 FRIV456X4L** – 6x4 Inside Vertical 45° Angle Fitting (page J.18)

11 FRIVRA6X4L** – 6x4 Inside Vertical 90° Angle Fitting (page J.18)

12 FROV456X4L** – 6x4 Outside Vertical 45° Angle Fitting and FROV45SC6L** – Split Cover (page J.17)

13 FROVRA6X4L** – 6x4 Outside Vertical Right Angle Fitting and FROVRASC6L** – Split Cover (page J.17)

14 FREC6X4L** – 6x4 End Cap Fitting (page J.17)

15 FRTR6X4L** – 3-Sided BRC Trumpet Spillout for 6x4 Exit (page J.18)

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

17 FRIDT6X4L** – 3-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing (page J.18)

18 FRSPJ2X2L** – Spill-Over Junction with 2x2 Exit (J.30) and FRSPJC26L** – Cover for 6x4 System (page J.19)

19 FRSPJ4X4L** – Spill-Over Junction with 4x4 Exit (page J.24) and FRSPJC46L** – Cover for 6x4 System (page J.19)

20 FRRF6FR4L** – 6x4 to 4x4 FiberRunner® Reducer Fitting and FRRF6FR4SCL** – Split Cover (page J.18)

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

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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

FR6X4YL10

FRHC6YL10

FRSHC6YL10

Part Number	Description	Color
6x4 Channels		
FR6X4YL10	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
6x4 Snap-On Hinged Cover		
FRHC6YL10	Hinge feature enables positioning of cover at angles between 30° and 90°.	Yellow
6x4 Split Hinged Cover		
FRSHC6YL10	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

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

FRBC6X4LYL

Part Number	Description	Color
BEST SELLER **FRBC6X4LYL**	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
- Protect against signal loss and performance degradation
- Assemble using FRBC QuikLock™ Couplers
- Split covers snap onto each fitting

FRFWC6X4LYL

Part Number	Description	Couplers Required	Color
6x4 Four-Way Cross Fitting			
FRFWC6X4LYL	Attaches to a 6x4 channel and/or fittings to create a horizontal four-way cross intersection. Accepts split cover FRFWCSC6LYL.	(4 pcs.) FRBC6X4LYL	Yellow

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
Split Cover for 6x4 Four-Way Cross Fitting			
FRFWCSC6LYL	Split cover for the four-way cross fitting FRFWC6X4LYL.	—	Yellow
6x4 Horizontal Tee Fitting			
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
Split Cover for 6x4 Horizontal Tee Fitting			
FRTSC6LYL	Split cover for the horizontal tee fitting FRT6X4LYL	—	Yellow
6x4 Horizontal 45° Angle Fitting			
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
Split Cover for 6x4 Horizontal 45° Angle Fitting			
FRH45SC6LYL	Split cover for the horizontal 45° angle fitting FRH456X4LYL.	—	Yellow
6x4 Horizontal Right Angle Fitting			
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
Split Cover for 6x4 Horizontal Right Angle Fitting			
FRRASC6LYL	Split cover for the horizontal right angle fitting FRRA6X4LYL.	—	Yellow
6x4 End Cap Fitting			
FREC6X4LYL	Used for closing off open ends of the channel or fittings.	—	Yellow
6x4 Outside Vertical 45° Angle Fitting			
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
Split Cover for 6x4 Outside Vertical 45° Angle Fitting			
FROV45SC6LYL	Split cover for the outside vertical 45° angle fitting FROV456X4LYL.	—	Yellow
6x4 Outside Vertical Right Angle Fitting			
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
Split Cover for 6x4 Outside Vertical Right Angle Fitting			
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)

FRIV456X4LYL

FRIVRA6X4LYL

FRRF6FR4LYL

FRRF6FR4SCLYL

Part Number	Description	Couplers Required	Color
6x4 Inside Vertical 45° Angle Fitting			
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
6x4 Inside Vertical Right Angle Fitting			
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
6x4 to 4x4 Reducer Fitting			
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
Split Cover for 6x4 to 4x4 Reducer Fitting			
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

- 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

FRVT6X4YL

FRTR6X4LYL

FRIDT6X4LYL

Part Number	Description	Couplers Required	Color
6x4 Vertical Tee			
BEST SELLER **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
3-Sided BRC Trumpet Spillout for 6x4 Exit			
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
3-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing			
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
Dual Downspout with Throat Covers			
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
6x4 Dual Downspout Cover			
FRDDSHC6LYL	Used to fully enclose the 6x4 dual downspout fitting FRDDS6X4LYL.	-	Yellow
6x4 Spill-Over Junction with 2x2 Exit			
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
Cover for Spill-Over Junction with 4x4 Exit for 6x4 Channel			
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).

6x4 Cable Retainer			
FRCR6LBL-X	Holds cable in the channel when cover is not used.	-	Black

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4x4 Routing System Roadmap

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)

1 FR4X4**10 – 4x4 FiberRunner® Channel (page J.22)

2 FRHC4**10 – 4x4 Snap-On Hinged Cover (page J.22)

3 FRSHC4**10 – 4x4 Split Hinged Cover (page J.22)

4 FRBC4X4L** – 4x4 QuikLock™ Coupler (page J.22)

5 FRH454X4L** – 4x4 Horizontal 45° Angle Fitting and FRH45SC4L** – Split Cover (page J.23)

6 FRRA4X4L** – 4x4 Horizontal Right Angle Fitting and FRRASC4L** – Split Cover (page J.23)

7 FRT4X4L** – 4x4 Horizontal Tee Fitting and FRTSC4L** – Split Cover (page J.22 - J.23)

8 FRFWC4X4L** – 4x4 4-Way Cross Fitting and FRFWCSC4L** – Split Cover (page J.22)

9 FRVT4X4L** – 4x4 QuikLock™ Vertical Tee (page J.24)

10 FRIV454X4L** – 4x4 Inside Vertical 45° Angle Fitting (page J.23)

11 FRIVRA4X4L** – 4x4 Inside Vertical Right Angle Angle Fitting (page J.23)

12 FROV454X4L** – 4x4 Outside Vertical 45° Angle Fitting and FROV45SC4L** – Split Cover (page J.23)

13 FROVRA4X4L** – 4x4 Outside Vertical Right Angle Fitting and FROVRASC4L** – Split Cover (page J.23)

14 FREC4X4L** – 4x4 End Cap Fitting (page J.23)

15 FRTR4X4L** – 3-Sided BRC Trumpet Spillout for 4x4 FiberRunner® Exit (page J.24)

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

17 FRIDT4X4L** – 2-Port Spillout to 1.5" (38mm) inside diameter Corrugated Tubing (page J.24)

18 FRSPJ2X2L** – Spill-Over Junction with 2x2 Exit and FRSPJC24L** – Cover for 4x4 System (page J.30)

19 FRSPJ4X4L** – Spill-Over Junction with 4x4 Exit and FRSPJC44L** – Cover for 4x4 System (page J.24)

20 FRRF4FD2L** – 4x4 FiberRunner® System to 2x2 Reducer Fitting with Cover (page J.23)

21 FRLPR42L** – Low Profile Reducer 4x4 to 2x2 for Vertical Tee (page J.30)

**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

FR4X4YL10

FRHC4YL10

FRSHC4YL10

Part Number	Description	Color
4x4 Channels		
BEST SELLER **FR4X4YL10**	Used to carry the cables horizontally throughout the system. Accepts hinged cable retainers FRCR4LBL-X, hinged cover FRHC4LYL10, or split hinged cover FRSHC4LYL10. Use QuikLock™ Coupler FRBC4X4LYL to attach channel and/or fittings.	Yellow
4x4 Snap-On Hinged Cover		
FRHC4YL10	Snap-on hinged cover for channel FR4X4YL10. Hinge feature enables positioning of cover at angles between 30° to 90°.	Yellow
4x4 Split Hinged Cover		
FRSHC4YL10	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
BEST SELLER **FRBC4X4LYL**	Pre-assembled coupler quickly joins two sections of channel. and/or fittings.	Yellow
BEST SELLER **FRBC4X4LYL-E**		

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

FRFWC4X4LYL

FRFWCSC4LYL

FRT4X4LYL

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

FRIV45X4LYL

FRIVRA4X4LYL

FRRF4FD2LYL

Part Number	Part Description	Couplers Required	Color
Split Cover for 4x4 Horizontal Tee Fitting			
FRTSC4LYL	Split cover for the horizontal tee fitting FRT4X4LYL.	—	Yellow
4x4 End Cap Fitting			
FREC4X4LYL	Used for closing off open ends of the channel or fittings.	—	Yellow
4x4 Horizontal 45° Angle Fitting			
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
Split Cover for 4x4 Horizontal 45° Angle Fitting			
FRH45SC4LYL	Split cover for the horizontal 45° angle fitting FRH454X4LYL.	—	Yellow
4x4 Horizontal Right Angle Fitting			
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
Split Cover for 4x4 Horizontal Right Angle Fitting			
FRRASC4LYL	Split cover for the horizontal right angle fitting FRRA4X4LYL.	—	Yellow
4x4 Outside Vertical 45° Angle Fitting			
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
Split Cover for 4x4 Outside Vertical 45° Angle Fitting			
FROV45SC4LYL	Split cover for the outside vertical 45° angle fitting FROV454X4LYL.	—	Yellow
4x4 Outside Vertical Right Angle Fitting			
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
Split Cover for 4x4 Outside Vertical Right Angle Fitting			
FROVRASC4LYL	Split cover for the outside vertical 90° angle fitting FROVRA4X4LYL.	—	Yellow
4x4 Inside Vertical 45° Angle Fitting			
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
4x4 Inside Vertical Right Angle Fitting			
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
4x4 to 2x2 Reducer Fitting with Cover			
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
- 2 inch (50.8mm) bend radius control
- Transition to channel, slotted channel, and corrugated loom tubing

FRVT4X4LYL

FTR4X4LYL

FRTR4X4LYL

FRIDT4X4LYL

FRSPJ4X4LYL

FRSPJC44LYL

FRSPJC24LYL

FRCR4LBL-X

Part Number	Description	Couplers Required	Color
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
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
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
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
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
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
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

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

4x4 and 6x4 FiberRunner® Mounting Brackets

FR6ACB12

FR6ALB

FR6TRBE12

FR6TRBN12

FR6TB38

FR6CS58

FR6LB

Part Number	Description	Couplers Required
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		
BEST SELLER 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.	-
Existing Threaded Rod QuikLock™ Bracket		
BEST SELLER 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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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)

1 HS2X2**10 – 2x2 FiberRunner® Hinged Channel (page J.28)

2 H2X2**10 – 2x2 FiberRunner® Hinged Slotted Channel (page J.28)

3 HC2**10 – 2x2 FiberRunner® Snap-On Hinged Cover (page J.28)

4 FBC2X2L** – 2x2 QuikLock™ Coupler (page J.28)

5 FRA2X2L** – 2x2 Horizontal Right Angle Fitting (page J.29)

6 FT2X2L** – 2x2 Horizontal Tee Fitting (page J.28)

7 FFWC2X2L** – 2x2 4-Way Cross Fitting (page J.28)

8 FVTHD2X2L** – 2x2 Vertical Tee (page J.29)

9 FIV452X2L** – 2x2 Inside Vertical 45° Angle Fitting (page J.29)

10 FIVRA2X2L** – 2x2 Inside Vertical Right Angle Fitting (page J.29)

11 FOV452X2L** – 2x2 Outside 45° Angle Fitting (page J.29)

12 FOVRA2X2L** – 2x2 Outside Vertical Right Angle Fitting (page J.29)

13 FHDEC2X2L** – 2x2 End Cap Fitting (page J.29)

14 FTR2X2L** – 3-Sided BRC Trumpet Spillout for 2x2 Exit (page J.29)

15 FIDT2X2L** – 1-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing (page J.30)

16 FRRF4FD2L** – 4x4 FiberRunner® to 2x2 Reducer Fitting (page J.23)

**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

HS2X2YL10NM

H2X2YL10

HC2YL10

Part Number	Description	Color
2x2 Hinged Channel		
HS2X2YL10NM	Used to carry the cables throughout the system. Accepts hinged cover HC2YL10. Use QuikLock™ Coupler FBC2X2YL to attach channel and/or fittings.	Yellow
2x2 Hinged Slotted Channel		
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
2x2 Hinged Snap-On Cover		
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
BEST SELLER 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
2x2 Four Way Cross Fitting			
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
2x2 Horizontal Tee Fitting			
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

FHDEC2X2LYL

FRA2X2LYL

FOV452X2LYL

FOVRA2X2LYL

FIV452X2LYL

FIVRA2X2LYL

Part Number	Description	Couplers Required	Color
2x2 End Cap Fitting			
FHDEC2X2LYL	Used for closing off open ends of the channel or fittings.	-	Yellow
2x2 Horizontal Right Angle Fitting			
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
2x2 Outside Vertical 45° Angle Fitting			
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
2x2 Outside Vertical Right Angle Fitting			
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
2x2 Inside Vertical 45° Angle Fitting			
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
2x2 Inside Vertical Right Angle Fitting			
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

FVTHD2X2LYL

FTR2X2LYL

Part Number	Description	Couplers Required	Color
2x2 Vertical Tee Spillout			
BEST SELLER 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
3-Sided BRC Trumpet Spillout for 2x2 Exit			
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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2x2 FiberRunner® System Spillouts (continued)

FIDT2X2LYL

FRSPJ2X2LYL

Part Number	Part Description	Couplers Required	Color
1-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing			
FIDT2X2LYL	Used to route cable into three separate 1.5" (3.8mm) diameter split corrugated tubing.	(1 pc.) FBC2X2LYL	Yellow
Spill-Over Junction Fitting with 2x2 Exit			
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

FRHD4KTYL

FZBA1.5X4

Part Number	Description	For Threaded Rod Size In.	Color
4x4 Hinged Duct Vertical Cable Manager Kit			
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
Low Profile Reducer 4x4 Reducer Fitting with 2x2 Exit			
FRLPR42LYL	Assembled into the 6x4 or 4x4 vertical tee allowing transition to a 2x2 channel with minimal space required.	-	Yellow
1-Port Spillout Side Exit to 1.5 Inch (38mm) Inside Diameter Corrugated Tubing			
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
Adjustable "Z" Bracket			
BEST SELLER FZBA1.5X4	Bracket used to offset a system from the mounting surface, adjustable from 1.5" (38mm) to 4 inches (101mm).	-	Black
Quick Mount Clips			
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
Existing Threaded Rod Brackets			
FTRBE12	Used for supporting the 2x2 and 4x4 systems from existing threaded rod installations.	0.5	-
Ladder Rack Bracket			
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.	-	-
4-Post Rack Bracket			
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
Two-Piece Ladder Rack Bracket for Attaching Threaded Rod to 1.5 inches - 2 inches Ladder Rack			
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	
New Threaded Rod Brackets			
FTRBN12	Used for supporting the 2x2 and 4x4 systems from new threaded rod installations.	0.5	-
Mounting Brackets			
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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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 In²	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 In²	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
Low Profile "Z" Bracket	
WG8BL10	8" Wide x 118.35" long pathway section used to carry cables horizontally throughout the system. Availble 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. Availble 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.

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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

WGSPL1218BL

WGINTSPLBL

WGESPL2430BL

Part Number	Description
WGSPL1218BL	Straight Splice connector quickly joins two (305mm) or 18" (457mm) wide Pathways together. Packaging contains 2 components needed to join two pathway sections.
WGSPL2430BL	Straight Splice connector quickly joins two 24" (610mm) or 30" (762mm) wide Pathways together. Packaging contains 4 components needed to join two pathway sections.
WGINTSPLBL	Intersection splice connector quickly joins Pathways at all intersections. Package contains 2 components needed to create one tee or right angle intersection.
WGESPL2430BL	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

WGBTMWFBL

WGSWF4BL

Part Number	Description
WGBTMWFBL	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.
WGSWF4BL	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.

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
Wyr-Grid® Trapeze Brackets	
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.
Wyr-Grid® Cantilever Brackets	
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.
Wyr-Grid® Wall Mount Termination Brackets	
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).

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

WG12FRTBBL

WG18FRTBBL

WGSKBL

Part Number	Description
Wyr-Grid® Mounting Brackets for FiberRunner® System	
WG12FRTBBL	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-Gri® Pathway. Adjustable 6 0.563" to 9.875" over the top surface of the Wyr-Grid® Pathway.
WG18FRTBBL	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.
WG24FRTBBL	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.
Wyr-Grid® Mounting Bracket for Strut	
WGSKBL	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

WGSW4BL

WGIBRC2BL

Part Number	Description
Wyr-Grid® Pathway Snap-On Sidewalls	
WGSW2BL	Wyr-Grid® 2" (50mm) high Snap-On Sidewalls can be attached anywhere along the pathway where needed to retain cables.
BEST SELLER **WGSW4BL**	Wyr-Grid® 4" (102mm) high Snap-On Sidewalls can be attached anywhere along the pathway where needed to retain cables.
WGSW6BL	Wyr-Grid® 6" (152mm) high Snap-On Sidewalls can be attached anywhere along the pathway where needed to retain cables.

Wyr-Grid® Pathway Intersection Bend Radius Controls

Part Number	Description
WGIBRC2BL	Wyr-Grid® Intersection Bend Radius 2", Black.
WGIBRC4BL	Wyr-Grid® Intersection Bend Radius 4", Black.
WGIBRC6BL	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	

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		

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

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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LD Raceway Roadmap

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C OCFC10IW-X – 1 Inch Bend Radius Outside Corner 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.²	.38 in.²	1.00 in.²

LDPH3	LDPH5	LDPH10
.17 in.²	.33 in.²	89 in.²

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.²)	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	Electic Ivory	6
LD5EI8-A			8
LD5IW10-A		Off White	10
LD5IW6-A			6
LD5IW8-A			8
LD5WH10-A		White	10
LD5WH6-A			6
LD5WH8-A			8
LD10EI6-A	LD10	Electic Ivory	6
LD10EI8-A			8
LD10IW10-A		Off White	10
LD10IW6-A			6
LD10IW8-A			8
LD10WH10-A		White	10
LD10WH6-A			6
LD10WH8-A			8

c UL us 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
Internal Area = .17 Sq. In.

LDPH5
Internal Area = .33 Sq. In.

LDPH10
Internal Area = .62 Sq. In.

LDPH3

LDPH5

LDPH10

Part Number	Profile	Color	Length
LDPH3IW6-A	LDPH3	Off White	6 feet
LDPH5IW8-A	LDPH5		8 feet
LDPH5WH8-A		White	
LDPH10IG8-A	LDPH10	International Gray	
LDPH10IW8-A		Off White	

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G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt
H. Power Management
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L. Part Number Index

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

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

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
Base	Cover		
T70BIW8	T70CIW8	8	International White
T70BIW10	T70CIW10	10	

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

T70RA

T70IC

T70T

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

AFR4BCBL6

AFR4JB2SBL

AFR4RABL

AFR4CCBL

AFR4ECBL

AFR4TBLGBL

AFR4WTRBL

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.		

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
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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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