
















Network Infrastructure
Enterprise Data Center Industrial



North America

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Panduit Research and Development: Driving Innovation



The Jack E. Caveney Innovation Center in Tinley Park, IL, accommodates more than 200 members of the Panduit Research and Development team. Named for one of the most prolific inventors in the industry and the founder of Panduit, the Innovation Center carries on the legacy that began more than 60 years ago. Throughout this period, Panduit has introduced thousands of problem-solving new products, achieved 2,000 patents globally and remains demonstrably committed to advancing state-of-the-art solutions.



As a 250,000-square-foot R&D facility, the Center contains 18 labs including a copper transmission lab, an anechoic chamber and a hands-on industrial automation lab to visualize, test, and architect converged solutions designed to benefit IT migration onto the factory floor. A world-class data center thermal laboratory is equipped with a 320kW capacity air handler for testing and validation of real-world scenarios.

The Innovation Center enables collaboration with partners, academia, industry consortiums, and standards bodies to investigate how Panduit technologies are best integrated into applications, helping to build superior products.

The World's Smallest Cat 6A Cable

Fit up to 40% more cable in your pathways with Vari-MaTriX Copper Cable, the industry's leading Cat 6A cabling system.

B.3



Designed with the M.I.C.E Environment in Mind

The NEMA Type 12 Rated MDC connects enterprise to the plant floor while turning standards to solutions.

E.8

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.

M.3 – M.6



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Panduit Copper Cabling System Standards Compliance Guide

Performance Level	ANSI/TIA	ISO/IEC	Supported Applications	Specified Bandwidth
Category 6A Unshielded	ANSI/TIA.568.2-D	ISO11801 Class Ea	10GBASE-T	500 MHz
Category 6A Shielded			5GBASE-T 2.5GBASE-T 1000BASE-T 100BASE-T 802.3 Power over Ethernet (PoE, PoE+, PoE++) HDBASE-T	
Category 6 Unshielded	ANSI/TIA.568.2-D	ISO11801 Class E	10GBASE-T (limited distances per TSB-155-A)	250 MHz
Category 6 Shielded			5GBASE-T (Low risk with bundled cables per TSB-5021) 2.5GBASE-T (Low risk with bundled cables per TSB-5021) 1000BASE-T 100BASE-T 802.3 Power over Ethernet (PoE, PoE+, PoE++) HDBASE-T	
Category 5e Unshielded	ANSI/TIA.568.2-D	ISO11801 Class D	5GBASE-T (High risk with bundled cables per TSB-5021)	100 MHz
Category 5e Shielded			2.5GBASE-T (High risk with bundled cables per TSB-5021) 1000BASE-T 100BASE-T 802.3 Power over Ethernet (PoE, PoE+, PoE++) HDBASE-T	

Panduit Copper Cabling System Selection Guide

System	Cable			Jack Modules	Field Term Plugs	Patch Cords	Populated Patch Panels	Zone Cords	Punchdown Systems
	Premium	Enhanced	Standard Compliant or Standard Compliant Plus						
Category 6A Unshielded	PUP6AV04** PUR6AV04**	PUP6AS04**	—	CJ6X88TG** CJLR6X88TG** CJUD6X88TG**	FP6X88MTG FPUD6X88MTG	UTP6A*** UTP28X**	DP246X88TGY DP486X88TGY	UZPP*** UZPR***	—
Category 6A Shielded	PUP6X04** PUR6X04**	—	PFP6X04** PFR6X04**	CJS6X88TGY CJSLR6X88TGY CJSUD6X88TGY	FPS6X88MTG	STP6X*** STP28X**	—	SAPP*** SAPR***	—
Category 6 Unshielded	PUP6504** PUR6504**	PUP6004** PUR6004**	PUP6C04** PUR6C04**	CJ688TG** CJLR688TG** CJUD688TG**	FP6X88MTG FPUD6X88MTG	UTPSP***Y UTP28SP**	DP24688TGY DP48688TGY	UPP*** UPR***	GP6™ PLUS
Category 6 Unshielded 28 AWG	—	—	PUP6C2804** PUR6C2804**	CJT688TG**	—	UTPSP***Y UTP28SP**	DP24688TGY DP48688TGY	UPP*** UPR***	—
Category 5e Unshielded	PUP5504** PUR5504**	—	PUP5C04** PUR5C04**	CJ5E88TG**	FP6X88MTG FPUD6X88MTG	UTPCH***Y UTP28CH**	DP24688TGY DP48688TGY	—	Pan-Punch®
Category 5e Shielded	—	—	PFP5504** PFR5504**	CJS5E88TGY	FPS6X88MTG	STPCH*B**	—	—	—

**Contact Customer Service for color options.
^Contact Customer Service for available lengths.

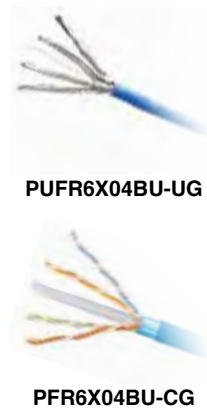
TX6A™ Copper Cable

- UTP 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 Category 6A Copper Cable



Part Number	Flame Rating	Performance Level	Barrier Tape	Cable Diameter In.	Max. UL Temperature °C	LP Rating	Min. Order Qty. (MOQ) Ft.	Min. Order Increment (MOI) Ft.
TX6A™ U/UTP Copper Cable								
PUP6AV04BU-G	Plenum (CMP)	Category 6A UTP Premium	Vari-MaTriX	.250	105	CMP-LP (0.7A)	9000	1000
PUR6AV04BU-G	Riser (CMR)	Category 6A UTP Premium		.260	75	CMR-LP (0.5A)	6000	
PUP6AS04BU-G	Plenum (CMP)	Category 6A Standard Compliant Plus	Continuous	.250	90	CMP-LP (0.6A)	9000	



TX6A™ Shielded Copper Cable								
PUP6X04BU-UG	Plenum (CMP)	Category 6A Shielded Premium	U/FTP	.290	90	–	5000	1000
PFP6X04BU-UG		Standard Compliant	F/UTP	.296	75	CMP-LP (0.7A)	9000	
PUP6X04BU-UG	Riser (CMR)	Category 6A Shielded Premium	U/FTP	.310		–	5000	
PFR6X04BU-CG		Standard Compliant	F/UTP	.284	CMR-LP (0.5A)	9000		

Part number reflects Blue cable. For other color options, please contact Customer Service. All minimum order increments (MOI) are 1000 ft.

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 on the following pages.

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	3.5	3
PSNEXT	5	5	5
PSACR-F	10	10	8
Return Loss	3	3	1
PSACR-N	6.5	6.5	6.5
PSANEXT	20	4	2
PSAACR-F	20	10	10

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Category 6 U/UTP Copper Cable

- Superior headroom performance provides margins above the industry standard
- Small diameter (0.140" for plenum) 28 AWG cable allows for improved pathway capacity, tighter bend radius and increased flexibility; 50m maximum channel length

Part Number	Flame Rating	Performance Level	Max. UL Temperature °C	LP Rating	Gauge/Channel Length	Packaging	Min. Order Qty. (MOQ) Ft.	Min. Order Increment (MO) Ft.
PUP6504BU-UY	Plenum (CMP)	Category 6 Premium	75	-	23 AWG/100m	Reel in a box	9000	1000
PUR6504BU-UY	Riser (CMR)							
PUP6004BU-W	Plenum (CMP)	Category 6 Enhanced	90	CMP-LP (0.5A)		Easy Payout Carton	12000	
PUP6004BU-WLP								
PUR6004BU-W	Riser (CMR)	75	-					
PUP6C04BU-U	Plenum (CMP)	Category 6 Standard Compliant Plus	90	CMP-LP (0.5A)				
PUP6C04BU-ULP								
PUR6C04BU-U	Riser (CMR)	Standard Compliant	75	-	28 AWG/50m	Reel in a Box	14000	
PUP6C2804BU-U	Plenum (CMP)							
PUR6C2804BU-U	Riser (CMR)							



Part number reflects Blue cable. For other color options, please contact Customer Service.

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 on the following pages.

Channel Headroom

Electrical Value	Category 6 Premium	Category 6 Enhanced	Category 6 Standard Compliant Plus
Insertion Loss	9%	5%	4%
NEXT	6	6	4
PSNEXT	7.5	7.5	6
PSACR-F	10	9	8
Return Loss	3	3	3
ACR-N	7	7	5
PSACR-N	9	9	7
ACR-F	8	7	6

Category 5e Copper Cable

- Superior headroom performance provides margins above the industry standard



PUP5504BU-UY



PUR5504BU-UY

Part Number	Flame Rating	Performance Level	Packaging	Min. Order Qty. (MOQ) Ft.	Min. Order Increment (MOI) Ft.
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Category 5e U/UTP Copper Cable

PUP5504BU-UY	Plenum (CMP)	Category 5e Premium	Easy Payout Carton	13000	1000
PUR5504BU-UY	Riser (CMR)				
PUP5C04BU-U	Plenum (CMP)	Standard Compliant		10000	
PUR5C04BU-U	Riser (CMR)				

Category 5e Shielded F/UTP Copper Cable

PF5504BU-UY	Plenum (CMP)	Standard Compliant	Reel	5000	1000
PFR5504BU-UY	Riser (CMR)				

Part number reflects Blue cable. For other color options, please contact Customer Service.

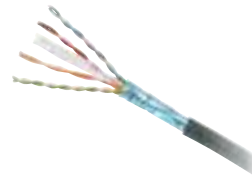
Panduit® Copper Cabling Systems utilizing Mini-Com® Connectivity Components are designed for optimum network performance, design flexibility and reliability to protect network investments well into the future. Each system denoted provides users with headroom assurance that will exceed the applicable 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 on the following pages.

Channel Headroom

Electrical Value	Category 5e Premium
Insertion Loss	5%
NEXT	6
PSNEXT	7.5
PSACR-F	6
Return Loss	2
ACR-N	7
PSACR-N	9
ACR-F	4

Outdoor Copper Cable

- Protects against environmental elements that can cause electrical performance failures
- Gel-filled construction prevents moisture migration in underground and wet applications
- Black in color



PFO6X04BL-CEG

Part Number	Performance Level	Construction	Packaging	Min. Order Quantity (MOQ)	Min. Order Increment (MOI)
PFO6X04BL-CEG	6A	F/UTP	Reel	6 reels	1 reel
PUO6C04BL-U	6	U/UTP	Easy Payout Carton	27000 Ft.	1000 Ft.

Multi-Pair Copper Cable



PUP5525IG-UY

Part Number	Flame Rating	Packaging	Minimum Order Quantity (MOQ) Ft.	Minimum Order Increment (MOI) Ft.
PUP5525IG-UY	Plenum (CMP)	Reel	1000	1000
PUR5525IG-UY	Riser (CMR)			

Part number reflects International Gray cable. For other color options, please contact Customer Service.

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Copper Patch Cords

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



UTP6ASD*
UTP28X*



STP28X*



UTP28SP*



UTP28SP8INBU

Part Number	Cable Type	Conductor Gauge AWG	Cable Diameter In. (mm)	Flammability Rating	Std. Pkg. Qty.
TX6A™ 10 Gig Patch Cords					
UTP28X*BU	Unshielded	28	0.185 (4.7)	CM; LSZH	1
UTP28X*BU-Q					25
UTP6ASD*BU		26	0.240 (6.1)	CM	1
UTP6ASD*BU-Q					25
UTP6A*BU		24	0.275 (7.0)	CM	1
UTP6A*BU-Q					25
STP28X*MBU	Shielded	28	0.185 (4.7)	CM; LSZH	1
STP28X*MBU-Q					25
STP6X*BU		26	0.240 (6.1)		1
STP6X*BU-Q					25
STP6C*MBU		0.252 (6.4)	1		
STP6C*MBU-Q			25		

TX6™ Patch Cords					
UTP28SP*BU	Unshielded	28	0.150 (3.8)	CM; LSZH	1
UTP28SP*BU-Q					25
UTPSP*BUY	24	0.235 (6.0)	CM	1	
UTPSP*BUY-Q				25	

TX5e™ Patch Cords					
UTP28CH*BU	Unshielded	28	0.149 (3.8)	CM; LSZH	1
UTP28CH*BU-Q					25
UTPCH*BUY	24	0.215 (5.5)	CM	1	
UTPCH*BUY-Q				25	

Part number reflects Blue patch cords. Other colors available, replace BU in part number with BL(Black), YL (Yellow), GY(Gray), GR(Green), RD(Red), OR (Orange), VL(Violet), no designation for Off-White.
 *Patch cords available in 6 In., 8 In., 1 to 50 Ft. lengths. For additional lengths refer to www.panduit.com.

Mini-Com® TX6A™, TX6™ PLUS and TX5e™ UTP and Shielded Jack Modules

- All jacks 100% tested to ensure NEXT and RL 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

UTP Jack Modules

Part Number	Jack Type	Performance Level	Termination Style	Std. Pkg. Qty.
CJ6X88TG**	Standard	Category 6A	TG-Style	1
CJ688TG**		Category 6		
CJ5E88TG**		Category 5e		
CJ6X88TG**-24		Category 6A		24
CJ688TG**-24		Category 6		
CJ5E88TG**-24		Category 5e		
CJ6X88TG**-C	Angled Left/Right	Category 6A		100
CJ688TG**-C		Category 6		
CJLR6X88TG**		Category 6A		
CJLR688TG**	Category 6			
CJLR6X88TG**-24	Category 6A	24		
CJLR688TG**-24	Category 6			
CJUD6X88TG**	Angled Up/Down		Category 6A	TG-Style
CJUD688TG**		Category 6		
CJH6X88TG**	Spring Shutter	Category 6A	1	
CJH688TG**		Category 6		
CJH5E88TG**		Category 5e		
CJT6X88TG**	28/30 AWG	Category 6A	1	
CJT688TG**		Category 6		
CJT5E88TG**		Category 5e		



Standard



Angled



Spring Shutter



28/30

**Colors available: IW (Off White), EI (Electric Ivory), IG (International Gray), AW (Arctic White), BL (Black), BU (Blue), GR (Green), RD (Red), OR (Orange), VL (Violet), YL (Yellow), WH (White).
Must be installed as part of complete TX6A™ UTP Copper Cabling System in order to achieve 10BASE-T certified performance.
For labeling and identification, see pages O.1 through O.18.

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Mini-Com® TX6A™, TX6™ PLUS and TX5e™ UTP and Shielded Jack Modules (continued)



Angled Wire Cap (UTP)



Left/Right Shielded Angled Wire Cap



Up/Down Shielded Angled Wire Cap

Wire Caps

Part Number	Part Type	Performance Level	Color	Termination Style	Std. Pkg. Qty.
CJLRCAPBU-X	Left/Right Angled Wire Cap	Category 6A	Blue	TG-Style	10
CJLRCAPIW-X		Category 6	Off White		
CJUDCAPBU-X	Up/Down Angled Wire Cap	Category 6A	Blue		
CJUDCAPIW-X		Category 6	Off White		
CJSLRCAPBU-X	Left/Right Shielded Angled Wire Cap	Category 6A	Blue		
CJSLRCAPIW-X		Category 6	Off White		
CJSUDCAPBU-X	Up/Down Shielded Angled Wire Cap	Category 6A	Blue		
CJSUDCAPIW-X		Category 6	Off White		

Mini-Com® TX6A™, TX6™ PLUS and TX5e™ Shielded Jack Modules

- All jacks 100% tested to ensure NEXT and RL 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



CJS6X88TGY-24



CJSH6X88TGY



CJST6X88TGY

Part Number	Jack Type	Performance Level	Color	Termination Style	Std. Pkg. Qty.
CJS6X88TGY	Standard	Category 6A	Black	TG-Style	1
CJS688TGY		Category 6			
CJS5E88TGY		Category 5e			
CJS6X88TGY-24		Category 6A			24
CJS688TGY-24		Category 6			
CJS5E88TGY-24		Category 5e			
CJSLR6X88TGY	Angled Left/Right	Category 6A	Blue		
CJSLR688TGY		Category 6	Off White		
CJSUD6X88TGY	Angled Up/Down	Category 6A	Blue		
CJSUD688TGY		Category 6	Off White		
CJSH6X88TGY	Spring Shutter	Category 6A	Black		1
CJSH6X88TGY		Category 6			
CJSH5E88TGY		Category 5e			
CJST6X88TGY	28/30 AWG	Category 6A			

Other colors available, add color suffix after "TG" and before "Y". BU (Blue), GR (Green), RD (Red), VL (Violet), YL (Yellow). Standard parts also available in WH (White).
 Shield grounding requires proper installation of shielded jack module, the use of shielded patch cords, and cable.
 All Metal Modular Patch Panels available on page B.18.
 Must be installed as part of a complete TX6A™ Copper Cabling System in order to achieve in 10GBASE-T certified performance.
 For labeling and identification, see pages O.1 through O.18.

Mini-Com® TX6A™, TX6™ PLUS and TX5e™ UTP Coupler Modules

- RJ45 8-position female to RJ45 8-position female pass-through module for easy connection of 6 and 8-position RJ45 patch cords
- 100% tested to ensure NEXT and RL performance
- Compatible with Mini-Com® Module Patch Panels and Faceplates; not compatible with surface mount box applications
- Also available as 24-port coupler patch panels, see page B.19



Coupler

Part Number	Performance Level	Color	Termination Style	Std. Pkg. Qty.
CC6X88BL	Category 6A	Black	RJ45	1
CC688BL	Category 6	Black		
CC5E88BL	Category 5e	Black		

Other colors available, replace BL with: BU (Blue), GR (Green), IG (International Gray), IW (Off White), OR (Orange), RD (Red), YL (Yellow). TX6™, TX6A™, TX5e™ UTP Patch Cords available on page B.6.

TX6A™ UTP and Shielded Field Term Plugs

- Simple-to-attach field terminable plugs in straight and angled 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



UTP Straight Field Term Plug



UTP Angled Field Term Plug



Shielded Straight Field Term Plug

Field Term Plugs

Part Number	Plug Type	Performance Level	Color	Termination Style	Std. Pkg. Qty.
FP6X88MTG	UTP Straight Field Term	Category 6A	Black	TG-Style	1
FP6X88MTG-X					10
FPUD6X88MTG	UTP Angled Field Term				1
FPUD6X88MTG-X					10
FPS6X88MTG	Shielded Straight Field Term		Silver		1
FPS6X88MTG-S					10

Module Termination Tools and Accessories



EGPT



Termination Tools

Part Number	Part Type	Performance Level	Color	Termination Style	Std. Pkg. Qty.
EGJT-1	Tool for Straight TG Jacks	All	Green	TG-Style	1
EGPT	Tool for Non-Straight or Angled Field Term Plug		Violet		
TGSJT	Tool for Angled TG Jacks		Ruby Red		
TGJT	High Volume Tool for Straight TG Jacks		Black		
FP6X88TC	Optional Field Test Cord	Category 6A	Red	RJ45	

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TX6A™, TX6™ PLUS and Category 5e 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



SP6X88



SP688



SP628



MP588



SPS6X88



MPS588



Modular Plug Tools

UTP Modular Plugs

Part Number	Performance Level	Wire Gauge AWG	Cable Diameter Range In. (mm)	Insulation Diameter Range In. (mm)	Std. Pkg. Qty.	
SP6X88-C	Category 6A	23-24	0.275–0.315 (6.99–8.00)	0.040–0.048 (1.02–1.22)	100	
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 6/6A	28	0.138–0.189 (3.50–4.80)	Max 0.027 (0.686)		
SP630-C		30	0.122–0.130 (3.10–3.30)	Max 0.021 (0.533)		
SP688-C	Category 6	23-24	0.225–0.250 (5.72–6.35)	0.036–0.042 (0.91–1.07)		
MP588-L	Category 5e	24	0.208–0.259 (5.28–6.58)	0.037–0.042 (0.94–1.07)		50
MP588-C						100
MP588-M						1000
MP528-C		28	0.138–0.162 (3.51–4.11)	0.023–0.027 (0.58–0.69)		100
MP528-M					1000	
MP530-C		30	0.122–0.130 (3.10–3.30)	Max 0.021 (0.533)	100	

Shielded Modular Plugs

Part Number	Performance Level	Wire Gauge AWG	Cable Diameter Range In. (mm)	Insulation Diameter Range In. (mm)	Std. Pkg. Qty.
SPS6X88-C	Category 6A	23-24	0.275–0.300 (6.99–7.62)	0.042–0.047 (1.07–1.19)	100
SPS688-C	Category 6	24	0.230–0.265 (5.84–6.73)	0.036–0.040 (0.91–1.02)	
MPS588-C	Category 5e	24-26	0.210–0.250 (5.33–6.35)	Max. 0.040 (1.02)	

For labeling and identification, see pages O.1 through O.18.

Modular Plug Accessories

Part Number	Performance Level	Part Type	Color	Std. Pkg. Qty.
WPT-8	All	Wire Prep Tool for Modular Plugs	Black	1
MPT5-8AS		Crimp Tool for Modular Plugs		
CSPT		Assembly Tool for 23-26 AWG Modular Plugs	Blue	
SGPT		Assembly Tool for 28/30 AWG Modular Plugs		

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	Panduit Multimode Systems				Panduit Singlemode Systems
				Signature Core™ OM4+/OM5+ 50/125µm	
	OM1 62.5/125µm	OM2 50/125µm	OM3/OM4 50/125µm		OS2 9/125µm
Technical Information	<ul style="list-style-type: none"> Exceeds domestic and international standards including TIA-492AAAA and IEC 60793-2-10 Category A1b Supports a diverse set of legacy applications including Ethernet, Fibre Channel, Fiber Distributed Data Interface (FDDI), Token Ring, Asynchronous Transfer Mode (ATM) and FICON (Fiber Connection) among others 	<ul style="list-style-type: none"> Exceed domestic and international standards for optical fiber, including TIA-492AAAB, TIA-492AAAC, TIA-492AAAD and IEC 60793-2-10 Support a diverse set of legacy and contemporary applications including Ethernet, Fiber Channel, Infiniband™, Fiber Distributed Data Interface (FDDI), Token Ring, Asynchronous Transfer Mode (ATM) and FICON (Fiber Connection) among others 	<ul style="list-style-type: none"> Meet or exceed numerous standards for optical fiber, including ITU-TG.652 (Categories A, B, C and D), IEC 60793-2-50, ISO 11801 OS2, and TIA-492-CAAB and Telcordia GR-20 Ensure performance over the entire 1250nm to 1625nm spectrum and are compatible with legacy fiber and the geometric properties contributing to minimizing splice loss and increasing splice yield 		

	Panduit Multimode Systems				Panduit Singlemode Systems
	OM1 62.5/125µm	OM2 50/125µm	OM3/OM4 50/125µm	Signature Core™ OM4+/OM5+ 50/125µm	OS2 9/125µm
Geometry					
Dimension					
Core Diameter	62.5µm ± 2.5µm	50.0µm ± 2.5µm	50.0µm ± 2.5µm	50.0µm ± 2.5µm	8.2µm typical
Cladding Diameter	125µm ± 1.0µm	125µm ± 1.0µm	125µm ± 1.0µm	125µm ± 1.0µm	125µm ± 0.7µm
Attenuation					
Wavelength					
850 nm	≤2.5dB/km	≤2.4dB/km	≤2.4dB/km	≤2.4dB/km	–
1300 nm	≤0.8dB/km	≤0.6dB/km	≤0.6dB/km	≤0.6dB/km	–
1310 nm	–	–	–	–	≤0.34dB/km
1550 nm	–	–	–	–	≤0.22dB/km
Environmental Properties					
Test					
Operating Temperature	-60°C to 85°C	-60°C to 85°C	-60°C to 85°C	-60°C to 85°C	-60°C to 85°C
Temperature Dependence (850 nm & 1300 nm from -60°C to +85°C)	≤0.1 dB/km	≤0.1 dB/km	≤0.1 dB/km	≤0.1 dB/km	≤0.1 dB/km

Panduit Fiber Cabling System Standards Compliance Guide

	Panduit Multimode Systems				Panduit Singlemode Systems
	OM1 62.5/125µm	OM2 50/125µm	OM3/OM4 50/125µm	Signature Core™ OM4+/OM5+ 50/125µm	OS2 9/125µm
Standards	IEEE 802.3j 10BASE-F 850nm	IEEE 802.3j 10BASE-F850nm	IEEE 802.3z 1GBASE-SX - 850nm	IEEE 802.3z 1GBASE-SX - 850nm	1GBASE-LX-1310nm
	IEEE 802.3u 100BASE-FX-1310nm	IEEE 802.3u 100BASE-FX850nm	IEEE 802.3ae 10GBASE-SR/SW - 850nm	IEEE 802.3ae 10GBASE-SR/SW - 850nm	IEEE 802.3ae: 10GBASE-LX4 - CWDM, 1310nm 10GBASE-LX - 1310nm
	IEEE 802.3z 1GBASE-SX - 850nm	IEEE 802.3z 1GBASE-SX - 850nm	10GBASE-LX4 - CWDM, 1310nm	10GBASE-LX4 - CWDM	10GBASE-EX - 1550nm
	IEEE 802.3ae 10GBASE-SR/SW - 850nm	IEEE 802.3ae 10GBASE-SR/SW - 850nm	IEEE 802.3ba 40GBASE-SR4 - 850nm	IEEE 802.3ba 40GBASE-SR4 - 850nm	IEEE 802.3ba 40GBASE-LR4 - CWDM, 1310nm
	10GBASE-LX4 - CWDM	10GBASE-LX4 - CWDM, 1310nm	100GBASE-SR10 - 850nm	100GBASE-SR10 - 850nm	100GBASE-LR4 - CWDM, 1310nm
	1G thru 8G Fibre Channel InfiniBand	1G thru 32G Fibre Channel InfiniBand	100GBASE-SR4 - 850nm	100GBASE-SR4 - 850nm	100GBASE-ER4 - CWDM, 1550nm
			IEEE 802.3by 25GBASE-SR - 850nm	IEEE 802.3by 25GBASE-SR - 850nm	IEEE 802.3by 25GBASE-LR - 1310nm 25GBASE-ER - 1550nm
			1G thru 128G Fibre Channel SWDM4 MSA	1G thru 128G Fibre Channel SWDM4 MSA	1G thru 128G Fibre Channel 40G PSM4 & 100G PSM4 MSAs
			InfiniBand	InfiniBand	CWDM4 & CWDM4-OC MSAs InfiniBand
					SONET OC-192 and OC-768
	Bandwidth (EMBc in Mz.km)	>220	>510	OM3>2000 OM4>4700	Both meet OM4 EMBc requirements and are wavelength dispersion compensated OM5 Sig. Core meets Modal Bandwidth requirements of OM4 at the 4 operating wavelengths of the SWDM MSA
Reach (Based on applicable standard listed above)	300m (1GBASE-SX) 33m (10GBASE-SR/SW)	600m (1GBASE-SX) 82m (10GBASE-SR/SW)	OM3 fiber: 300m (10GBASE-SR/SW)	OM4 Sig Core fiber: 550m (10GBASE-SR/SW)	5km (1GBASE-LX) 10km (10GBASE-LX4)
	300m (10GBASE-LX4)	240m (10GBASE-LX4)	300m (10GBASE-LX4)	300m (10GBASE-LX4)	10km (10GBASE-LX)
	70m (FC-400-M5-SN-I)	150m (FC-400-M5-SN-I)	100m (40GBASE-SR4 and 100GBASE-SR10)	200m (40GBASE-SR4 and 100GBASE-SR10)	40km (10GBASE-EX)
	20m (FC-800-M5-SN-I)	50m (FC-800-M5-SN-I)	70m (25GBASE-SR)	100m (25GBASE-SR)	10km (25GBASE-LX)
		35m (FC-1600-M5-SN-I)	150m (FC-800-M5E-SN-I)	125m (100GBASE-SR4)	40km (25GBASE-EX)
		20m (FC-3200-M5-SN-I)	100m (FC-1600-M5E-SN-I)	250m (FC-800-M5F-SN-I)	10km (40GBASE-LR4)
			70m (FC-3200-M5E-SN-I)	200m (FC-1600-M5F-SN-I)	10km (100GBASE-LR4)
			OM4 fiber: 400m (10GBASE-SR/SW)	150m (FC-3200-M5F-SN-I)	40km (100GBASE-ER4)
			300m (10GBASE-LX4)	95m (FC-12800-M5F-SN-I)	500m (PSM4 & CWDM4-OCP)
			150m (40GBASE-SR4 and 100GBASE-SR10)	100m (100G-SWDM4)	2km (PSM4 & CWDM4)
			190m (FC-800-M5F-SN-I)	350m (40G-SWDM4)	10km (FC-800-SM-LC-L)
			125m (FC-1600-M5F-SN-I)	OM5 Sig Core fiber: 145m (40GBASE-SR4 and 100GBASE-SR10)	1.4km (FC-800-SM-LC-I)
			100m (FC-3200-M5F-SN-I)	75m (100G-SWDM4)	10km (FC-1600-SM-LC-L)
			240m (40G-SWDM4)	240m (40G-SWDM4)	2km (FC-1600-SM-LZ-I)
				115m (25GBASE-SR)	10km (FC-3200-SM-LC-L)
				115m (100GBASE-SR4)	
				215m (FC-800-M5F-SN-I)	
				160m (FC-1600-M5F-SN-I)	
			115m (FC-3200-M5F-SN-I)		
			90m (FC-12800-M5F-SN-I)		
			100m (100G-SWDM4)		
			350m (40G-SWDM4)		

Multimode-based Fibre Channel (FC-x00-My-SN-I); x = 1, 2, 8, 16, 32, 128; y = 6(OM1), 5(OM2), 5E(OM3), 5F(OM4)
 Singlemode-based Fibre Channel (FC-x00-SM-Ly-I); x = 1, 2, 4, 8, 16, 32, 128; y = I, C, Z, A
 InfiniBand (18-xX-yDR-SX); x = 1, 4, 8, 12 lanes; y = S, D, Q (Single, Double, Quadruple data rates)

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Fiber Optic Adapters

- TIA/EIA-604 FOCIS-10, FOCIS-3, and FOCIS-2 compatible adapters
- Exceed ANSI/TIA-568.3-D requirements
- Adapter housing colors follow ANSI/TIA-568.3-D suggested color identification scheme
- Adapters have a FOCIS-10, FOCIS-3, and FOCIS-2 adapter interface at each end
- Accept FOCIS-10 compatible LC connectors, FOCIS-3 compatible SC connectors and FOCIS-2 compatible ST connectors



Part Number	Adapter Type	Color	Split Sleeve	Std. Pkg. Qty
FADSLCZAQ-L	Duplex LC	Aqua	Zirconia	50
FADSLCEI-L		Electric Ivory	Phos. Bronze	
FADSLCZBU-L		Blue	Zirconia	
FADSLCZAG-L	Duplex LC APC	Green	Zirconia	
FADSCZAQ-L	Duplex SC	Aqua	Zirconia	
FADSCCEI-L		Electric Ivory	Phos. Bronze	
FADSCZBU-L		Blue	Zirconia	
FADSCZAG-L	SC APC	Green	Zirconia	
FASSTZ-L	ST	–	Zirconia	

Mini-Com® Fiber Optic Adapter Modules

- TIA/EIA-604 FOCIS-10, FOCIS-3, and FOCIS-2 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
- Provide a FOCIS-10, FOCIS-3, and FOCIS-2 senior adapter interface at each end
- Accept FOCIS-10, FOCIS-3, and FOCIS-2 compatible senior LC connectors



Part Number	Adapter Type	Adapter Color	Split Sleeve	Module Color‡
CMDSAQLCZBL	Duplex LC	Aqua	Zirconia	Black
CMDSLCEI		Electric Ivory	Phos. Bronze	Electric Ivory
CMDSLCZBU		Blue	Zirconia	Blue
CMDAGLCZBL	Duplex LC APC	Green	Zirconia	Black
CMDAQSCZBL	Duplex SC	Aqua	Zirconia	Black
CMDEISCEI		Electric Ivory	Phos. Bronze	Electric Ivory
CMDBUSCZBU		Blue	Zirconia	Blue
CMDAGSCZBL	Duplex SC APC	Green	Zirconia	Black
CMSTZBU	ST	–	Zirconia	Blue

‡For other module colors, replace suffix BL (Black), EI (Electric Ivory), or BU (Blue) with EI (Electric Ivory), IW (Off White) or AW (Arctic White).

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

Part Number	Part Description	Cassette/ FAP Openings
HD Flex™ 4 Port Fiber Enclosures, Panels and Zero RU Bracket		
FLEX1U04	1 RU HD Flex™ 4-Port Enclosure	18
FLEX2U04	2 RU HD Flex™ 4-Port Enclosure	36
FLEX4U04	4 RU HD Flex™ 4-Port Enclosure	72
FLEX1UPN04	1 RU HD Flex™ 4-Port Panel	18
FLEX2UPN04	2 RU HD Flex™ 4-Port Panel	36
FLEX4UPN04	4 RU HD Flex™ 4-Port Panel	72
FLEX-0RUBR04	HD Flex™ 0 RU 4-Port Bracket and Cassette Holder	3
FLEX-0RUCH04	HD Flex™ 0 RU 4-Port Cassette Holder	–
HD Flex™ 6 Port Fiber Enclosures, Panels and Zero RU Bracket		
FLEX1U06**	1 RU HD Flex™ 6-Port Enclosure	12
FLEX2U06**	2 RU HD Flex™ 6-Port Enclosure	24
FLEX4U06**	4 RU HD Flex™ 6-Port Enclosure	48
FLEX1UPN06**	1 RU HD Flex™ 6-Port Panel	12
FLEX2UPN06**	2 RU HD Flex™ 6-Port Panel	24
FLEX4UPN06**	4 RU HD Flex™ 6-Port Panel	48
FLEX-0RUBR06**	HD Flex™ 0 RU 6-Port Bracket and Cassette Holder	2
FLEX-0RUCH06	HD Flex™ 0 RU 6-Port Cassette Holder	–
HD Flex™ 12 Port Fiber Enclosures, Panels and Zero RU Bracket		
FLEX1U12	1 RU HD Flex™ 12-Port Enclosure	6
FLEX2U12	2 RU HD Flex™ 12-Port Enclosure	12
FLEX4U12	4 RU HD Flex™ 12-Port Enclosure	24
FLEX1UPN12	1 RU HD Flex™ 12-Port Panel	6
FLEX2UPN12	2 RU HD Flex™ 12-Port Panel	12
FLEX4UPN12	4 RU HD Flex™ 12-Port Panel	24
FLEX-0RUBR12	HD Flex™ 0 RU 12-Port Bracket and Cassette Holder	1
FLEX-0RUCH12	HD Flex™ 0 RU 12-Port Cassette Holder	–

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

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FLEX4U04



FLEX1UPN04



FLEX1U06



FLEX1UPN06



FLEX-0RUBR06



FLEX1U12



FLEX1UPN12

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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 0.5dB per optimized cassette, 0.35dB for ultra cassette, and 0.75dB for standard singlemode cassette
- Return loss >26dB (multimode) and >55dB (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
- 100GBASE-SR10 cassettes are designed to split a single 100GBASE-SR10 (1x24F MPO) connector into (10) 10G Duplex LC channels
- 120GBASE-SR12 cassettes split a single 120G signal into (12) 10G Duplex LC channels



Part Number	Fiber Type	Fiber Count	Port Count	No. of MPOs	No. of Duplex LCs	Performance
HD Flex™ LC/MPO Cassettes						
FHCXO-12-10**	OM3	12	6	1x12f	6	Optimized
FHCXA-12-10**						Ultra
FHCZO-12-10**	OM4					Optimized
FHCZA-12-10**						Ultra
FHCSA-12-10**	OM4+					
FHCWA-12-10**	OM5+					
FHC9N-12-10**	OS2	Standard				
FHCXO-24-10**	OM3	24	12	2x12f	12	Optimized
FHCXA-24-10**						Ultra
FHCZO-24-10**	OM4					Optimized
FHCZA-24-10**						Ultra
FHCSA-24-10**	OM4+					
FHCWA-24-10**	OM5+					
FHC9N-24-10**	OS2	Standard				

**AS for Method A, AF for Modified Method A (pair flipped), BN for Method B, U for Universal.

HD Flex™ Fiber Optic Cassettes (continued)

Part Number	Fiber Type	Fiber Count	Port Count	No. of Rear MPOs	No. of Front Duplex LCs	Performance
HD Flex 4-to-1 Conversion Cassettes						
FHC39N-08-10AN	OM3	8	4	1x8f	4	Optimized
FHC3ZA-08H-10^A	OM4					Ultra
FHC3ZO-08H-10^A	OM4					Optimized
FHC39N-08H-10^A	OS2					Standard
FHC39N-08-10A	OM3	8	4	1x8f	4	Optimized
FHC3ZA-08-10^A	OM4					Ultra
FHC3ZO-08-10^A	OM4					Optimized
FHC39N-08-10^A	OS2					Standard
FHC39N-24H-10A	OM3	24	12	3x8f	12	Optimized
FHC3ZA-24H-10^A	OM4					Ultra
FHC3ZO-24H-10^A	OM4					Optimized
FHC39N-24H-10^A	OS2					Standard
100GBASE-SR10 and SR12 Breakout Cassettes						
FHCXO-20F-10A	OM3	20	10	1x20f	10	Optimized
FHCZO-20F-10A	OM4					Standard
FHC9N-20F-10A	OS2					Standard
FHCXO-24F-10A	OM3	24	12	1x24f	12	Optimized
FHCZO-24F-10A	OM4					Standard
FHC9N-24F-10A	OS2					Standard

^A for Method A, B for Method B/Universal.



FHC39N-08-10AN



FHC3ZO-08H-10B



FHC3ZO-24H-10A



FHCXO-24F-10A

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HD Flex™ Fiber Optic Cassettes (continued)



FH4ZU-48-NMNM B

HD Flex™ Dark Fiber Conversion Cassette

Part Number	Fiber Type	Fiber Count	Port Count	No. of Rear MPOs	No. of Front MPOs	Performance
FH4ZU-24-NMNM*	OM4	24	12	2x12f	3x8f	Ultra
FH4ZU-48-NMNM*		48		4x12f	6x8f	

*A for Method A, B for Method B.



FHSXO-12-10R

HD Flex™ Splice Cassettes

Part Number	Fiber Type	Fiber Count	Port Count	No. of Duplex LCs	Performance
FHSXN-12-10*	OM3	12	6	6	Standard
FHSXO-12-10*					Optimized
FHSZO-12-10*	OM4				
FHS9N-12-10*	OS2				Standard

**P for 250µm pigtails, R for Ribbon Pigtails.



FHCT-7ZUB



FHCT-5ZUC



FHCT-5ZUFB

HD Flex™ TAP Cassettes

Part Number	Fiber Type	Live (In) Ports	Live (Out) Ports	TAP Ports	Split Ratio
FHCT-5ZUB	OM4	1 MPO (Rear)	6 Duplex LC (Front)	1 MPO (Rear)	50/50
FHCT-7ZUB					70/30
FHCT-5ZUC	OM4	2 Duplex LC (Front)	2 Duplex LC (Front)	2 Duplex LC (Front)	50/50
FHCT-7ZUC					70/30
FHCT-5ZUFB	OM4 (BiDi TAP)	1 Duplex LC (Front)	1 Duplex LC (Front)		50/50

HD Flex™ Adapter Panel and Accessories



Part Number	Part 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.
FLEX-RAIL04EN	HD Flex™ 4 Port Enclosure Rail Kit, 1RU, 12 rails, 36 labels.
FLEX-RAIL06EN	HD Flex™ 6 Port Enclosure Rail Kit, 1RU, 6 rails, 12 labels.
FLEX-RAIL04PN	HD Flex™ 4-Port Panel Rail Kit, 1RU, 12 rails.
FLEX-RAIL06PN	HD Flex™ 6-Port Panel Rail Kit, 1RU, 6 rails.
FLEX-RCM1U**	1 RU HD Flex™ Rear Cable Manager.
FLEX-RCM4U**	4 RU HD Flex™ Rear Cable Manager.
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.
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.
FLEX-PLATE1UR	HD Flex™ Enclosure Trunk Slack Plate with Rear Cover – 1RU.
FLEX-PLATE2UR	HD Flex™ Enclosure Trunk Slack Plate with Rear Cover – 2RU.
FLEX-PLATE4UR	HD Flex™ Enclosure Trunk Slack Plate with Rear Cover – 4RU.
FLEX-PLATE1UPR	HD Flex™ Patch Panel Trunk Slack Plate with Rear Cover – 1RU.
FLEX-PLATE2UPR	HD Flex™ Patch Panel Trunk Slack Plate with Rear Cover – 2RU.
FLEX-PLATE4UPR	HD Flex™ Patch Panel Trunk Slack Plate with Rear Cover – 4RU.
FLEX-CLIP12	HD Flex™ Trunk Transition Clip (quantity 2); 12 position.
FLEX-CLIP18	HD Flex™ Trunk Transition Clip (quantity 2); 18 position.
FLEX-CM12S	HD Flex™ Universal Rear Cable Manager includes (2) FLEX-CLIP12.
FLEX-CM18S	HD Flex™ Universal Rear Cable Manager includes (4) FLEX-CLIP18.
FLEX-CM12C	HD Flex™ Universal Rear Cable Manager for PEV12, includes 2 FLEX-CLIP12.
FLEX-CM18C	HD Flex™ Universal Rear Cable Manager for PEV12, includes 2 FLEX-CLIP18.
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 1RU Universal Bracket 19" Kit (2 FLEX-CM-1UB and horizontal strain relief bar).
FLEX-OPTI-1RU	HD Flex™ Bracket Adapter for Opticom® Panels, houses 2 HD Flex cassettes.

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

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HD Fusion Splicing Enclosure and Accessories



FRMHSS-4RU

Part Number	Part Description
FRMHSS-4RU	HD fusion - fiber rack mount hyperscale splicing solution 4RU that can splice up to 576 single fibers and 864 ribbon fibers.
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.

Opticom® QuickNet™ Enclosures

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	Part Description	Cassette/FAP/FOSM Openings
FCE1U**	Rack mount fiber enclosure 1RU, with sliding/tilt drawers.	4
FCE1UA**	Rack mount fiber enclosure 1RU, open access.	
FCE1US	Rack mount fiber enclosure 1RU, with screws instead of rivets for ease of cover removal.	8
FCE2U**	Rack mount fiber enclosure 2RU, with sliding/tilt drawers.	
FCE4U**	Rack mount fiber enclosure 4RU, 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

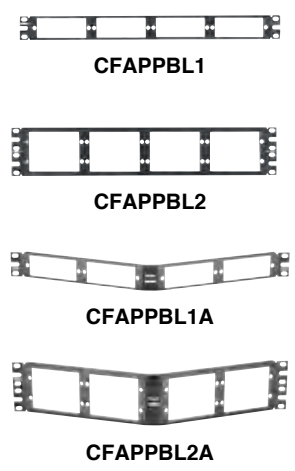
Part Number	Part Description	Cassette/FAP/FOSM Openings
FRME1U**	Rack mount fiber enclosure 1RU.	3
FRME2U**	Rack mount fiber enclosure 2RU.	6
FRME3**	Rack mount fiber enclosure 3RU.	9
FRME4**	Rack mount fiber enclosure 4RU.	12

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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
- Angled version holds Opticom® Fiber Adapter Panels and matches Mini-Com® Angled Patch Panel profile
- Use with Opticom® Rack Mount Fiber Trays (above) to protect fibers and terminations



Part Number	Part Description	Cassette/FAP/FMP Openings
Standard Fiber Adapter Patch Panels		
CFAPPBL1	Flat fiber patch panel. Holds up to four FAP or FMP adapter panels. 1RU.	4
CFAPPBL2	Flat fiber patch panel. Holds up to eight FAP or FMP adapter panels. 2RU.	8
Angled Fiber Adapter Patch Panels		
CFAPPBL1A	Angled fiber patch panel. Holds up to four FAP or FMP adapter panels. 1RU.	4
CFAPPBL2A	Angled fiber patch panel. Holds up to eight FAP or FMP adapter panels. 2RU.	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 0.75dB for standard cassette, 0.5dB for optimized cassette, and 0.35dB for ultra cassette
- Return loss >26dB (multimode) and >55dB (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

12 Fiber LC Cassettes



Part Number	Fiber Type	Fiber Count	Port Count	No. of MPOs	No. of Duplex LCs	Performance
FC26N-12-10**	OM1	12	6	1x12f	6	Standard
FC2XN-12-10**	OM3					Optimized
FC2XO-12-10**						Standard
FC2ZN-12-10**	OM4					Optimized
FC2ZO-12-10**						Ultra
FC2SA-12-10**	OM4+					Standard
FC2WA-12-10**	OM5+					
FC29N-12-10**	OS2					

**AS for Method A, AF for Modified Method A (pair flipped), B1 for Method B end 1 and B2 for Method B end 2, U for Universal.

Opticom® QuickNet™ MPO Fiber Optic Cassettes (continued)



FC2XN-24-10AS



FC29N-24-10AS



FC2XN-12-03AS



FC3ZO-16-10A



FC4ZU-24-NMNMA

Part Number	Fiber Type	Fiber Count	Port Count	No. of MPOs	No. of Duplex LCs	Performance
24 Fiber LC Cassettes						
FC26N-24-10**	OM1	24	12	2x12f	12	Standard
FC2XN-24-10**	OM3					Optimized
FC2XO-24-10**						Standard
FC2ZN-24-10**	OM4					Standard
FC2ZO-24-10**						Optimized
FC2SA-24-10**	OM4+					Ultra
FC2WA-24-10**	OM5+					
FC29N-24-10**	OS2					

**AS for Method A, AF for Modified Method A (pair flipped), B1 for Method B end 1 and B2 for Method B end 2, U for Universal.

Part Number	Fiber Type	Fiber Count	Port Count	No. of Rear MPOs	No. of Front MPOs	Performance
12 Fiber SC Cassettes						
FC26N-12-03**	OM1	12	6	1x12f	6	Standard
FC2XN-12-03**	OM3					Optimized
FC2XO-12-03**						Standard
FC2ZN-12-03**	OM4					Optimized
FC2ZO-12-03**						Standard
FC29N-12-03**	OS2					Standard

**AS for Method A, AF for Modified Method A (pair flipped).

Part Number	Fiber Type	Fiber Count	Port Count	No. of Rear MPOs	No. of Front MPOs	Performance
Opticom® 4-to-1 Conversion Cassettes						
FC3XN-16-10*	OM3	16	8	2x8f	8	Standard
FC3XO-16-10*						Optimized
FC3ZN-16-10*	OM4					Standard
FC3ZO-16-10*						Optimized
FC39N-16-10A	OS2					Standard

*A for Method A, B for Method B/Universal.

Part Number	Fiber Type	Fiber Count	Port Count	No. of Rear MPOs	No. of Front MPOs	Performance
Opticom® Dark Fiber Conversion Cassettes						
FC4ZU-24-NMNM*	OM4	24	3	2x12f	3x8f	Ultra
FC4ZU-48-NMNM*		48	6	4x12f	6x8f	

*A for Method A, B for Method B.

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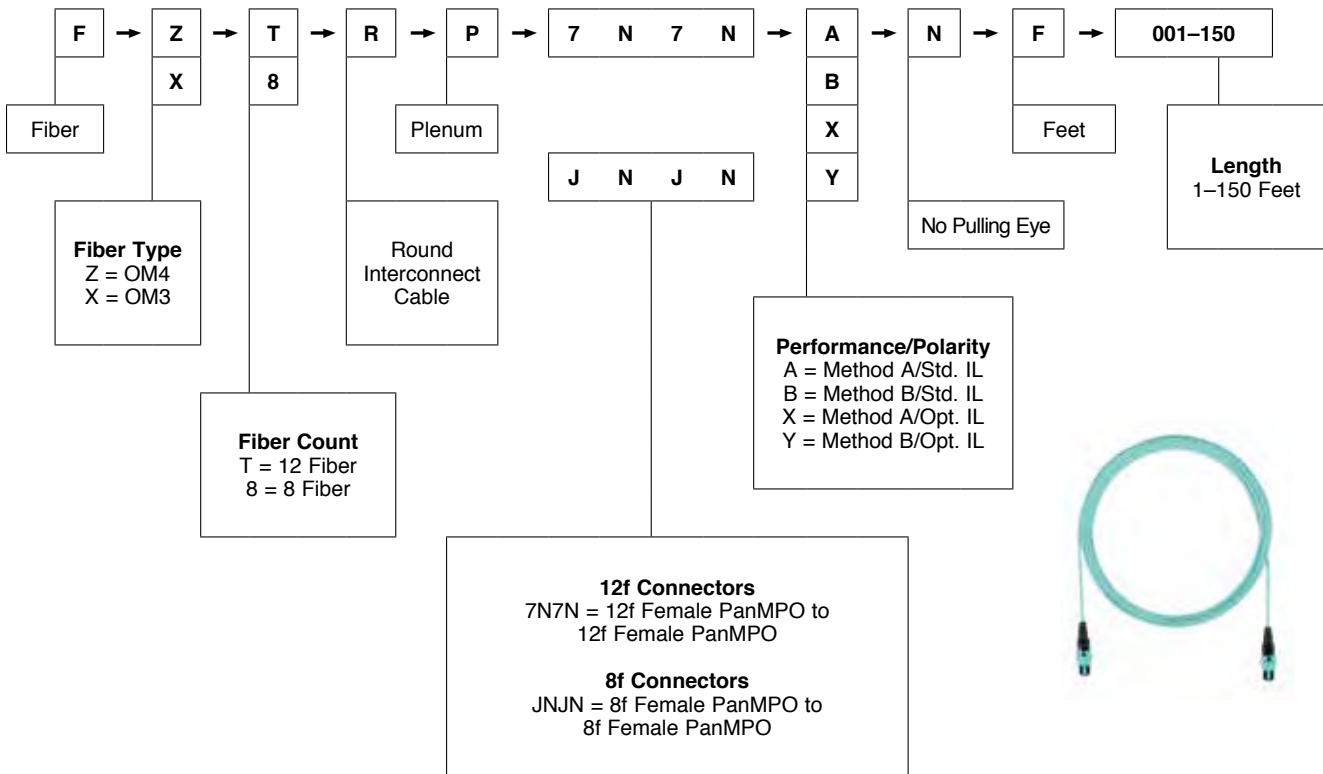
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Fiber Optic Interconnect Assemblies

- 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

Multimode Interconnects

8 and 12 Fiber Multimode Interconnects



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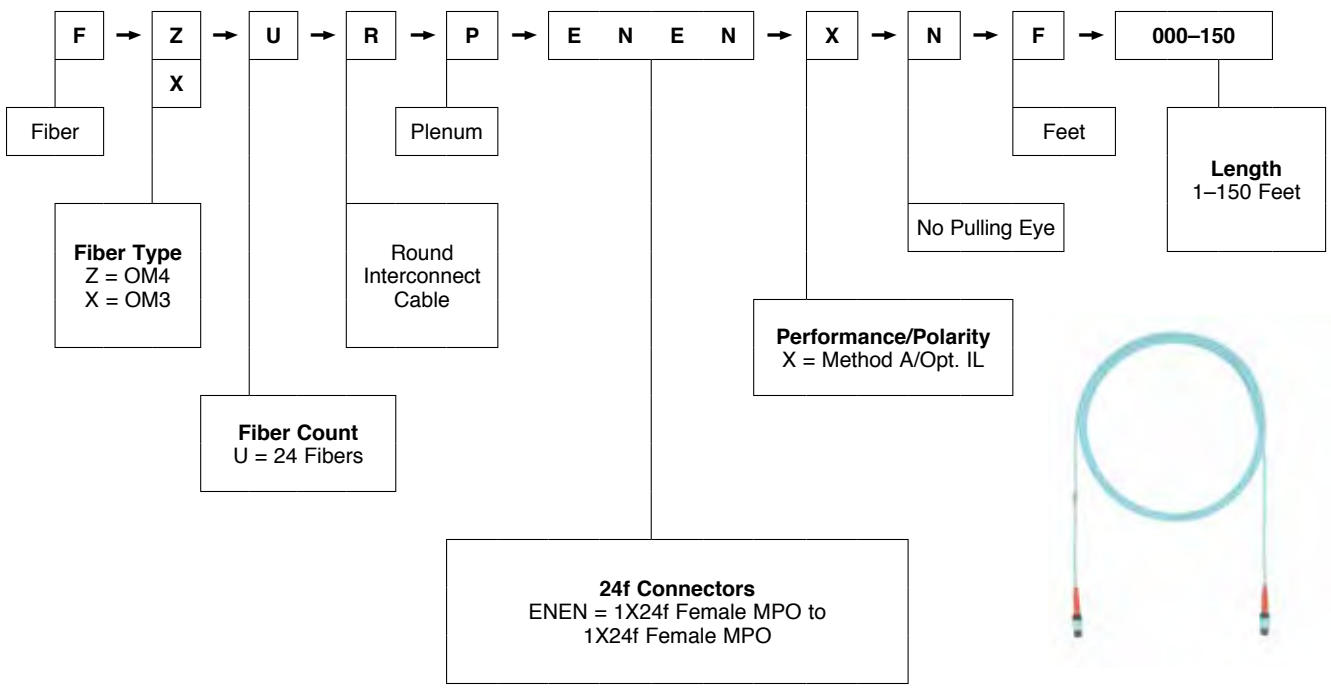
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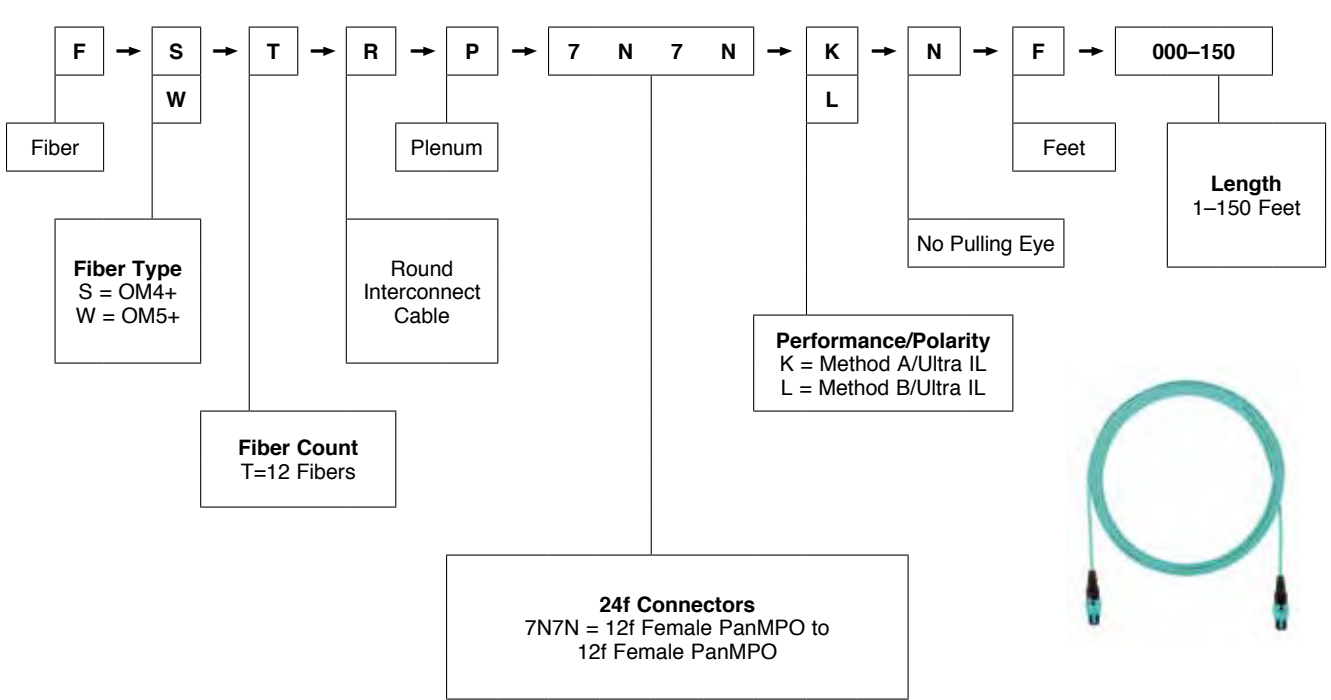
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Fiber Optic Interconnect Assemblies (continued)

24 Fiber Multimode Interconnects



12 Fiber Signature Core™ Interconnects

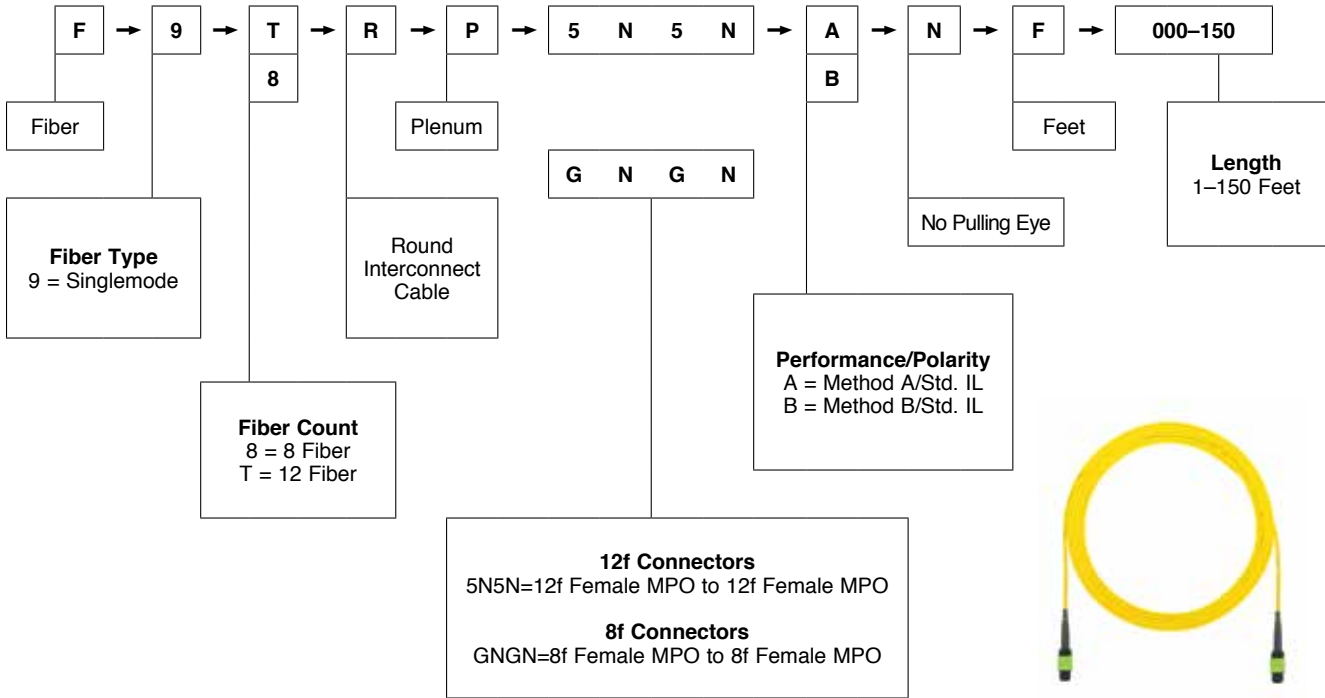


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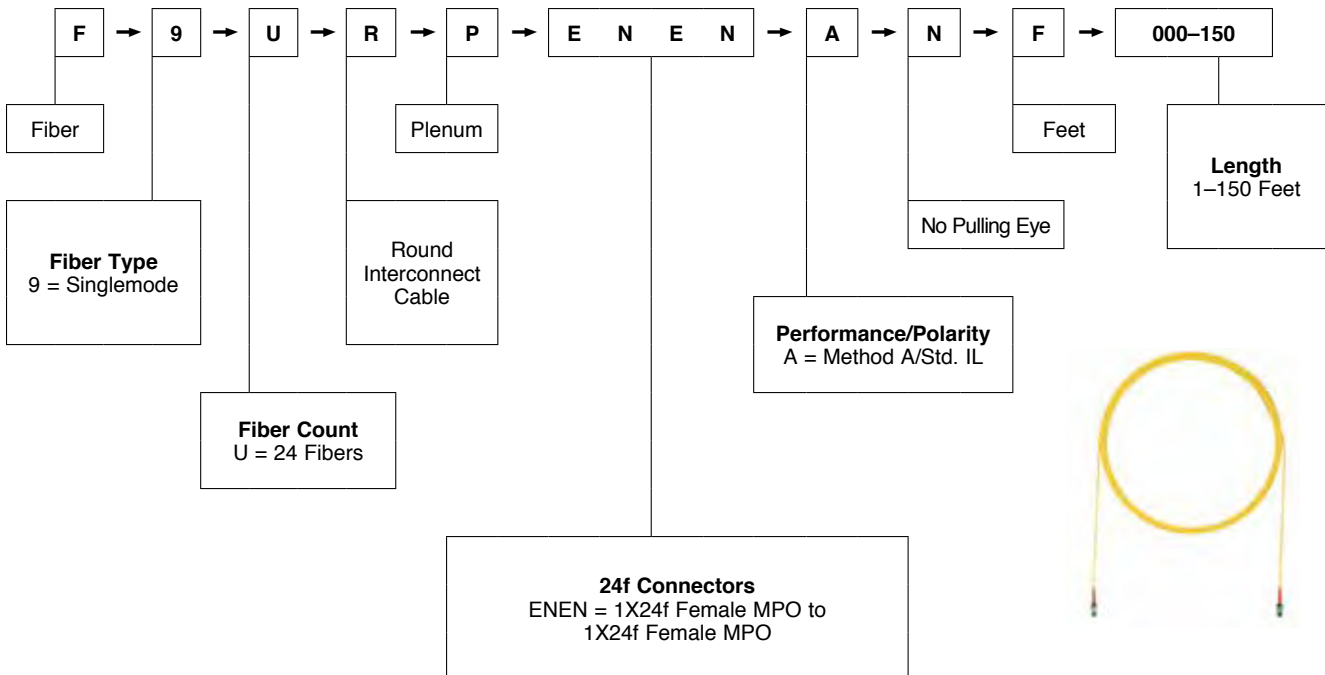
Fiber Optic Interconnect Assemblies (continued)

Singlemode Interconnects

8 and 12 Fiber Singlemode Interconnects



24 Fiber Singlemode Interconnects



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

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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 include a raised rail design

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CFPL1IWY



CFPL2IWY



CFPL3IWY



CFPL4IWY



CFPL6IWY



CFPSL2IWY



CFPSL4IWY



CFP1IW



CFP2IW



CFP4IW



CFPE1IWY



CFPE2IWY



CFPE4IWY



CFPE6IWY

Part Number	Ports	Style	Identification	Icon slots	Std. Pkg. Qty.
-------------	-------	-------	----------------	------------	----------------

Classic Series

CFPL1IWY	1	Flat	Label Pocket	No	1
CFPL2IWY	2				
CFPL3IWY	3				
CFPL4IWY	4				
CFPL6IWY	6				
CFPSL2IWY	2				
CFPSL4IWY	4				
CFP1IW	1	Flat	Adhesive	No	
CFP2IW	2				
CFP4IW	4				

Executive Series

CFPE1IWY	1	Flat	Label Pocket	No	1
CFPE2IWY	2				
CFPE4IWY	4				
CFPE6IWY	6				

For other colors, replace IW (Off White) with EI (Electric Ivory), or WH (White).

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Faceplate Frames and Mini-Com® Inserts

- Single and double gang faceplate frames
- Inserts accept Mini-Com® Modules and are front releasable
- Allows custom installations



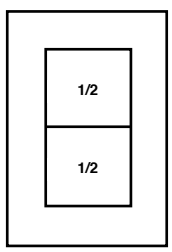
CBIW CBEIWY



CBIW-2G CBEIW-2GY



CHS2IW-X CHS2SIW-X CHLS2SIW-X CHB2IW-X CHS1SIW-X CHF2IW-X CHSRE2IW-X



Accepts two 1/2 inserts in a single gang frame.
Accepts four 1/2 inserts in a double gang frame.

Faceplate Frames

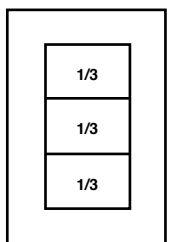
Part Number	Size	Style	Identification
CBIW	Single Gang	Classic	Adhesive
CBIW-2G	Double Gang		
CBEIWY	Single Gang	Executive	Label Pocket
CBEIW-2GY	Double Gang		

1/2 Size Inserts

Part Number	Ports	Style	Identification
CHS2IW-X	2	Sloped	Adhesive
CHF2IW-X		Flat	
CHS2SIW-X		Sloped Shuttered	Label Pocket
CHLS2SIW-X			
CHB2IW-X	-	Blank	Adhesive
CHSRE2IW-X	2	Sloped Recessed	



CHF2MIW-X CHB2MIW-X CHR3WYRIW CHD15HDCIWY CHD15HDSCIWY



Accepts three 1/3 inserts in a single gang frame.
Accepts three 1/3 inserts in a double gang frame.

1/3 Size Inserts

Part Number	Ports	Style
CHF2MIW-X	2	Flat
CHF1MIW-X	1	
CHB2MIW-X	-	Blank
CHR3WYRIW		RCA Coupler
CHD15HDCIWY		VGA 15 Pin HD Coupler
CHD15HDSCIWY		VGA 15 Pin HD Screw Down

For other colors, replace IW (Off White) with EI(Electric Ivory,) or WH (White).

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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



MDC79D and MDC79



MDC82NN

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
MDC79D	Dynamic, single hinge perforated front door, split perforated rear doors, split side panels (2), 42 RU, network cabling, patch panels, cable management, grounding, casters, shock pallet and ramp. Color Black. Dimensions: 79.8" H x 27.6" W x 48.0" D (2026mm x 700mm x 1200mm).	1	—
MDC79	Single hinge perforated front door, split perforated rear doors, split side panels (2), 42 RU, network cabling, patch panels, cable management, grounding and casters. Color Black. Dimensions: 79.8" H x 27.6" W x 48.0" D (2026mm x 700mm x 1200mm).		
MDC82NN	NEMA Type 12, IP55, single hinge front door with windowed glass, single hinge rear door, solid side panels (2), 42 RU, network cabling, patch panels, cable management, grounding, and casters. Color Light Gray. Dimensions: 78.7" H x 27.6" W x 47.2" D (2000mm x 700mm x 1200mm).		
MDC82NS	NEMA Type 12, IP55, single hinge front door with windowed glass, single hinge rear door, solid side panel (1), side panel with cutout for 12k BTU AC (1), 42 RU, network cabling, patch panels, cable management, grounding, and casters. Color Light Gray. Dimensions: 78.7" H x 27.6" W x 47.2" D (2000mm x 700mm x 1200mm).		
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), 42 RU, network cabling, patch panels, cable management, grounding, and casters. Color Light Gray. Dimensions: 78.7" H x 27.6" W x 47.2" D (2000mm x 700mm x 1200mm).		

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



UPS00100DC



UPS003LSM

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
UPS00100DC	Uninterruptible power supply (UPS), 100W; no-battery, maintenance-free with remote management; 24-28 VDC in/out; DIN rail mount.	1	—
UPS003LSM	UPS load sense module; optional accessory for use in dual, redundant power supply configurations to monitor load on primary supply.		

*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
- Gland plate allows quick and easy access to machine ingress points into enclosure
- 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



Z23U

Part Number	Enclosure Material	Downlink Port Connectivity	Included Accessories	Power Infrastructure	Std. Pkg. Qty.	Std. Ctn. Qty.
24" x 36" Universal Network Zone; for Two Industrial Switches						
Z23U-S25	Mild Steel	Category 6 UTP	Sixteen Copper Patch Cords and Jacks, Six LC Adapters, Four LC OM3 Patch Cords	Redundant Power Supplies with One Maintenance-Free UPS	1	-
Z23U-S25S		Category 6A STP				
Z23U-S24		Category 6 UTP		Redundant Power Supplies		
Z23U-S24S		Category 6A STP				
Z23U-S26		Category 6 UTP		Redundant Power Supplies with Battery UPS and PoE		
Z23U-S26S		Category 6A STP				
Z23U-625	316 Stainless Steel	Category 6 UTP		Redundant Power Supplies with 2 Maintenance-Free UPSs		
Z23U-625S		Category 6A STP				
Z23U-624		Category 6 UTP		Redundant Power Supplies		
Z23U-624S		Category 6A STP				
Z23U-626		Category 6 UTP		Redundant Power Supplies with Battery UPS and PoE		
Z23U-626S		Category 6A STP				



Z22U

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	1	-
Z22U-S15S		Category 6A STP				
Z22U-S14		Category 6 UTP		Redundant Power Supplies		
Z22U-S14S		Category 6A STP				
Z22U-S16		Category 6 UTP		Redundant Power Supplies with Battery UPS and PoE		
Z22U-S16S		Category 6A STP				
Z22U-615	316 Stainless Steel	Category 6 UTP		Redundant Power Supplies with One Maintenance-Free UPS		
Z22U-615S		Category 6A STP				
Z22U-614		Category 6 UTP		Redundant Power Supplies		
Z22U-614S		Category 6A STP				
Z22U-616		Category 6 UTP		Redundant Power Supplies with Battery UPS and PoE		
Z22U-616S		Category 6A STP				

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Z23C-S



Z22C-S



Z11C-S



ZFLEX1



ZFLEX2



PZNDVK



PZNF2

Part Number	Enclosure Material	Downlink Port Connectivity	Included Accessories	Power Infrastructure	Std. Pkg. Qty.	Std. Ctn. Qty.
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	—	1	—
Z23C-SS		Category 6A STP				
Z23C-6	316 Stainless Steel	Category 6 UTP				
Z23C-6S		Category 6A STP				
24" x 24" Pre-Configured Network Zone; for Two Industrial Switches						
Z22C-S	Mild Steel	Category 6 UTP	Eight Copper Patch Cords and Jacks, Six LC Adapters, Two LC OM3 Patch Cords	—	1	—
Z22C-SS		Category 6A STP				
Z22C-6	316 Stainless Steel	Category 6 UTP				
Z22C-6S		Category 6A STP				
12" x 14" Pre-Configured Network Zone; for One Industrial Switch						
Z11C-S	Mild Steel	—	—	—	1	—
Z11C-6	316 Stainless Steel	—	—	—	—	—

HD Flex Cassette Accessories for Network Zone Systems						
Part Number	Part Description				Std. Pkg. Qty.	Std. Ctn. Qty.
ZFLEX1	Mounting bracket for one 6-port fiber cassette in network zone systems Z22X-X and Z23X-X.				1	—
ZFLEX2	Mounting bracket for two 6-port fiber cassettes in network zone systems Z22X-X and Z23X-X.				—	—

Enclosure Accessories						
PZNDVK	NEMA 4X drain and vent kit.				1	—
PZNF1	NEMA 4X rated compression fitting, ideal for cable diameters of .115 to .250 (2.82mm to 6.35mm).					
PZNF2	NEMA 4X rated compression fitting, ideal for cable diameters of .230 to .395 (5.84mm to 10.03mm).					
PZNF3	NEMA 4X rated compression fitting, ideal for cable diameters of .170 to .450 (4.32mm to 11.43mm).					

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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

Pre-installed with: front and rear rack angles, fiber tray, 48-port patch panel(s), cable management, grounding, fiber spools, back panel(s), (2) ESD ports, cage nuts, labeling for cable routing, strain relief bars; includes ESD wrist strap, (1) hook and loop, (1) grounding cable, mounting hardware, conduit schedule and ingress template, installation guide.



ZDF48-**



ZDF242430

Part Number	Enclosure Material	Included Accessories	Power Infrastructure	Std. Pkg. Qty.	Std. Ctn. Qty.
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26U Industrial Distribution Frame for Two Access and Two Distribution Switches

Part Number	Enclosure Material	Included Accessories	Power Infrastructure	Std. Pkg. Qty.	Std. Ctn. Qty.
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	1	—
ZDF48-EA			—		
ZDF48-6RA	316 Stainless Steel		Two Duplex Power Receptacles and Four Power Cables		
ZDF48-6EA			—		

12U Industrial Distribution Frame for Two Access or Two Distribution Switches

Part Number	Enclosure Material	Included Accessories	Power Infrastructure	Std. Pkg. Qty.	Std. Ctn. Qty.
ZDF242430	Mild Steel	Two 48-Port Patch Panels, Fiber Tray, Fiber Spools, Back Panels, 10" DIN Rail, 30" Length of Duct	—	1	—
ZDF242430-6	316 Stainless Steel				

Wireless 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



PZNWE14

Part Number	Connectivity Kit	External Dimensions	Internal Dimensions	Std. Pkg. Qty.	Std. Ctn. Qty.
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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)	1	—
PZNWE12S	Shielded				

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)	1	—
PZNWE14S	Shielded				

Shielded connectivity kit, NEMA 4X rated fittings, and NEMA 4X drain and vent kit available, refer to www.panduit.com.

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A. Featured Products

Faceplate Frames and Inserts

- Faceplate frames allow customizable solutions
- Combine Mini-Com® and NetKey® Modules in a single faceplate through frame inserts

B. Copper Systems

C. Fiber Systems



D. Faceplates, Frames & Surface Mount Boxes

Part Number	Part Description
CBIW	Single gang faceplate frame.
CBIW-2G	Double gang faceplate frame.
CHF2MIW-X	Two module 1/3 insert for Mini-Com® Modules.
NKHF2MIW-X	Two module 1/3 insert for NetKey® Modules.
CHBHIW	Hooded insert.

For other colors, replace IW (Off White) with BL (Black), IG (International Gray), EI (Electric Ivory), or WH (White).

E. Industrial Networks

F. Audio Video Systems

G. Keystone Cabling Systems

H. Zone Cabling

GFCI Faceplates and Inserts



Part Number	Part Description
CFGBIW	Brush insert, off white.
CPGIW	Single gang rectangular faceplate.
CPGIW-2G	Double gang rectangular faceplate.
CFG4IW	Mini-Com® Four Module Rectangular Adapter.
CFG2IW	Mini-Com® Two Module Rectangular Adapter.
NK4RMFIW	NetKey® Four Module Rectangular Adapter.
NK2RMFIW	NetKey® Two Module Rectangular Adapter.

For other colors, replace IW (Off White) with BL (Black), IG (International Gray), EI (Electric Ivory) or WH (White).

L. Cabinets & Rack Systems

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AV Modules



Part Number	Part Description	Footprint	Specification
CMBIW-X	Blank module.	Mini-Com®	–
CMHDMIW	2-position HDMI module.		HDMI 2.0
CMUSBAAIW	USB module.		USB 2.0
CM35MSCIWY	3.5 stereo coupler.		–
CM35MSSIW	Solder Type 3.5 stereo connector.		–
CMFIW	F Type coupler.		3 GHz
CMFSRIWY	Self-terminating F Type module.		2 GHz
CMD15HDIWAY	2-position VGA module, 15 pin with circuit board to be terminated on site.	Insert	–
CHD15HDCIWY	1/3 insert 15 pin VGA connector module.		–
NKBMIW-X	Blank module.	Keystone	–
NKHDMIW	1-position HDMI module.		HDMI 2.0
NKUSBAAIW	USB module.		USB 2.0
NK35MSCIW	3.5 stereo coupler.		–
NKFIW	F Type coupler.		3 GHz

For other colors, replace IW (Off White) with BL (Black), WH (White), EI (Electric Ivory), IG (International Gray), or AW (Arctic White).

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HDBaseT Extenders

- HDBaseT transmitters and receivers can be mixed and matched
- Transmits a 4K video signal up to 40 meters and a 1080p video signal up to 70 meters
- Ideal for small conference rooms and classrooms
- Can be used with Category 6 or Category 6A cable



Part Number	Part Description
CMHDBTBTX	HDBaseT slim line transmitter box.
CMHDBTBRX	HDBaseT slim line receiver box.
CMHDBTWPTX	HDBaseT wallplate transmitter with 2 HDMI inputs, 1 VGA input and autoswitching feature.
CMHDBTWRX	HDBaseT slim line receiver box with audio de embedding.

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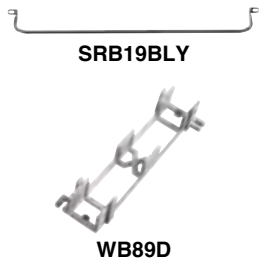
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Accessories

- 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



Part Number	Type	Style	Color	Std. Pkg. Qty.	
SRB19D5BL	Strain Relief Bar	Deep	Black	1	
SRB19BLY		Extended			
SRB19D7BL		Deep			
CPAF2BLY	Filler Panel	Angled			White
CPAF1BLY					
CPATCBL	Transitional Cover				
SRBBRKT	Mounting Bracket	Quick Release			
WB89D	Bracket	89D			

NetKey® Fiber Enclosures

- Factory configured with 6, 12 or 24 duplex LC or SC adapters for fast and easy installation
- Slide-out drawer slides forward a full 300mm for service access to all fiber terminations, connections, and/or splices
- Supports both field termination or fusion splicing with appropriate slack storage and cable management provisions
- Simple two-piece, all-metal body construction for easy and economical installation with no loose components to misplace; improved protection over plastic fiber drawers



Part Number	Adapter Type	Fiber Type	Adapter Color	Number of Adapters*
NKFD1W6AQDSC	SC	Multimode	Aqua	6 or 12
NKFD1W6BLDSC			Black	
NKFD1W6EIDSC			Electric Ivory	
NKFD1W6BUDSCZ		Singlemode	Blue	
NKFD1W12AQDLC	LC	Multimode	Aqua	12 or 24
NKFD1W12BLDLC			Black	
NKFD1W12EIDLC			Electric Ivory	
NKFD1W12BUDLCZ		Singlemode	Blue	

Replace the 6 (for SC) or 12 (for LC) with 12 or 24 in the part number for additional adapter densities.

NetKey® Fiber Optic Adapters



Part Number	Adapter Type	Fiber Type
NKDLCMIW	LC	Multimode
NKDLCMZIW		Singlemode
NKSCMIW	SC	Multimode
NKSCMZIW		Singlemode
NKSTMIW	ST	Multimode

For other colors, replace IW (Off White) with BL (Black), EI (Electric Ivory), IG (International Gray), or WH (White).

NetKey® Fiber Patch Cords and Pigtails

- Compliant with ANSI/TIA 568-C.3-1 and ISO/IEC 11801, TIA-604-5 (FOCIS-5), and UL 1666 (OFNR) flame rating
- Patch cords and pigtails include OM1, OM3, OM4 or OS2 fiber in 900µm tight-buffered fiber, 1.6mm, 2.0mm or 3.0mm duplex zipcord jacketed cable
- 100% performance tested assures that patch cords and pigtails are standard compliant, Riser rated jacket meets UL 1666 (OFNR) flame rating for standard compliant safety
- Q.C. identification label quality control reference provides lifetime traceability of test data



Part Number Example	NK	FP	X	2	E	R	L	L	S	M	001
	1	2	3	4	5	6	7	8	9	10	11

- NK**
NetKey
- FP**
Fiber Patch Cord
- X**
6 = OM1
X = OM3
Z = OM4
9 = OS2
- 2**
2 = Duplex
- E**
E = 1.6mm
2 = 2.0mm
3 = 3.0mm
- R**
R = Riser
L = LSZH
- L**
L = LC
S = SC
2 = ST
- L**
L = LC
S = SC
2 = ST
- S**
S = Standard
- M**
M = Meter
- 001**
Length

OM3, OM4, and OS2 pigtails available in 1m and 2m lengths. All other only available in 1m.

Part Number Example	NK	FP	X	1	B	N	1	N	S	N	001
	1	2	3	4	5	6	7	8	9	10	11

- NK**
NetKey
- FP**
Fiber Patch Cord
- X**
6 = OM1
5 = OM2
X = OM3
Z = OM4
9 = OS2
- 1**
1 = Simplex
- B**
B = 900µm
- N**
N = N/A
- 1**
1 = LC
2 = ST
3 = SC
- N**
N = N/A
- N**
N = N/A
K = 12pc kit
- 001**
Length
- N**
N = N/A

OM3, OM4, and OS2 pigtails available in 1m and 2m lengths. All others only available in 1m.

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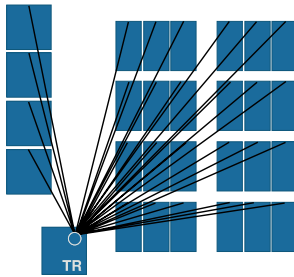
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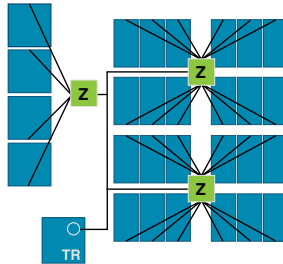
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Traditional Cable Deployment

Traditional cable deployment is difficult to manage. Moves, adds and changes can be challenging in this typical cable environment. Longer cable lengths are needed which add to additional cost.



Panduit Zone Cabling System

Panduit Zone Cabling Systems are TIA-568, 569, and 942 compliant and provide accessibility and flexibility to reconfigure office space to meet frequent organizational requirements, easily and quickly. They solve telecommunication room congestion and reduce network downtime. Each zone enclosure product serves as a main distribution point for a particular zone.

PanZone® Wall Mount Cabinets

- Holds 12 RU of active and passive network equipment plus two additional RU for power strips and small electronic devices (modems, routers and 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" 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



PZWMC12P



Part Number	RU	Depth In.	Door Type	Load Rating Lbs.
-------------	----	-----------	-----------	------------------

PanZone® Wall Mount Cabinets

PZWMC12W	12	25	Window	250
PZWMC12P			Perforated	
PZWMC1230W	30	30	Window	
PZWMC1230P			Perforated	
PZWMC18W	18	25	Window	300
PZWMC18P			Perforated	
PZWMC1830W	30	30	Window	
PZWMC1830P			Perforated	
PZWMC26W	26	25	Window	350
PZWMC26P			Perforated	
PZWMC2630W	30	30	Window	
PZWMC2630P			Perforated	

Part Number	Part Description	No. of Rack Units [^]	Std. Pkg. Qty.
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PanZone® Active Wall Mount Enclosure

PZAEWM3	Active wall mount enclosure includes mounting template for quick installation; gray finish. Dimensions: 38.50"H x 27.92"W x 8.61"D (977.9mm x 709.2mm x 218.7mm).	6	1
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[^]One rack unit = 1.75" (44.45mm).

Accessories available; refer to www.panduit.com for additional information.

PanZone® In-Ceiling Enclosures

- Hinged door with integrated 110V 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" deep and three additional rack spaces up to 13.5" deep for improved network design flexibility
- 50 lb. door weight capacity
- Include door plate, equipment mounting bracket, integrated horizontal cable slack manager
- AC power ready – receptacle not included (PZICEA only)
- Includes low decibel 60 CFM fan (PZICEA only)
- Keys for locking latch to secure the ceiling door
- UL 2043 Plenum rated and UL 1863 rated



Part Number	Part Description	No. of Rack Units [^]	Std. Pkg. Qty.
PanZone® In-Ceiling Enclosures			
PZICEA	Fully assembled in-ceiling active enclosure. Accepts up to 2 RU of active network equipment and up to 6 RU of passive product. Includes mounting brackets, integrated horizontal slack manager, AC power provisions, fan assembly, air dam, electrical junction box and 20 Hook & Loop Cable Ties for bundling cables. External dimensions: 13.43"H x 23.50"W x 27.23"D (341.1mm x 596.9mm x 691.6mm). Internal dimensions: 12.24"H x 22.28"W x 22.46"D (310.9mm x 565.8mm x 570.5mm).	8	1
PZICE	Fully assembled in-ceiling passive enclosure. Accepts up to 8 RU of standard 19" patch panels. Includes mounting brackets, integrated horizontal slack manager and 20 Hook & Loop Cable Ties for bundling cables. External dimensions: 13.43"H x 23.50"W x 23.50"D (341.1mm x 596.9mm x 596.9mm). Internal dimensions: 12.24"H x 22.28"W x 22.46"D (310.9mm x 565.8mm x 570.5mm).		

[^]One rack unit = 1.75" (44.45mm).
Accessories available; refer to www.panduit.com for additional information.

PanZone® Basic In-Ceiling Enclosures

- Holds 2 RU of active equipment and up to 6 RU of patch panels (PZICEAE) or up to 8 RU of patch panels (PZICEE) by minimizing floor space required in telecommunications rooms to relieve congestion
- Hinged door with integrated 110V exhaust fan and folding lid supports
- Thermal management system (PZICEAE) optimizes airflow for improved heat dissipation of higher heat load network equipment
- Two-tier mounting bracket accommodates two rack spaces of active equipment up to 17.5" deep and three additional rack spaces up to 13.5" deep for improved network design flexibility
- 35 lb. door weight capacity
- Four snap bushings that fit around side wall knockouts to protect cables from sharp edges
- UL 2043 Plenum rated and UL 1863 rated



PZICEAE

Part Number	Part Description	No. of Rack Units [^]	Std. Pkg. Qty.
PanZone® Basic In-Ceiling Enclosures			
PZICEAE	Fully assembled in-ceiling active enclosure. Accepts up to 2 RU of active network equipment and up to 6 RU of passive product. Includes mounting brackets, integrated horizontal slack manager, AC power provisions and 20 Hook & Loop Cable Ties for bundling cables. External dimensions: 12.63"H x 23.50"W x 23.50"D (320.9mm x 596.9mm x 596.9mm). Internal dimensions: 11.63"H x 22.36"W x 22.55"D (295.5mm x 568.0mm x 572.7mm).	8	1
PZICEE	Fully assembled in-ceiling passive enclosure. Accepts up to 8 RU of standard 19" patch panels. Includes mounting brackets, integrated horizontal slack manager and 20 Hook & Loop Cable Ties for bundling cables. External dimensions: 12.63"H x 23.50"W x 23.50"D (320.9mm x 596.9mm x 596.9mm). Internal dimensions: 11.63"H x 22.36"W x 22.55"D (295.5mm x 568.0mm x 572.7mm).		

[^]One rack unit = 1.75" (44.45mm).
Accessories available; refer to www.panduit.com for additional information.

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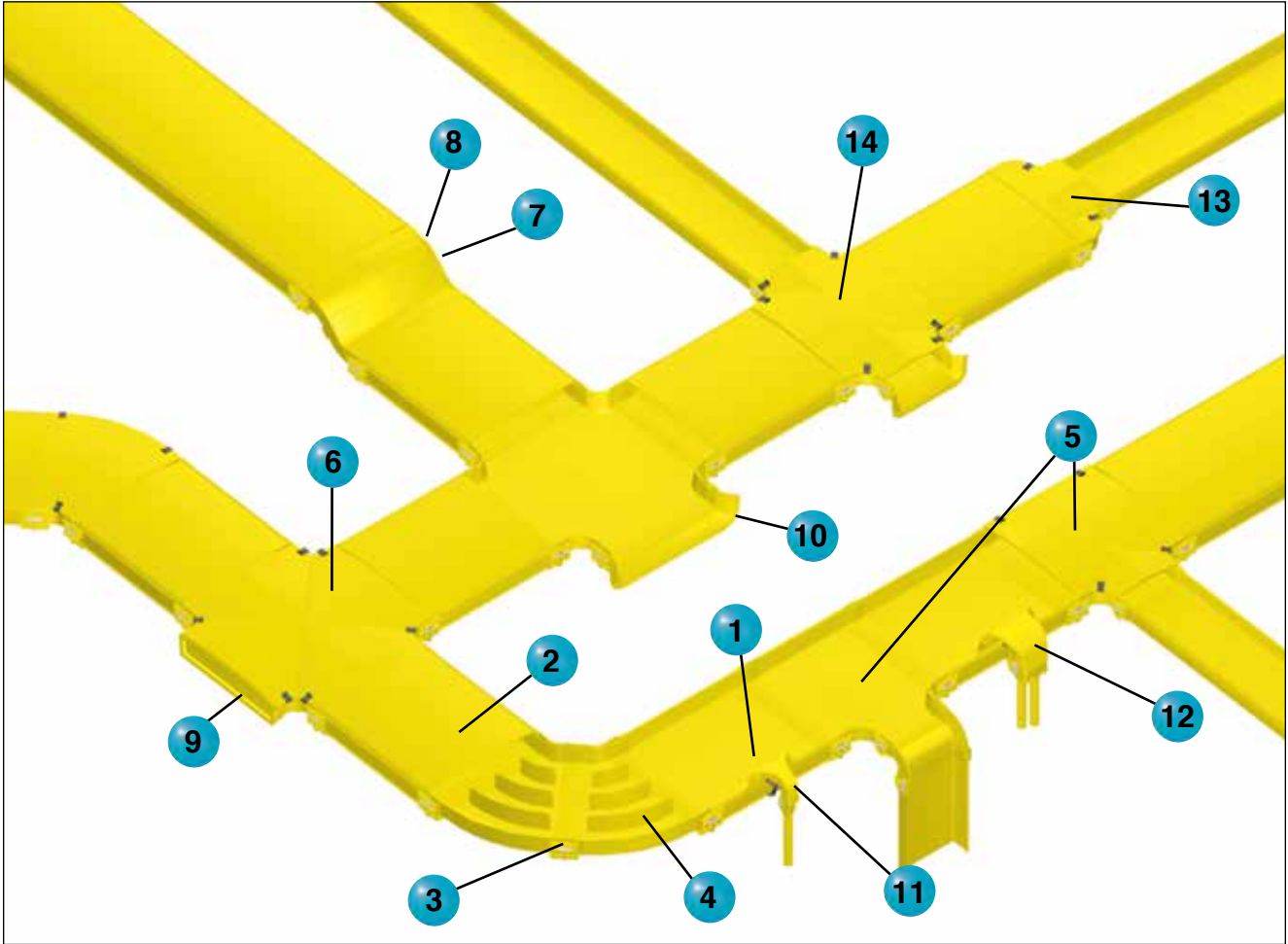
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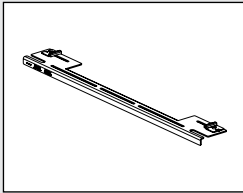
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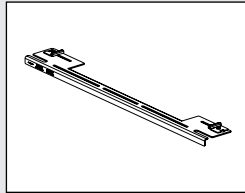
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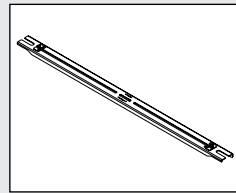
24x4 FiberRunner® Mounting Brackets



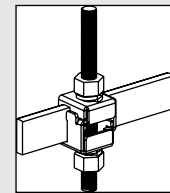
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FRTBWG30BL - Wyr-Grid® Mounting Bracket for FiberRunner® System (page J.7)



F2PCLB12 - Two-Piece Ladder Rack Bracket for Attaching Threaded Rod to 1 1/2" - 2" Ladder Rack (page J.7)

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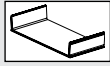
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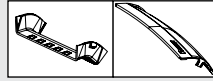
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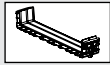
8 FROV4524X4** – 24x4 Outside Vertical 45° Angle Fitting and FROV45CV24** – Cover (page J.5)



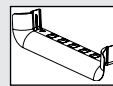
2 FRCV24**10 – 24x4 Snap-On Cover (page J.4)



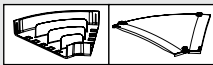
9 FREC24X4** – 24x4 End Cap Fitting (page J.5)



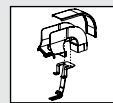
3 FRBC24X4** – 24x4 QuikLock™ Coupler (page J.4)



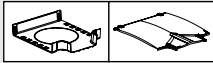
10 FRTR24X4** – 3-Sided BRC Trumpet Spillout for 24x4 Exit (page J.6)



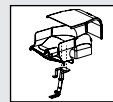
4 FRH4524X4** – 24x4 Horizontal 45° Angle Fitting and FRH45CV24** – Cover (page J.5)



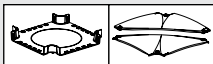
11 FRSPJ2X2** – Spill-Over Junction with 2x2 Exit (page J.6)



5 FRT24X4W12** – 24x4 Horizontal Tee with 12x4 Exit and FRTCV24W12** – Cover (page J.5)



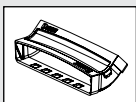
12 FRSPJ4X4** – Spill-Over Junction with 4x4 Exit (page J.6)



6 FRFWC24X4** – 24x4 4-Way Cross Fitting and FRFWCCV24** – Cover (page J.5)



13 FRRF2412** – 24x4 to 12x4 FiberRunner® Reducer Fitting and FRRF2412CV** – Cover (page J.6)



7 FRIV4524X4** – 24x4 Inside Vertical 45° Angle Fitting (page J.5)



14 FRFWC24X4W12** – 24x4 4-Way Cross Fitting with 12x4 Exits and FRFWCCV24W12** – Cover (page J.5)

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

24x4 FiberRunner® System Fittings

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



Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
24x4 Horizontal 45° Angle Fitting				
FRH4524X4YL	Attaches to 24x4 channel and/or fittings to create a 45° horizontal turn from a straight horizontal run.	(2 pcs.) FRBC24X4YL	1	—
Cover for 24x4 Horizontal 45° Angle Fitting				
FRH45CV24YL	Cover for the horizontal 45° angle fitting FRH4524X4YL.	—	1	—
24x4 Horizontal Tee with 12x4 Exit				
FRT24X4W12YL	Attaches to 24x4 channel and/or fittings to create a 90° horizontal branch with a 12x4 exit from straight horizontal run. Accepts split cover FRTCV24W12YL.	(2 pcs.) FRBC24X4YL (1 pc.) FRBC12X4YL	1	—
Cover for 24x4 Horizontal Tee with 12x4 Exit				
FRTCV24W12YL	Cover for the horizontal tee fitting FRT24X4W12YL.	—	1	—
24x4 Four-Way Cross Fitting				
FRFWC24X4YL	Attaches to 24x4 channel and/or fittings to create a horizontal four-way cross intersection with two 24x4 exits. Accepts split cover FRFWCCV24YL.	(4 pcs.) FRBC24X4YL	1	—
24x4 FiberRunner® Four-Way Cross Cover				
FRFWCCV24YL	Cover for the four-way cross fitting FRFWC24X4YL.	—	1	—
24x4 Four-Way Cross Fitting with 12x4 Exits				
FRFWC24X4W12YL	Attaches to a 24x4 channel and/or fittings to create a horizontal four-way cross intersection with two 12x4 exits. Accepts split cover FRFWCCV24W12YL.	(2 pcs.) FRBC24X4YL (2 pcs.) FRBC12X4YL	1	—
Cover for 24x4 Four-Way Cross Fitting with 12x4 Exits				
FRFWCCV24W12YL	Cover for the four-way cross fitting FRFWC24X4W12YL.	—	1	—
24x4 End Cap Fitting				
FREC24X4YL	Used for closing off open ends of the channel or fittings.	—	1	5
24x4 Inside Vertical 45° Fitting and Cover				
FRIV4524X4YL	Attaches to 24x4 channel and/or fittings to create a 45° upward angle from a straight horizontal run. Used with outside vertical 45° angle fitting FROV4524X4YL to change level of a straight horizontal run. Includes cover.	(2 pcs.) FRBC24X4YL	1	—
24x4 Outside Vertical 45° Fitting				
FROV4524X4YL	Attaches to 24x4 channel and/or fittings to create a 45° downward angle from a straight horizontal run. Used with inside vertical 45° angle fitting FRIV4524X4YL to change level of a horizontal run.	(2 pcs.) FRBC24X4YL	1	—
Cover for 24x4 Outside Vertical 45° Angle Fitting				
FROV45CV24YL	Cover for the outside vertical 45° angle fitting FROV4524X4YL.	—	1	—

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

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24x4 FiberRunner® Mounting Brackets



FR24TBE12
FR24TBE12M



FR24TBN12
FR24TBN12M



FRTBWG30BL



F2PCLB12

Part Number	Part Description	For Threaded Rod Size	Std. Pkg. Qty.	Std. Ctn. Qty.
Existing Threaded Rod QuikLock™ Mounting Bracket for 24x4 System				
FR24TBE12	Used to support the 24x4 system by spanning two 1/2" existing threaded rod drops.	1/2"	1	—
FR24TBE12M		12mm		
New Threaded Rod QuikLock™ Mounting Bracket for 24x4 System				
FR24TBN12	Used to support the 24x4 system from new threaded rod installations.	1/2"	1	—
FR24TBN12M		12mm		
Wyr-Grid® Mounting Bracket for FiberRunner® System				
FRTBWG30BL	FiberRunner® QuikLock™ Threaded Rod Trapeze Bracket for Wyr-Grid® Pathway 30" (762mm) width. Used to support FiberRunner® 4x4, 6x4, 12x4, and 24x4 Channel above or below the Wyr-Grid® 30" Pathway using the same 1/2" or 12mm threaded rod used to support the WGTB30BL bracket. Quick mount clips, FRQMC24-X are not included for installing the 24x4 channel.	1/2"	1	10
		12mm		
FiberRunner® Quick Mount Clips				
FRQMC24-X	Used whenever a FiberRunner® 24x4 Channel is installed on the FiberRunner® Trapeze Bracket, FRTBWG30BL for 30" Wyr-Grid® Pathway. For use with FiberRunner® 24x4 Channel only.	—	10	50
Two-Piece Ladder Rack Bracket for Attaching Threaded Rod to 1 1/2" – 2" Ladder Rack				
F2PCLB12	Two-piece bracket attaches to 3/8" (9.5mm) wide x 1 1/2" (38.1mm) or 3/8" (9.5mm) wide x 2" (50.8mm) ladder rack rail.	1/2"	1	10

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12x4 FiberRunner® System Fittings (continued)



FRTSC12



FRT12X4W6



FRTSC12W6



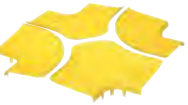
FRT12X4W4



FRTSC12W4



FRFWC12X4



FRFWC12X4YL



FRFWCSC12



FRFWC12X4W6



FRFWCSC12W6



FRFWC12X4W4



FRFWCSC12



FRFWCSC12W4

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
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Split Cover for 12x4 Horizontal Tee Fitting

FRTSC12YL	Split cover for the horizontal tee fitting FRT12X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
-----------	--	---	---	---

12x4 Horizontal Tee with 6x4 Exit

FRT12X4W6YL	Attaches to 12x4 channel and/or fittings to create a 90° horizontal branch with a 6x4 exit from straight horizontal run. Accepts split cover FRTSC12W6YL.	(2 pcs.) FRBC12X4YL (1 pc.) FRBC6X4YL	1	—
-------------	---	--	---	---

Split Cover for 12x4 Horizontal Tee with 6x4 Exit

FRTSC12W6YL	Split cover for the horizontal tee with 6x4 exit fitting FRT12X4W6YL. Snap-on feature allows cover to be installed and removed without tools. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
-------------	---	---	---	---

12x4 Horizontal Tee with 4x4 Exit

FRT12X4W4YL	Attaches to 12x4 channel and/or fittings to create a 90° horizontal branch with a 4x4 exit from straight horizontal run. Accepts split cover FRTSC12W4YL.	(2 pcs.) FRBC12X4YL (1 pc.) FRBC4X4YL	1	—
-------------	---	--	---	---

Split Cover for 12x4 Horizontal Tee with 4x4 Exit

FRTSC12W4YL	Split Cover, Horizontal Tee with 4x4 exit.	—	1	5
-------------	--	---	---	---

12x4 Four-Way Cross Fitting

FRFWC12X4YL	Attaches to 12x4 channel and/or fitting to create a horizontal four-way cross intersection with two 12x4 exits.	—	1	—
-------------	---	---	---	---

Split Cover for 12x4 Four-Way Cross

FRFWCSC12YL	Split cover for the four-way cross fitting FRFWC12X4YL.	—	1	—
-------------	---	---	---	---

12x4 Four-Way Cross Fitting with 6x4 Exits

FRFWC12X4W6YL	Attaches to 12x4 channel and/or fittings to create a horizontal four-way cross intersection with two 6x4 exits. Accepts split cover FRFWCSC12W6YL.	(2 pcs.) FRBC12X4YL (2 pcs.) FRBC6X4YL	1	—
---------------	--	---	---	---

Split Cover for 12x4 Four-Way Cross Fitting with 6x4 Exits

FRFWCSC12W6YL	Split cover for the four-way cross fitting FRFWC12X4W6YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
---------------	--	---	---	---

12x4 Four-Way Cross Fitting with 4x4 Exits

FRFWC12X4W4YL	Attaches to 12x4 channel and/or fittings to create a horizontal four-way cross intersection with two 4x4 exits.	(2 pcs.) FRBC12X4YL (2 pcs.) FRBC4X4YL	1	—
---------------	---	---	---	---

Split Cover for 12x4 Four-Way Cross with 4x4 Exit

FRFWCSC12W4YL	Split cover for the four-way cross fitting FRFWC12X4W4YL.	—	1	5
---------------	---	---	---	---

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

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Selection Chart for using Pan-Way® Surface Raceway with Pan-Way® Surface Mount Outlet Boxes..... K.17

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**D.
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**F.
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Video
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**G.
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Cabling
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**H.
Zone
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**J.
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Routing
Systems**

**K.
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Raceway**

**L.
Cabinets
& Rack
Systems**

**M.
Power
Management**

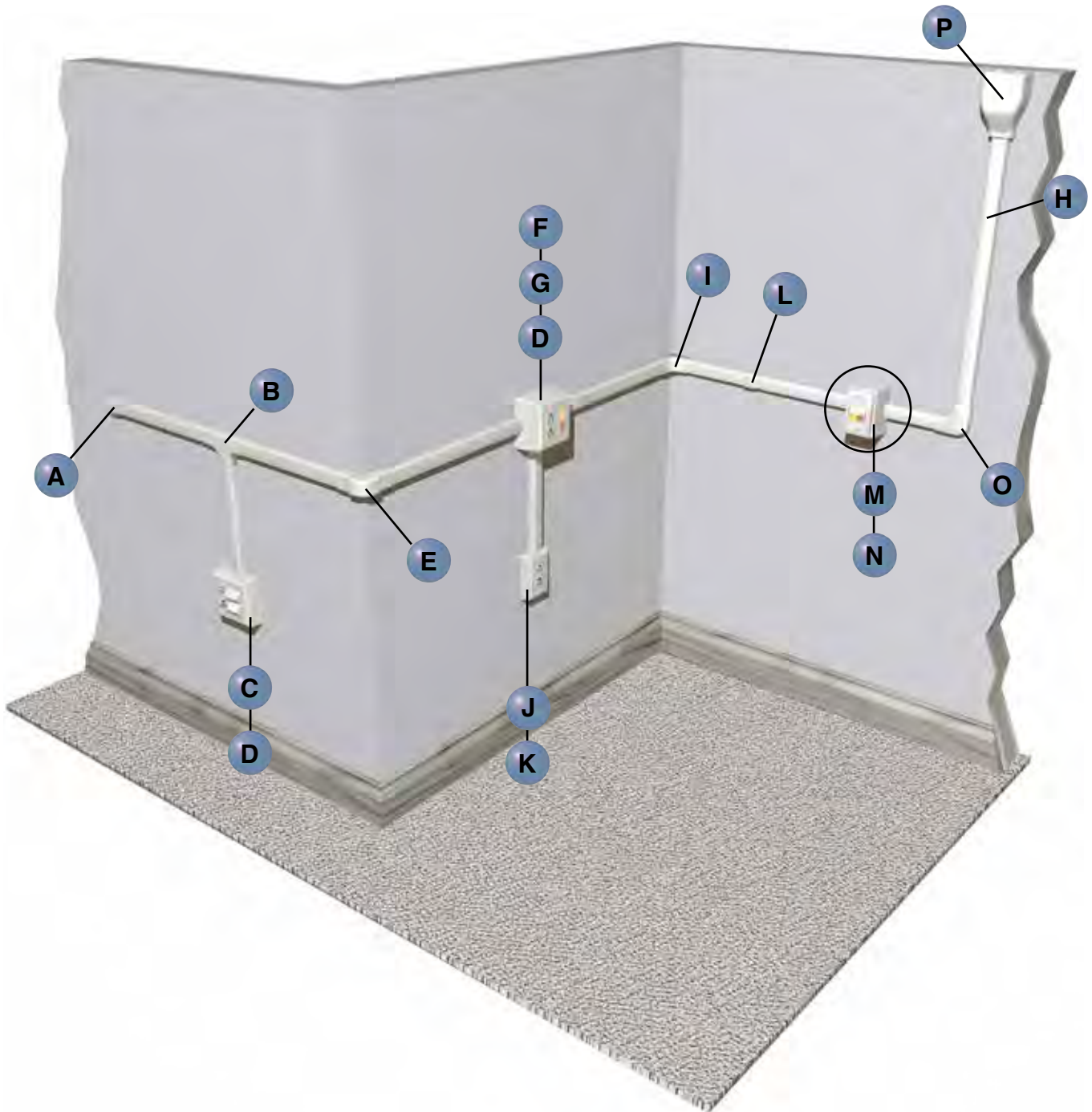
**N.
Grounding
& Bonding**

**O.
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LD Raceway Roadmap



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E. Industrial Networks

F. Audio Video Systems

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H. Zone Cabling

J. Cable Routing Systems

K. Surface Raceway

L. Cabinets & Rack Systems

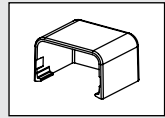
M. Power Management

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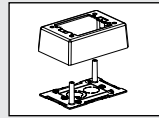
O. Identification Products

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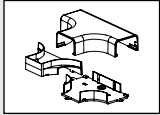
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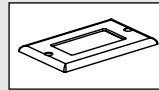
A ECFX10IW – Power Rated End Cap Fitting (page K.8)



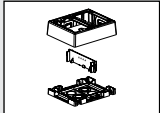
J JBP1IW – Power Rated Single Gang Two-Piece Box (page K.8)



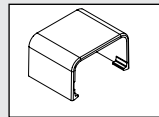
B TFXD10IW – 1 Inch Bend Radius Tee Fitting (page K.8)



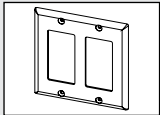
K CPGIW – Single Gang Rectangular Screw-On Faceplate (page K.15)



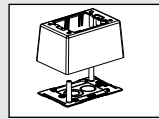
C JBP2SIW – Power Rated Double Gang Two-Piece Divided Box (page K.14)



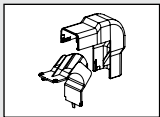
L CFX10IW – Power Rated Coupler Fitting (page K.8)



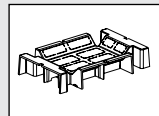
D CPGIW-2G – Double Gang Rectangular Screw-On Faceplate (page K.15)



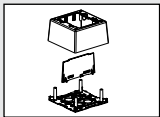
M JBP1DIW – Single Gang Two-Piece Deep Box (page K.14)



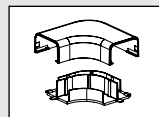
E OCFX10IW – 1 Inch Bend Radius Outside Corner Fitting (page K.6)



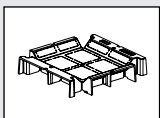
N JBD1 – Single Gang Pass Through Divider for LD2P10 Raceway (page K.14)



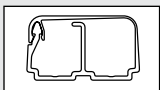
F JBP2DIW – Power Rated Double Gang Two-Piece Deep Box (page K.14)



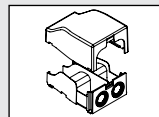
O RAFX10IW – Power Rated Right Angle Fitting (page K.8)



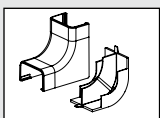
G JBD2 – Double Gang Pass Through and Divider for LD2P10 Raceway (page K.14)



H LD2P10IW – Raceway (page K.7)



P EEFXIW – Power Rated/1 Inch Bend Radius Entrance End Fitting (page K.8)



I ICFX10IW – Power Rated Inside Corner Fitting (page K.8)

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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



LD2P10—Left	LD2P10—Right
.43 in. ²	.50 in. ²



LDS3	LDS5
.21 in. ²	.38 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.

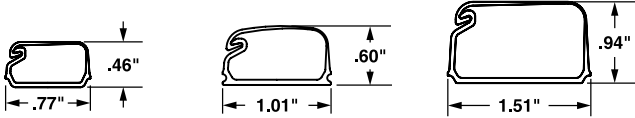
Raceway Type and Configuration	Fill Area (In. ²)	Electrical Cables			Data Grade Cables		Data Grade Cables		Audio/Video		Fiber Optic Cable	
		14 AWG	12 AWG	10 AWG	23 AWG/UTP	23 AWG/UTP CM	RG6		2 Strand			
		THHN/T90			Category 6 (4-pr.)		Category 6A					
		0.111	0.130	0.164	Dia. = 0.240		Dia. = 0.285		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
LD2P10 – Left channel	0.43	14	11	8	—	—	—	—	—	—	—	—
LD2P10 – Right channel	0.50	—	—	—	4	6	3	4	3	5	8	12

AWG dimensions represent typical outer cable diameter in inches.

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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.

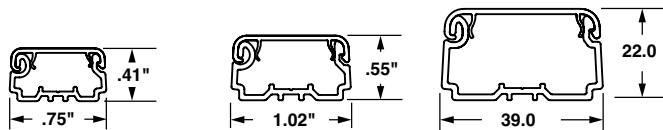


Part Number			Length
LD3IW6-A	LD5IW6-A	LD10IW6-A	6 Foot
LD3IW8-A	LD5IW8-A	LD10IW8-A	8 Foot
LD3IW10-A	LD5IW10-A	LD10IW10-A	10 Foot

For other colors replace IW (Off White) with EI (Electric Ivory) or WH (White).
 Order number of feet required in multiples of standard length increments.

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.



Part Number			Length
LDPH3IW6-A	LDPH5IW6-A	LDPH10IW6-A	6 Foot
LDPH3IW8-A	LDPH5IW8-A	LDPH10IW8-A	8 Foot
LDPH3IW10-A	LDPH5IW10-A	LDPH10IW10-A	10 Foot

LDPH raceway requires screw mounting for power cabling applications.
 Order number of feet required in multiples of standard length increments.
 For other colors replace IW (Off White) with EI (Electric Ivory) or WH (White).

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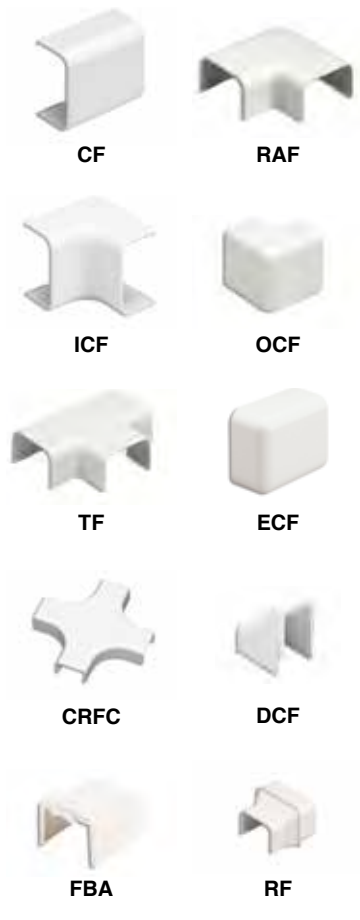
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Standard Fittings for Low Voltage Applications



LD3	LD5	LD10	
Part Number			Fitting Type
CF3IW-E	CF5IW-E	CF10IW-X	Coupler
RAF3IW-E	RAF5IW-E	RAF10IW-X	Right Angle
ICF3IW-E	ICF5IW-E	ICF10IW-X	Inside Corner
OCF3IW-E	OCF5IW-E	OCF10IW-X	Outside Corner
TF3IW-E	TF5IW-E	TF10IW-X	Tee
ECF3IW-E	ECF5IW-E	ECF10IW-X	End Cap
–	CRFC5IW-X	–	Cross
DCF3IW-X	DCF5IW-X	DCF10IW-X	Drop Ceiling/ Entrance End
FBA3IW-X	FBA5IW-X	FBA10IW-X	Fire Box Adapter

For other colors replace IW (Off White) with EI (Electric Ivory) or WH (White).

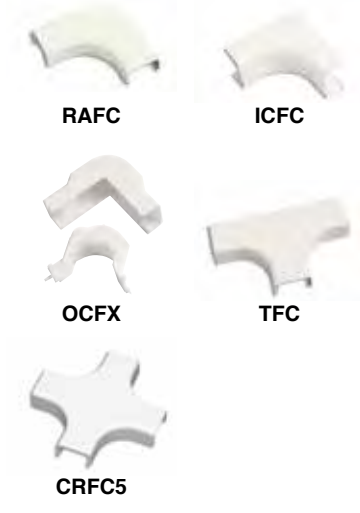
Part Number	Reducer Fitting
RF5X3IW-E	From Size LD5 to LD3
RF10X3IW-X	From Size LD10 to LD3
RF10X5IW-X	From Size LD10 to LD5

For other colors replace IW (Off White) with EI (Electric Ivory) or WH (White).



One Inch Bend Radius Fittings for TIA/EIA Compliance

- One inch bend radius 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



LD3 / LDPH3	LD5 / LDPH5	LD10 / LDPH10	
Part Number			Fitting Type
RAFC3IW-X	RAFC5IW-X	RAFC10IW-X	Right Angle
ICFC3IW-X	ICFC5IW-X	ICFC10IW-X	Inside Corner
OCFX3IW-X	OCFX5IW-X	OCFX10IW-X	Outside Corner (LDPH Only)
TFC3IW-X	TFC5IW-X	TFC10IW-X	Tee
–	CRFC5IW-X	–	Cross

For other colors replace IW (Off White) with EI (Electric Ivory) or WH (White).

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Net-Access™ N-Type Cabinets

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



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

Net-Access™ N-Type Standard Configured Cabinets

Series	Width	Height	Depth	Side Panels	Colors	Standards Options (Select Only One)
N	8 = 800mm	2 = 42RU 5 = 45RU 8 = 48RU	1 = 1070mm 2 = 1200mm	2 = 2 side panels* 9 = No side panel	B = Black W = White	C = Cage Nut Rails E = Single Hinge Front Door and Cage Nut Rails S = No Doors** T = Integral Cabinet Top Cable Routing System** TC = Integral Cabinet Top Cable Routing System and Cage Nut Rails U = Vertical Blanking and Cage Nut Rails V = VED Ready ** Y = VED Ready and Cage Nut Rails YT = VED Ready, Cage Nut Rails, and Integral Cabinet Top Cable Routing System

*Standard side panel.

**Includes #12-24 tapped equipment rails. V, Y and YT - only available for 1200mm deep cabinets.

Standard Configurations have 6 characters with only one standard option suffix.

N	8	2	1	2	B		
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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
- 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

Net-Access™ S-Type Standard Configured Cabinets

Series	Width	Height	Depth	Side Panels	Colors	Standards Options (Select Only One)
S	6 = 600mm 7 = 700mm 8 = 800mm	2 = 42RU 5 = 45RU 8 = 48RU	1 = 1070mm 2 = 1200mm	2 = 2 side panels* 9 = No side panel	B = Black W = White	F = Vertical Cable Management Fingers P = Vertical Patching Equipment Rails S = No Doors T = Integral Cabinet Top Cable Routing System T9 = Integral Cabinet Top Cable Routing System and No Casters V = VED Ready V9 = VED Ready and No Casters 9 = No Casters

*Standard side panel P - only available for 600mm wide S-Type Cabinets. V and V9 - only available for 1200mm deep cabinets.

Standard Configurations have 6 characters with only one standard option suffix.

S	6	2	1	2	B		
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Net-Access™ Dynamic Cabinets

The Net-Access™ Dynamic Cabinet is designed to allow the cabinet to be installed with equipment at one facility and safely shipped to another location. This is the ideal cabinet for System Integrators or Value Added Resellers as it allows the equipment to be pre-installed, cabled and ready for quick deployment. The heavy duty reinforced frame has been tested and approved to support the additional weight of equipment. A heavy duty shock pallet allows the cabinet to be shipped with equipment. The optional reusable ramp allows the cabinet to be easily unloaded from the pallet.



- Outset post design
- Welded and assembled steel frame construction
- Easy maintenance powder coat finish
- Adjustable rear equipment rails with continuous positioning
- Fixed front equipment rails
- Integral vertical airdams with covered cable pass-through openings
- Large cable entry/cable access
- Single hinge perforated front door with keyed swing handle
- Split hinge perforated rear door with keyed swing handle
- Optional split side panels on both sides with dual latches and keyed lock
- Two sets of PDU mounting brackets

- High density cable management fingers (SN25F)
- Select cable entry holes are equipped with plastic sealing plugs, others have cutouts
- Static load of 1,361kg (3,000 lbs.)
- Rolling load of 1,136kg (2,500 lbs.)
- Dynamic shipping load of 907kg (2,000 lbs.)
- EIA-310-E compliant
- Fully integral bonded without the use of grounding wires - equipment rails, door and side panels
- Hardware kit: M6 screws and cage nuts
- Factory installed casters, swivel in the rear and fixed in the front
- Adjustable leveling legs
- Single point grounding locations at bottom of cabinet

Part Number	Nominal Width mm	Height	Nominal Depth mm	Side Panels	Color	Ramp
S7222BDHRSP	700	42 RU	1200	2	Black	Yes
S7222BDHSP						No
S7229BDHRSP				Yes		
S7229BDHSP				No		

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Net-Access™ Cabinet Accessories (continued)



Part Number	N-Type Compatibility	S-Type Compatibility	Description
PDU Brackets and Cable Management			
SN15F	X	X	Finger Kit (100mm Deep) 42-45 RU Cabinets
SN25F			Finger Kit (150mm Deep) 42-45 RU Cabinets
SN18F			Finger Kit (100mm Deep) 48 RU Cabinets
SN28F			Finger Kit (150mm Deep) 48 RU Cabinets
SN11F			Finger Kit (100mm Deep) 51 RU Cabinets
SN21F			Finger Kit (150mm Deep) 51 RU Cabinets
NVPDUBE		—	PDU Bracket - Sold in Pairs
SPDUBRK			
S2BRK6	—		Combination PDU/Cable Management Bracket - 6" Wide
S2BRK12		Combination PDU/Cable Management Bracket - 12" Wide	
SN7VCM		Vertical Cable Management Bracket - 700mm Wide Cabinets	
SN8VCM	X	X	Vertical Cable Management Bracket - 800mm Wide Cabinets
SN8FBB			Front to Back Cable Management Bracket
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
S1LR			1 RU L-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
Slack Spools			
NERSS	X	—	End of Row Slack Spool
NACSS			Adjustable Center Slack Spools 210mm (8.3") to 267mm (10.5")
Vertical Patch			
S7VPPB	—	X	Vertical Patch Bracket for 700mm Wide Cabinets
SN8VPPB	X		Vertical Patch Bracket for 800mm Wide Cabinets

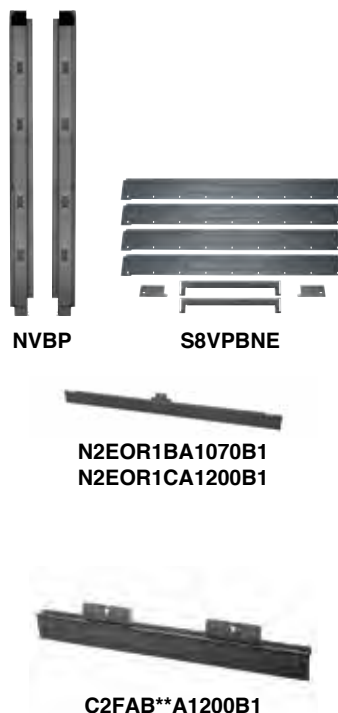
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Net-Access™ Cabinet Accessories (continued)



Part Number	N-Type Compatibility	S-Type Compatibility	Description
Casters			
NCSTR4	X	—	2 Fixed Casters for Front - 2 Swivel Casters for Rear
SCSTR4	—	X	
OSHPD Brackets			
NAKOSHDP	X	—	Oshpod Bracket for N-Type Cabinet
SAKOSHDP	—	X	Oshpod Bracket for S-Type Cabinet
Locks			
CCL3	X	X	3-digit Combination Locks with Key Over-ride for Single Hinge or Split Doors
Shelves			
RSHLF23	X	X	Shelf Kit - 44mm H x 483mm W x 584mm D Load Rating 275 lbs.
RSHLF			Shelf Kit - 44mm H x 483mm W x 762mm D Load Rating 275 lbs.

NetAccess™ Cabinet Thermal Management Accessories



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
S6VBPN	—	X*	Vertical Blanking Panels (No Pass Thru Openings)
S7VBPN			Vertical Blanking Panels with 1x5 Knockouts
S8VBPN			Vertical Blanking Panels with 19" 1 RU Pass Thru Openings
S8VPBNE			Vertical Blanking Panels with 19" 1 RU Pass Thru Openings
Floor Seals			
N2EOR1BA1070B1	X	—	End of Row Floor Seal for 1070mm Deep Cabinets
N2EOR1CA1200B1			
S2EOR1BA1070B1		X	End of Row Floor Seal for 1200mm Deep Cabinets
S2EOR1CA1200B1			
C2FAB06A1200B1	X	X	Front or Back Floor Seal
C2FAB07A1200B1			
C2FAB08A1200B1			

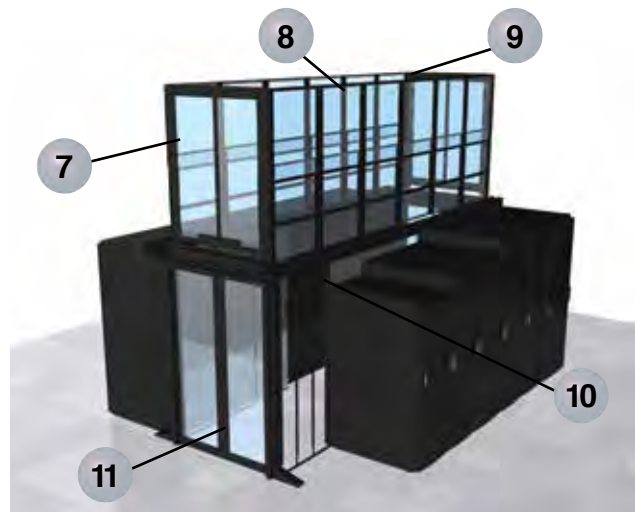
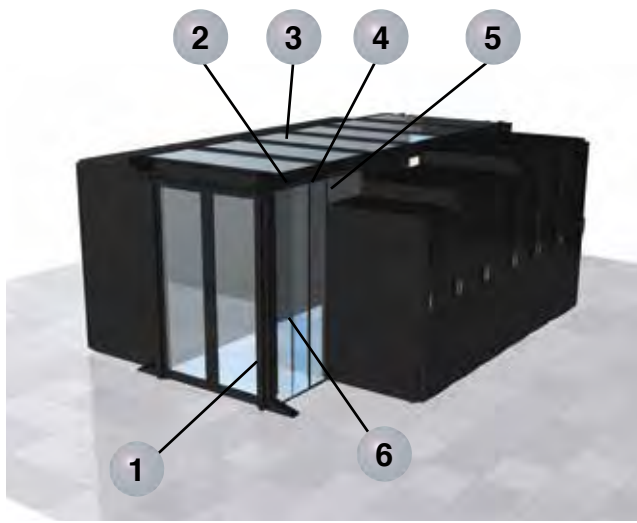
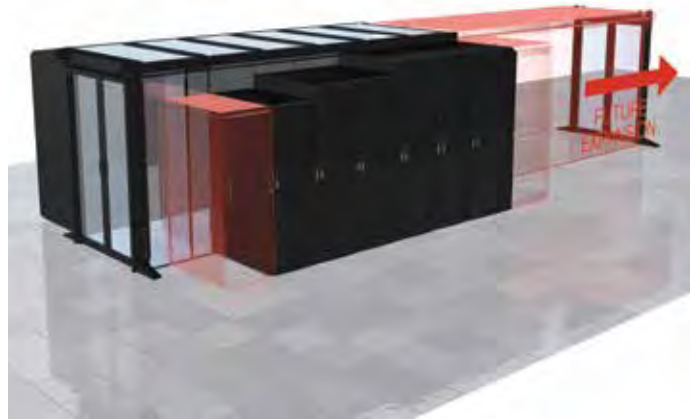
*S-Type Universal Cabinets only.

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Net-Contain™ Universal Containment System

The Universal Containment System allows user to go back and 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.



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.

Part Number	Description
1 CUEFRT**^^	End of row frames form the Universal Aisle Containment structure at each end of a containment pod.
2 CUWBSS**ST^^	Wall beam used to help create the UAC frame; configurations of 4 available wall beams will allow all aisle lengths to be contained.
3 CUSMPR52ST01NC	Mid-span post that provides structural support to the UAC frame; required for every 2400 mm on partially populated row.
4 CURFS06F**HB^^	Integral ceiling structure used for aisle containment and mounted onto the top of the UAC frame.
5 CUTBPR0610HBN1	Top of cabinet blanking panel used to fill gaps above cabinets; needed when cabinet height is less than UAC frame size.
6 CUFBPR**06HB^^	Full blanking panel used to fill gap in containment where cabinets have not been deployed; mount directly under UAC frame.
7 C2HACER11626^^	End of row adjustable vertical wall used to seal at the end of the UAC and mounted above end of row frame for aisle containment.
8 C2HAC**11626^^	Adjustable vertical wall mounted onto UAC frame to seal gap up to ceiling plenum in aisle containment.
9 CUVWB12S12ST^^	Vertical wall brace is mounted across the aisle between wall beams to provide extra stability in aisle containment.
10 CUVWA06S**ST^^	Vertical wall adapter used to mount Vertical Walls to UAC frame in aisle containment.
11 CUD*SD^1	Dual sliding doors provide thermal seal at the end of the row and attach to the end of row frames.

^^B1 = Black, W1 = White.

**Please reference www.panduit.com for information on the Net-Contain Universal Containment System.

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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 and Juniper Networks^^ EX Series 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.

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

^{^^}Juniper Networks is a registered trademark of Juniper Networks, Inc.

*Patents #8,035,965, #7,855,885 and #7,595,985 - Network Cabinet with Thermal Airflow Management System.

In-Cabinet Ducting

Net-Direct™ In-Cabinet Ducting

- Net-Direct™ Passive Cabinet Inlet Ducting directs cooling air from the cold aisle into the intake fans of switches

- Net-Direct™ Passive Cabinet Exhaust Ducting directs exhaust air from the side exhaust of the switch into the hot aisle



CDE1



CDE2



CNLTD21B2



CNLTD52A2



CNLTD142A3



CNLTD72A3



DIBBC2314S21W



DIRLC2214M21W



DIRBB2007S21W



Exhaust Ducts

Part Number	Part Description	Std. Pkg. Qty.
Air Inlet Ducting		
CDE1	Air inlet duct, 1 RU that resides below the switch provides cold aisle airflow to Cisco® Catalyst® 4948, 4928, and 4924. Optimized for use in server cabinet applications.	1
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.	
CNLTD21B2	Air inlet duct designed for Cisco® Catalyst® 4900M switch. Consists of one 2 RU inlet duct and a side duct. Compatible with Net-Access™ N-Type Network Cabinets.	
CNLTD52A2	Air inlet duct designed for Cisco® Catalyst® 6504-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.	
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.	
CNLTD142A3	Air inlet duct designed for Cisco® Nexus® 7009 switch. Consists of 3 RU top and 3 RU bottom inlet ducts and a side duct. Compatible with Net-Access™ N-Type Network Cabinets.	
CNLTD72A3	Air inlet duct designed for Cisco® MDS 9506 switch. Consists of 3 RU top and 3 RU bottom inlet ducts and a side duct. Compatible with Net-Access™ N-Type Network Cabinets.	
DIBBC2314S21W	Air inlet duct designed for Cisco® MDS 9513 switch. Consists of 2 RU top and 3 RU bottom inlet ducts and a side duct. Compatible with Net-Access™ N-Type Network Cabinets.	
CID1RU22-23DB1	Air inlet 1RU duct for Cisco® Nexus® 9372 switch, compatible with 21.5" – 23.5" switch depth.	
CID2RU16-20DB1	Air inlet duct for Cisco® TOR switches, 2RU, depth compatible with 16" – 20" switch depth.	
DIFBA2002S00S	Air inlet duct for Cisco® Nexus® 9396 switch.	
DIFBA3003S00S	Air inlet duct for Cisco® Nexus® 93128 switch.	
DIRLC3210S17W	Air inlet duct for Cisco® Catalyst® 6807XL switch.	
DIRLC25S23W	Air inlet duct for Cisco® Catalyst® 6880X switch.	
Exhaust Ducting		
DERLCC6509A	Air exhaust duct for Net-Access™ N-Type 1070mm depth cabinets. Designed for Cisco® Catalyst® 6509 switch.	1
DERLCC9513A	Air exhaust duct for Net-Access™ N-Type 1070mm depth cabinets. Designed for Cisco® MDS 9513 switch.	
DERLCC7009A	Air exhaust duct for Net-Access™ N-Type 1070mm depth cabinets. Designed for Cisco® Nexus® 7009 switch.	
DERLCC6513A	Air exhaust duct for Net-Access™ N-Type 1070mm depth cabinets. Designed for Cisco® Catalyst® 6513 switch.	

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

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NetRunner™ Vertical Cable Management

- Integral cable retainers on the end of each finger provides 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



WMPV22E



WMPVF22E

NetRunner™ Vertical Cable Manager

Part Number	Height In. (mm)	Width In. (mm)	Depth In. (mm)	No. of Rack Units	Single or Double Sided	Color	Std. Pkg. Qty.	
WMPV22E	41.5 (1054)	4.9 (125)	12.0 (306)	22	Double-Sided	Black	1	
WMPV45E	83.0 (2108)			6.7 (170)				14.1 (357)
WMPVHC45E		41.5 (1054)	4.9 (125)					
WMPVF22E	83.0 (2108)			6.7 (170)				7.6 (192)
WMPVF45E		41.5 (1054)	4.9 (125)		6.5 (165)			
WMPVHC45E	83.0 (2108)			6.7 (170)				7.6 (192)

NetRunner™ Accessories

Part Number	Description	No. of Rack Units	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
WMPVCBE	NetRunner™ Standard Mount Bracket Kit allows mounting to adjacent racks, four brackets per kit.	—	Black	1	10
WMPVCMB	NetRunner™ Mounting Brackets for racks with a wider mounting face dimensions up to 1 5/8" (4.1mm) wide from the edge of the rack to the center of the mounting holes, four brackets per kit.				
WMPVSMK	NetRunner™ Side Mount Bracket Kit, for use with 6" channel 2 Post Racks.				
NREP1	End panel for use with WMPVHCF45E/WMPVHC45E, includes two panel sections to cover 45 RU on one side.	45			
WMPV45EPB1	End panel for use with WMPVF45E/WMPV45E, includes two panel sections to cover 45 RU on one side.				
WMPV45ERTW	Rack top trough with waterfall creates pathway above rack, for use with R2P rack and WMPV45E/WMPVHC45E managers.				
WR5E-X	Snap-on finger cable retainers.	—		10	100

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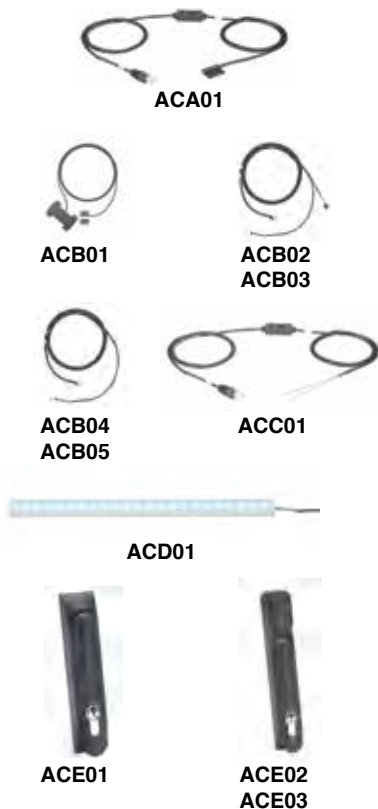
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SmartZone™ G5 Accessories Environmental



Part Number	Description	Length In.	Width In.	Height In.	Cable Length Ft.
EA001	Temperature Sensor	1.73	0.83	0.43	6.56
EB001	Temperature + Humidity Sensor				
EC001	3 Temperature + Humidity Sensor				
ED001	Water - Rope	2.36	2.36	0.87	16.40
EE001	Water - Spot				
EF001	3 Sensor Hub	3.35	1.26	1.06	-
EG001	Water - Rope Extension	2.36	2.36	0.87	

Security



Part Number	Description	Length In.	Width In.	Height In.	Cable Length Ft.
ACA01	Door Switch (Magnetic 2-Piece)	1.73 (1.14 for magnet)	0.83 (0.67 for magnet)	0.43 (0.28 for magnet)	3.28
ACB01	Access Hub for Handle (Cold and Hot Aisle Selectable)	3.74	1.46	1.14	—
ACB02	Access Hub Harness Cold Aisle, for use with ACE02	—	—	—	9.84
ACB03	Access Hub Harness Hot Aisle, for use with ACE02				8.53
ACB04	Access Hub Harness Cold Aisle, for use with ACE01				9.84
ACB05	Access Hub Harness Hot Aisle, for use with ACE01	—	—	—	8.53
ACC01	Dry Contact Input	1.73	0.83	0.43	5.91
ACD01	USB Light Strip	15.04	1	0.5	—
ACE01	Swinghandle No Card Reader	6.6x1.46	6.6x1.46	6.6x1.46	
ACE02	Swinghandle With Card Reader (125kHz)	8.27x1.46	8.27x1.46	8.27x1.46	
ACE03	Swinghandle With Card Reader (13.5MHz)			8.27x1.46	

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SmartZone™ G5 Locking Power Cords Dual-Locking: IEC C13 to IEC C14

- UL, CE, VDE, TUV Approved
- Ratings: 10A/250V
- Gauge/cross section area: 17AWG/1.0mm²
- Jacket: SJT/H05VV-F; PVC material, 105°C rated
- 3 wire conductors; colors available in: BU (Blue), BR (Brown), Green/Yellow stripe (ICC)



Part Number	Color	Length Ft.	Outside Diameter mm	Std. Pkg. Qty.
LPCA01X	Red	2	7.95–8.25	10
LPCA02X		3		
LPCA03X		4		
LPCA04X		6		
LPCA06X	Blue	2		
LPCA07X		3		
LPCA08X		4		
LPCA09X		6		
LPCA11X	Black	2		
LPCA12X		3		
LPCA13X		4		
LPCA14X		6		

Each cord is tested for dielectric voltage-withstand (Hi-Pot), polarization and continuity.

Dual-Locking: IEC C19 to IEC C20

- UL, CE, VDE, TUV Approved
- Ratings: 16A/250V
- Gauge/cross section area: 15AWG/1.5mm²
- Jacket: SJT/H05VV-F; PVC material, 105°C rated
- 3 wire conductors; colors available in: BU (Blue), BR (Brown), Green/Yellow stripe (ICC)



Part Number	Color	Length Ft.	Outside Diameter mm	Std. Pkg. Qty.
LPCB01X	Red	2	9.25–9.45	10
LPCB02X		3		
LPCB03X		4		
LPCB04X		6		
LPCB06X	Blue	2		
LPCB07X		3		
LPCB08X		4		
LPCB09X		6		
LPCB11X	Black	2		
LPCB12X		3		
LPCB13X		4		
LPCB14X		6		

Each cord is tested for dielectric voltage-withstand (Hi-Pot), polarization and continuity.

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A. Featured Products



PATENTED

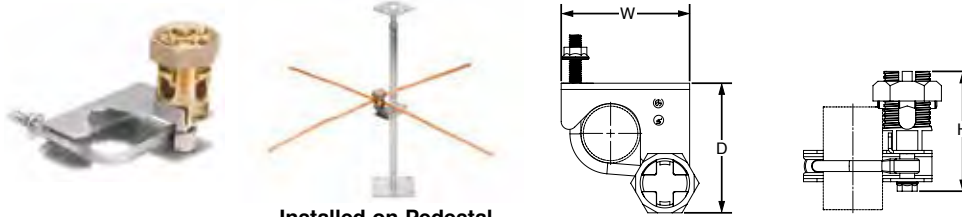
Access Floor Grounding Clamps

B. Copper Systems

- Bond mesh common bonding network (MCBN) conductors to each other and bond the access floor pedestals to the conductors
- Specifically designed to bond perpendicular MCBN conductors per TIA-942 and TIA-607-C

- Bond to the pedestal with a single bolt to simplify installation
- Accommodate conductors from #6 – 1/0 AWG, minimizes inventory requirements
- Bond round and square access floor pedestals for greater flexibility

C. Fiber Systems



Installed on Pedestal

Part Number	Dimensions - In. (mm)				Pedestal Size and Type
	Width	Bracket Width	Depth	Height	
GPQC07-1/0	3.38 (85.9)	3.25 (82.6)	4.25 (108.0)	3.19 (81.0)	3/4" Round, 7/8" Round
GPQC10-1/0			4.19 (106.4)		7/8" Square, 1" Round, 1-1/8" Round
GPQC12-1/0	4.53 (115.1)		1-1/4" Round		
GPQC15-1/0	4.47 (113.5)	1-1/2" Round			
GPQC17-1/0	-	4.00 (101.6)	5.19 (131.8)		1-3/4" Round
GPQC20-1/0			5.06 (128.5)		2" Round

For use with copper wire range #6 AWG Solid to 1/0 Stranded (16 to 50mm²).

H. Zone Cabling



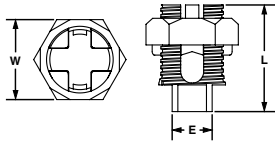
DB
RATED

Split Bolt Quad Clamp, Bronze



- Split bolt design allows easy insertion of perpendicular conductors speeding installation
- UL 467 Listed and CSA Certified for direct burial in earth or concrete
- UL Listed and CSA Certified for use up to 600 V and temperature rated 90°C

- Each clamp accepts up to two conductors for a high performance bond with faster installation
- Wide wire range-taking capability minimizes inventory requirements
- Made from high strength, electrolytic bronze to provide reliable grounding connections



Part Number	Conductor Size Range	Figure Dimensions In.			Tightening Torque In. – Lbs.	Std. Ctn. Qty.
		E	W	L		
SBQC1/0-X	#6 – #10 AWG	0.75	1.50	2.00	#6 – #4 AWG – 165 #3 – #1 AWG – 275 #1/0 – #4 AWG – 385	10

L. Cabinets & Rack Systems

M. Power Management



Common Bonding Network (CBN) Jumper Kits

- Bond the rack or cabinet to the MCBN
- HTAPs, included in kits, require crimping tool and die; see the CT-920 and CT-920/CV crimping tools on page N.23, the CT-2931/ST and CT-2931/STCV crimping tools on page N.24 and the CD-930H-250 and CD-920H-2 crimping dies on page N.25

- HTAPs are UL Listed and CSA Certified for applications up to 600 V when crimped with Panduit and specified competitor crimping tools and Panduit crimping dies
- Engineered to comply with US and International grounding requirements



Part Number	MCBN Conductor Size AWG	Dimensions In.	Std. Pkg. Qty.	Std. Ctn. Qty.
RGCBNJ660P22	HTCT2-2-1 #6 – #2 AWG	#6 AWG (16mm ²) 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.	1	10
RGCBNJ660PY	HTCT250-2-1 #6 AWG – 250 kcmil			

*HTAPs also sold separately, see pages N.19–N.20.

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Telecommunication Equipment Bonding Conductor (TEBC) Kits

- Bonds the rack or cabinet to the telecommunications grounding busbar (SBB/TGB)
- Jumper kit available with both ends factory terminated to provide a bolt-on solution
- Jumper kit available with one end factory terminated to attach to the rack or cabinet; free end accommodates unique length requirements
- Engineered to comply with US and international grounding requirements



Pre-Terminated on Both Ends

Part Number	Length		Angle	Part Description	Std. Pkg. Qty.
	In.	m			
Jumpers Pre-Terminated on Both Ends					
GJ672UH	72	1.83	Straight and 45°	One 72" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAWH-L and the other end with LCC6-14JAW-L.	1
GJ696UH	96	2.44		One 96" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAWH-L and the other end with LCC6-14JAW-L.	
GJ6120UH	120	3.05		One 120" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAWH-L and the other end with LCC6-14JAW-L.	
GJ6144UH	144	3.66		One 144" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAWH-L and the other end with LCC6-14JAW-L.	
GJ6168UH	168	4.27		One 168" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAWH-L and the other end with LCC6-14JAW-L.	
GJ6192UH	192	4.88		One 192" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAWH-L and the other end with LCC6-14JAW-L.	
GJ6216UH	216	5.49		One 216" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAWH-L and the other end with LCC6-14JAW-L.	
GJ6240UH	240	6.10		One 240" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAWH-L and the other end with LCC6-14JAW-L.	
GJ6264UH	264	6.71		One 264" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAWH-L and the other end with LCC6-14JAW-L.	
GJ6288UH	288	7.32		One 288" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAWH-L and the other end with LCC6-14JAW-L.	

PATENTED Bonding Cage Nuts

- Patented, creates an electrical bond between the mounting rails and equipment
- Conforms to EIA-310 specifications for racks and cabinets
- Made from high carbon steel
- Easily installed with a Phillips, flat blade, or nut screwdriver



Part Number	Part Description	Std. Pkg. Qty.
CNB4K	Green bonding cage nut, includes four #12-24 bonding cage nuts (.06 – .11 thick panel) and four #12-24 x 1/2" bonding screws with #2 Phillips/slotted combo hex head (use 5/16" or 8mm socket). Ideal for patch panel applications.	1
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).	

Thread-Forming Screws

- Thread-forming, provide a bond to the rack or cabinet by removing paint from threaded holes and minimizing metal shavings
- Easily installed with 5/16" (8mm) socket head wrench or flat blade screwdriver



Part Number	Part Description	Std. Pkg. Qty.
RGTS-CY	Thread-forming grounding screw, #12-24 x 1/2".	100
RGTSM6-C	Thread-forming grounding screw, M6 x 12mm.	
RGTS1032-C	Thread-forming grounding screw, #10-32 x 1/2".	
RGTSM5-C	Thread-forming grounding screw, M5 x 12mm.	

Paint Piercing Grounding Washer Kit

- Bonds frame members on bolt-together racks
- No paint scraping required
- Green color-coding to indicate bonding application
- Engineered to comply with US and International grounding requirements



Part Number	Part Description	Std. Pkg. Qty.
RGW-100-1Y	100 paint piercing bonding washers for 3/8" (M8) stud size; .875" (22.2mm) O.D.; provided with .16 oz. (5cc) of antioxidant.	1

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PATENTED

Retrofit Cabinet Grounding Kits

B. Copper Systems

C. Fiber Systems

- Provide a dedicated ground system to maintain system performance and protect network equipment when equipment is already installed
- Patented hardware incorporates paint piercing serrations to create a bond point between the cabinet rail, grounding busbar and lug; hardware never needs to be removed for new equipment installations
- Optimized for installation on 19" cabinets that meet EIA-310, with functioning equipment, and are deployed in the field
- Provides a complete system of matched components to save cost and labor
- Engineered to comply with US and International grounding requirements

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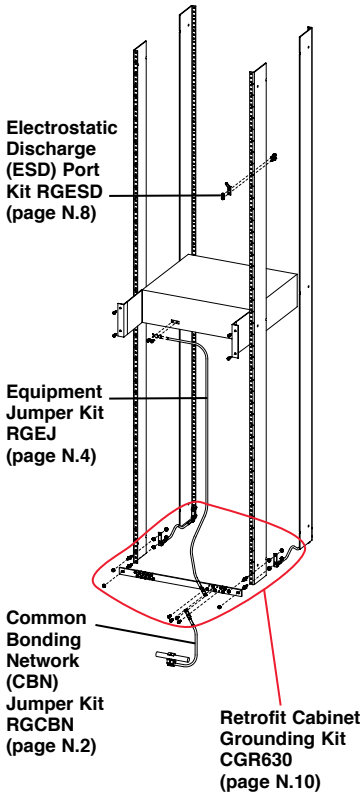
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CGR630UB

Part Number	Part Description	Std. Pkg. Qty.
CGR630U	Retrofit grounding kit for installation on cabinets with threaded #12-24 or M6 rail fasteners and rail depth up to 30" (.75m); includes one RGRB19U grounding busbar kit and one CGJ630U front to back rail jumper kit.	1
CGR630UB	Retrofit grounding kit for installation on cabinets with cage nut rail fasteners and rail depth up to 30" (.75m); includes one RGRB19U grounding busbar kit and one CGJ630UB front to back rail jumper kit.	1

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P1™ Network Component Label Cassettes for PanTher™ LS8E/LS8EQ Hand-Held Thermal Transfer Printers



- P1™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Fast loading label cassette includes both label material and ribbon to make changing labels easy
- Use for identifying patch panels, faceplates, punchdown blocks and other network systems hardware
- Die-cut labels designed to provide maximum aesthetic quality and appearance
- Available in adhesive polyolefin and non-adhesive polyester materials

Application Description	Typical Application Page	Code
Boxes – Surface Mount, Outlet, Hybrid	D.6	BX
Faceplates	D.1	FP
GP6™ PLUS Punchdown System	B.22 – B.24	GP
Jack Modules	B.7 – B.9	JM

Application Description	Typical Application Page	Code
110 Punchdown Blocks	B.22 – B.24	PB
Patch Panels	B.18 – B.21	PP
Racks and Cabinets	L.1	RK

Part Number	Part Description	Width		Height		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm		
C061X030FJC	White, adhesive polyolefin label, 500/cassette, 1-port identifier. Application codes: BX, FP, and PP.	0.61	15.5	0.30	7.6	1	10
C125X030FJC	White, adhesive polyolefin label, 200/cassette, 2-port identifier. Application codes: BX, FP, and PP.	1.25	31.8				
C138X019FJC	White, adhesive polyolefin label, 200/cassette, module identifier. Application code: JM.	1.38	35.1	0.19	4.8		
C150X030Y1C	White, non-adhesive polyester label, 75/cassette, 3-port identifier. Application code: FP.	1.50	38.1	0.30	7.6		
C188X030FJC	White, adhesive polyolefin label, 150/cassette, 3-port identifier. Application code: FP.	1.88	47.8				
C195X040Y1C	White, non-adhesive polyester label, 100/cassette, single-gang faceplate. Application code: FP.	1.95	49.5	0.40	10.2		
C200X100FJC	White, adhesive polyolefin label, 150/cassette, SLCT bundle marker identifier. Application codes: SL, RK.	2.00	50.8	1.00	25.4		
C252X030FJC	White, adhesive polyolefin label, 125/cassette, 4-port identifier. Application codes: BX, FP, and PP.	2.52	64.0	0.30	7.6		
C261X030FJC	White, adhesive polyolefin label, 125/cassette, 4-port identifier. Application codes: FP and PP.	2.61	66.3				
C261X035Y1C	White, non-adhesive polyester label, 75/cassette, 4-port identifier. Application codes: FP and PP.	2.82	71.6	0.35	8.9		
C282X030Y1C							
C288X040Y1C	White, non-adhesive polyester label, 75/cassette, double-gang faceplate. Application code: FP.	2.88	73.2	0.40	10.2		
C315X030FJC	White, adhesive polyolefin label, 100/cassette, 5-port identifier. Application code: FP.	3.15	80.0	0.30	7.6		
C379X030FJC	White, adhesive polyolefin label, 75/cassette, 6-port identifier. Application code: FP.	3.79	96.3				
C390X030Y1C	White, non-adhesive polyester label, 50/cassette, 6-port identifier. Application code: PP.	3.90	99.1				
C750X050Y1C	White, non-adhesive polyester label, 30/cassette, 110 block identifier. Application code: PB.	7.50	190.5	0.50	12.7		
C788X050Y1C	White, non-adhesive polyester label, 30/cassette, GP6™ Plus Punchdown System identifier. Application code: GP.	7.88	200.2				

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€ Tak-Ty® Hook & Loop Cable Ties

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



HLT (Loop Ties)



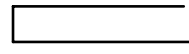
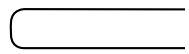
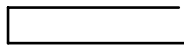
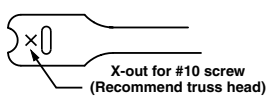
HLS (Strip Ties)



HLB (Stacked Strips)



HLM/HLS (Rolls)



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

Loop Ties – Slot allows for pre-wrapping of bundles

HLT2I-X0	8.00	203.0	0.50	12.7	1.91	49.0	40	178	10	100
HLT3I-X0	12.00	305.0			3.18	81.0				
HLT2I-M0	8.00	203.0	0.50	12.7	1.91	49.0	40	178	1	1
HLT3I-M0	12.00	305.0			3.18	81.0				

Strip Ties – Perforated in convenient 6", 12", and 18" strips

HLS1.5S-X0	6.00	152.0	0.75	19.1	1.50	38.0	50	222	10	100
HLS3S-X0	12.00	305.0			3.20	81.0				
HLS5S-X0	18.00	457.0			5.00	127.0				

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	1	10
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Part Number	Length		Width		Max. Bundle Dia.		Min. Loop Tensile Strength*		Std. Pkg. Qty.	Std. Ctn. Qty.
	Ft.	m	In.	mm	In.	mm	Lbs.	N		

15' and 75' Continuous Rolls – Can be cut to desired length, eliminating waste

HLM-15R0	15.0	4.6	0.33	8.4	Various	Various	18	80	1	10
HLS-15R0			0.75	19.1			50	222		
HLS-75R0	75.0	22.9	0.75	19.1	Various	Various	50	222	1	10

For color options, reference hook and loop cable ties chart, see page P.5.
*Note: Minimum 2" overlap required to achieve loop tensile rating.



Contour-Ty® Cable Ties – Nylon 6.6

- Unique design prevents wire and cable damage
- Low profile head avoids snags and reduces overall bundle size
- Outside teeth and smooth round edges protect cable jacket – ideal for high vibration applications

- Parallel-entry limits exposure to sharp edges and protects workers' arms/hands
- Fully enclosed head for consistent strength
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- UL Listed for use in plenum or air handling spaces per NEC



Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.*		Recommended Installation Tool	Bulk Pkg. Qty.	Bulk Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			

Miniature Cross Section – Plenum-Rated

CBR1M-M	4.1	104	0.098	2.5	0.038	1.0	1.00	25	18	80	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	50000
CBR1.5M-M	5.8	147			0.042	1.1	1.50	38					
CBR2M-M	7.3	185					2.00	51					

Intermediate Cross Section – Plenum-Rated

CBR1.5I-M	5.9	150	0.140	3.6	0.040	1.0	1.50	38	40	178	GTS-E, GS2B-E, PTS, PPTS, STS2	1000	25000
CBR3I-M	10.4	264			0.052	1.3	3.00	76					10000
CBR4I-M	13.6	345					3.60	102					

Standard Cross Section – Plenum-Rated

CBR2S-M	7.6	193	0.190	4.8	0.044	1.1	2.00	51	50	222	GTS-E, GTH-E, GS2B-E, GS4H-E, PTS, PTH, PPTS, STS2, STH2	1000	10000
CBR3S-M	10.8	274			0.052	1.3	3.00	76					5000
CBR4S-M	14.0	356					4.00	102					

Heavy-Standard Cross Section – Plenum-Rated

CBR2HS-D	8.0	203	0.250	6.4	0.058	1.4	2.00	51	85	378	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	500	5000
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Light-Heavy Cross Section – Plenum-Rated

CBR4LH-TL	14.6	371	0.300	7.6	0.070	1.8	7.60	102	120	534	GTH-E, GS4H-E, GS4EH-E, PTH, STH2, ST3EH	250	2500
CBR6LH-C	20.9	531					6.00	152				100	2000

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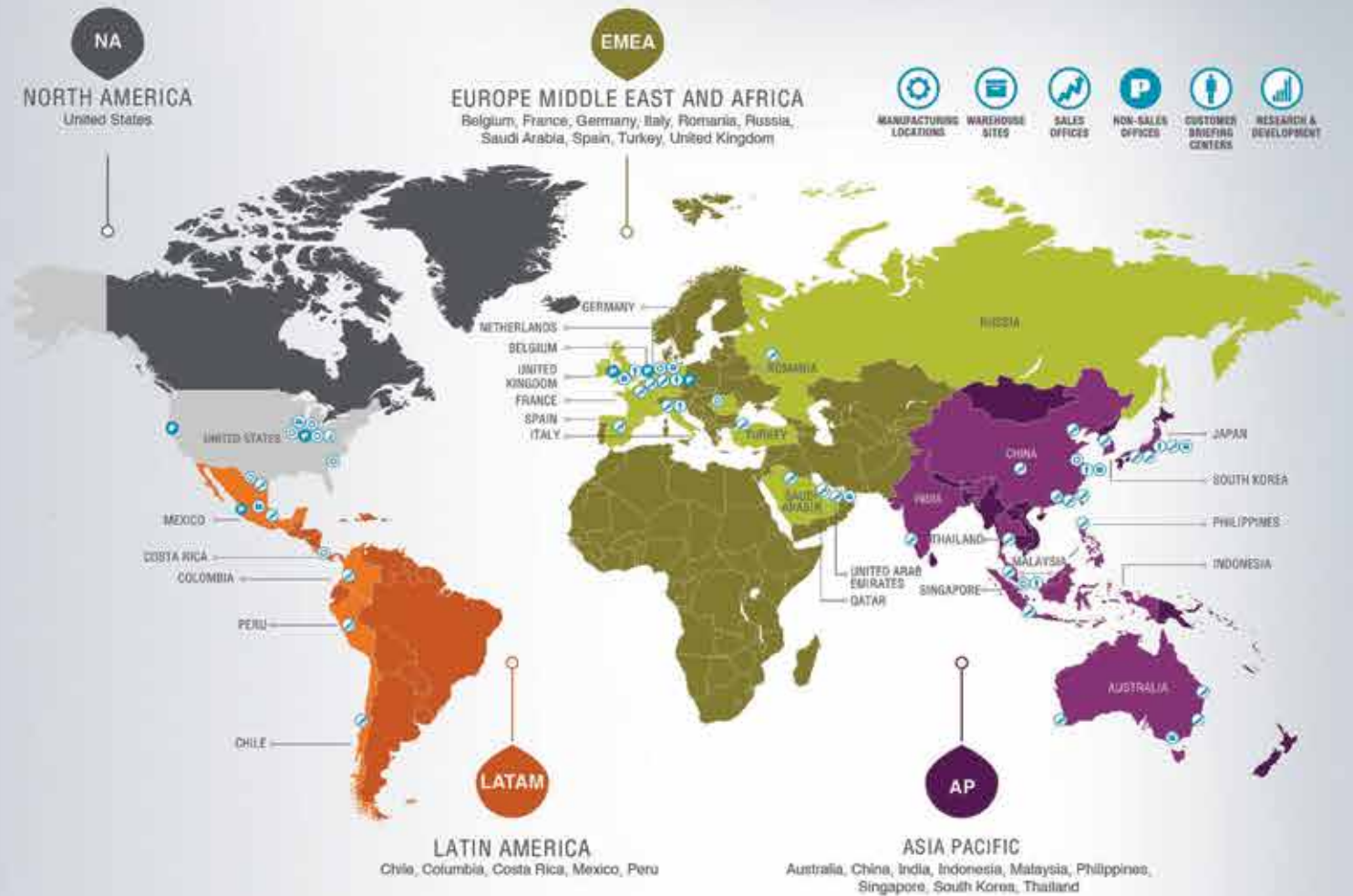
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