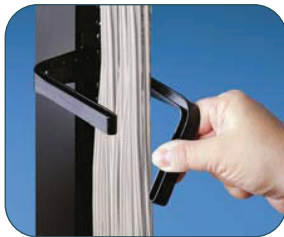## CABLE MANAGEMENT

Panduit offers a complete line of cable management products and accessories to route and secure cable. These products are an essential part of a clean, professional installation, which help improve quality and increase system performance.

- **Maintains bend radius control and cable performance while bundling and securing cable to prevent snags and stress from over bending**
- **Provides attractive installations and allows for easier moves, adds, and changes while reducing stress on cable**
- **Organizes cable in a variety of applications where depth is critical or space is limited**

Panduit solutions provide the options necessary to handle the most demanding installations while providing the flexibility to facilitate system upgrades now and in the future.

Cool Boot™ Raised Floor Assembly [PATENTED]

- Patented design with air tight fabric minimizes bypass of air through cutouts in the raised floor to decrease energy costs in hot aisle/cold aisle data center designs
- Ultra-Cinch™ Tie closes top of fabric to prevent air from escaping around cable bundles
- Electrostatic dissipative material provides a pathway to ground reducing the chance of damaging network equipment with electric shock
- Vertical Hook and Loop Cable Tie closure system allows for installation on existing cable bundles
- Horizontal Hook and Loop Cable Tie closure system allows two or more bundles to be separated in existing or new installations
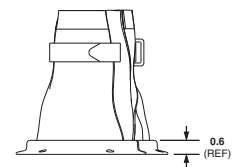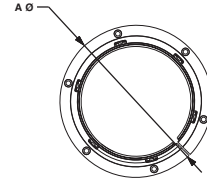
- Flexible polycarbonate outer ring houses fabric to allow user to secure product to raised floor tile; slit allows outer ring to flex so entire cable bundle can be inserted to allow for retrofit installations even when vertical cable managers are already in place
- Low profile polycarbonate outer ring allows compatibility with vertical cable managers
- Self-tapping #6 screws (included) allow a secure fastening method to top of raised floor tile that also provides a pathway to ground
- Color: Black polycarbonate outer ring with navy blue fabric
- Manufactured from flame retardant material

RFG*X*SMY

Surface Mount

Part Number	Material	Length In.	Length mm	Width In.	Width mm	Diameter In.	Diameter mm	Max. Bundle Diameter In.	Max. Bundle Diameter mm	Std. Pkg. Qty.	Std. Ctn. Qty.
Surface Mount											
RFG6X8SMY	Flame Retardant Electrostatic Dissipative Polycarbonate with an Electrostatic Dissipative Fabric	8.0	203.2	6.0	152.4	—	—	4.2 x 6.2	106.7 x 157.4	1	10
RFG8X8SMY	Flame Retardant Electrostatic Dissipative Polycarbonate with an Electrostatic Dissipative Fabric	8.0	203.2	8.0	203.2	—	—	6.2 x 6.2	157.4 x 157.4	1	10
RFG10X8SMY	Flame Retardant Electrostatic Dissipative Polycarbonate with an Electrostatic Dissipative Fabric	8.0	203.2	10.0	254.0	—	—	8.2 x 6.2	208.3 x 157.4	1	10
RFG12X4SMY	Flame Retardant Electrostatic Dissipative Polycarbonate with an Electrostatic Dissipative Fabric	4.0	101.6	12.0	304.8	—	—	10.2 x 2.2	259.1 x 55.9	1	10
RFG12X8SMY	Flame Retardant Electrostatic Dissipative Polycarbonate with an Electrostatic Dissipative Fabric	8.0	203.2	12.0	304.8	—	—	10.2 x 6.2	259.1 x 157.4	1	10
RFG3DSMY	Flame Retardant Electrostatic Dissipative Polycarbonate with an Electrostatic Dissipative Fabric	—	—	—	—	4.5	114.3	2.7	68.6	1	10
RFG5DSMY	Flame Retardant Electrostatic Dissipative Polycarbonate with an Electrostatic Dissipative Fabric	—	—	—	—	6.5	165.1	4.7	119.4	1	10

Product complies with Article 645 Section 5(D)(4) of the 2005 National Electrical Code.
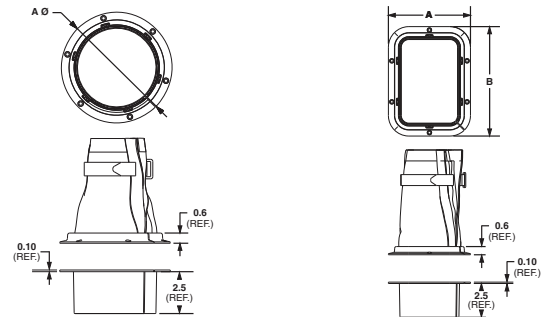Compatible with NetRunner™ and PatchRunner™ Cable Managers, and Panduit Net-Access™ and NetServ™ Cabinets to create a complete cable management system.
*Integral products include a flexible sub-grommet to prevent damage to cable from sharp edges of cut floor tile.

Cool Boot™ Raised Floor Assembly (continued)

RFG*X*Y

Integral Mount

Part Number	Material	Length In.	Length mm	Width In.	Width mm	Diameter In.	Diameter mm	Max. Bundle Diameter In.	Max. Bundle Diameter mm	Std. Pkg. Qty.	Std. Ctn. Qty.
Integral Mount*											
RFG6X8Y	Flame Retardant Electrostatic Dissipative Polycarbonate with an Electrostatic Dissipative Fabric and Thermoplastic Elastomer	8.0	203.2	6.0	152.4	—	—	4.2 x 6.2	106.7 x 157.4	1	10
RFG8X8Y	Flame Retardant Electrostatic Dissipative Polycarbonate with an Electrostatic Dissipative Fabric and Thermoplastic Elastomer	8.0	203.2	8.0	203.2	—	—	6.2 x 6.2	157.4 x 157.4	1	10
RFG10X8Y	Flame Retardant Electrostatic Dissipative Polycarbonate with an Electrostatic Dissipative Fabric and Thermoplastic Elastomer	8.0	203.2	10.0	254.0	—	—	8.2 x 6.2	208.3 x 157.4	1	10
RFG12X4Y	Flame Retardant Electrostatic Dissipative Polycarbonate with an Electrostatic Dissipative Fabric and Thermoplastic Elastomer	4.0	101.6	12.0	304.8	—	—	10.2 x 2.2	259.1 x 55.9	1	10
RFG12X8Y	Flame Retardant Electrostatic Dissipative Polycarbonate with an Electrostatic Dissipative Fabric and Thermoplastic Elastomer	8.0	203.2	12.0	304.8	—	—	10.2 x 6.2	259.1 x 157.4	1	10
RFG3DY	Flame Retardant Electrostatic Dissipative Polycarbonate with an Electrostatic Dissipative Fabric and Thermoplastic Elastomer	—	—	—	—	4.5	114.3	3.0	68.6	1	10
RFG5DY	Flame Retardant Electrostatic Dissipative Polycarbonate with an Electrostatic Dissipative Fabric and Thermoplastic Elastomer	—	—	—	—	6.5	165.1	4.7	119.4	1	10

Product complies with Article 645 Section 5(D)(4) of the 2005 National Electrical Code.
Compatible with NetRunner™ and PatchRunner™ Cable Managers, and Panduit Net-Access™ and NetServ™ Cabinets to create a complete cable management system.
*Integral products include a flexible sub-grommet to prevent damage to cable from sharp edges of cut floor tile.

J-Pro™ Cable Support System *PATENTED*

C UL US LISTED

- Patented design provides complete horizontal and vertical 1" (25.4mm) bend radius control that helps prevent degradation of cable performance
- UL 2043 and CAN/ULC S102.2 listed and suitable for use in air handling spaces
- Pre-riveted assemblies allow for attachment to walls, ceilings, beams, threaded rods, drop wires and underfloor supports to meet requirements of a variety of applications

- Wide cable support base prevents pinch points that could cause damage to cables
- Cable tie channel allows user to easily install 3/4" Tak-Ty® Cable Ties to retain cable bundle
- Durable non-metallic J Hook materials provide the ability to manage and support a large number of cables
- Standard product is black. For color options see page C4.7

JP2W-L20

JP2WP-L20

JP2CM-L20

JP2DW-L20

Part Number*	Part Description	Max. Bundle Capacity		Max. Cable Capacity			Std. Pkg. Qty.
		In.	mm	Cat. 6A (.310")	Cat. 6 (.236")	Cat. 5e (.193")	
Wall Mount							
JP75W-L20	J Hook for wall mount applications. One 1/4" (M6) mounting hole for user supplied screw.	0.75	19.0	4	8	12	50
JP131W-L20		1.31	33.3	14	28	40	50
JP2W-L20		2.00	50.8	30	50	70	50
JP4W-X20		4.00	101.6	115	210	280	10
Wall Mount with Bracket							
JP75WP-L20	J Hook for powder actuated installation on walls. One 5/32" (M4) mounting hole for user supplied fasteners.	0.75	19.0	4	8	12	50
JP131WP-L20		1.31	33.3	14	28	40	50
JP2WP-L20		2.00	50.8	30	50	70	50
JP4WP-X20		4.00	101.6	115	210	280	10
Ceiling Mount							
JP75CM-L20	J Hook with ceiling mount bracket that has one 3/16" (M5), 1/4" (M6), and 3/8" (M10) mounting hole.	0.75	19.0	4	8	12	50
JP131CM-L20		1.31	33.3	14	28	40	50
JP2CM-L20		2.00	50.8	30	50	70	50
JP4CM-X20		4.00	101.6	115	210	280	10
Drop Wire and Threaded Rod Clip							
JP75DW-L20	J Hook with clip for use with #12 wire, threaded rod up to 1/4" (6.4mm) in diameter, or 1/8" – 1/4" (3.2mm – 6.4mm) thick flanges.	0.75	19.0	4	8	12	50
JP131DW-L20		1.31	33.3	14	28	40	50
JP2DW-L20		2.00	50.8	30	50	70	50

*Suitable for use in air handling spaces in accordance with Sec. 300-22(c) and (d) of the National Electrical Code. JP4 family of parts suitable for use in single unit configurations. Listed in accordance with CAN/ULC S102.2 when mounted as single units or in pairs. Minimum spacing of 4' (1220mm) required between mount points. (Flame spread rating = 0, Smoke developed classification = 30)

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

JP2SBC50R-L20

JP2SBC50-L20

JP2SBC87-L20

JP2SBC87R-L20

JP2HBC25R-L20
JP2HBC50R-L20
JP2HBC75R-L20

J-Pro™ Cable Support System (continued)

Part Number*	Part Description	Max. Bundle Capacity		Max. Cable Capacity			Std. Pkg. Qty.
		In.	mm	Cat 6A (.310")	Cat 6 (.236")	Cat 5e (.193")	
Screw-On Beam Clamps							
JP75SBC50-L20	J Hook with screw-on beam clamp for use with flanges up to 1/2" (12.7mm) thick.	0.75	19.0	4	8	12	50
JP131SBC50-L20		1.31	33.3	14	28	40	50
JP2SBC50-L20		2.00	50.8	30	50	70	50
JP4SBC50-X20		4.00	101.6	115	210	280	10
JP75SBC50R-L20	J Hook with screw-on beam clamp for use with flanges up to 1/2" (12.7mm) thick. Rotates 360 degrees.	0.75	19.0	4	8	12	50
JP131SBC50R-L20		1.31	33.3	14	28	40	50
JP2SBC50R-L20		2.00	50.8	30	50	70	50
JP4SBC50R-X20		4.00	101.6	115	210	280	10
JP75SBC87-L20	J Hook with screw-on beam clamp for use with flanges up to 3/4" (19.1mm) thick.	0.75	19.0	4	8	12	50
JP131SBC87-L20		1.31	33.3	14	28	40	50
JP2SBC87-L20		2.00	50.8	30	50	70	50
JP4SBC87-X20		4.00	101.6	115	210	280	10
JP75SBC87R-L20		0.75	19.0	4	8	12	50
JP131SBC87R-L20		1.31	33.3	14	28	40	50
JP2SBC87R-L20		2.00	50.8	30	50	70	50
JP4SBC87R-X20		4.00	101.6	115	210	280	10
Hammer-On Beam Clamps							
JP75HBC25R-L20	J Hook with hammer-on beam clamp for use with flanges 1/8" – 1/4" (3.2mm – 6.4mm) thick. Rotates 360 degrees.	0.75	19.0	4	8	12	50
JP131HBC25R-L20		1.31	33.3	14	28	40	50
JP2HBC25R-L20		2.00	50.8	30	50	70	50
JP4HBC25R-X20		4.00	101.6	115	210	280	10
JP75HBC50R-L20	J Hook with hammer-on beam clamp for use with flanges 5/16" – 1/2" (7.9mm – 12.7mm) thick. Rotates 360 degrees.	0.75	19.0	4	8	12	50
JP131HBC50R-L20		1.31	33.3	14	28	40	50
JP2HBC50R-L20		2.00	50.8	30	50	70	50
JP4HBC50R-X20		4.00	101.6	115	210	280	10
JP75HBC75R-L20	J Hook with hammer-on beam clamp for use with flanges 9/16" – 3/4" (14.3mm – 19.1mm) thick. Rotates 360 degrees.	0.75	19.0	4	8	12	50
JP131HBC75R-L20		1.31	33.3	14	28	40	50
JP2HBC75R-L20		2.00	50.8	30	50	70	50
JP4HBC75R-X20		4.0	101.6	115	210	280	10

*Suitable for use in air handling spaces in accordance with Sec. 300-22(c) and (d) of the National Electrical Code. JP4 family of parts suitable for use in single unit configurations. Listed in accordance with CAN/ULC S102.2 when mounted as single units or in pairs. Minimum spacing of 4' (1220mm) required between mount points. (Flame spread rating = 0, Smoke developed classification = 30)

A. System Overview

B1. Cable Ties

B2. Cable Accessories

B3. Stainless Steel Ties

C1. Wiring Duct

C2. Surface Raceway

C3. Abrasion Protection

C4. Cable Management

D1. Terminals

D2. Power Connectors

D3. Grounding Connectors

E1. Labeling Systems

E2. Labels

E3. Pre-Printed & Write-On Markers

E4. Permanent Identification

E5. Lockout/ Tagout & Safety Solutions

F. Index

J-Pro™ Cable Support System (continued)

JP2ZP-L20

JP2CP-L20

JP2UF100-L20

Part Number*	Part Description	Max. Bundle Capacity		Max. Cable Capacity			Std. Pkg. Qty.
		In.	mm	Cat. 6A (.310")	Cat. 6 (.236")	Cat. 5e (.193")	
Z-Purlin Clips							
JP75ZP-L20	J Hook with z-purlin clip for use with angled flanges up to 1/4" (6.4mm) thick.	0.75	19.0	4	8	12	50
JP131ZP-L20		1.31	33.3	14	28	40	50
JP2ZP-L20		2.00	50.8	30	50	70	50
JP4ZP-X20		4.00	101.6	115	210	280	10
C-Purlin Clips							
JP75CP-L20	J Hook with c-purlin clip for use with vertical flanges up to 1/4" (6.4mm) thick.	0.75	19.0	4	8	12	50
JP131CP-L20		1.31	33.3	14	28	40	50
JP2CP-L20		2.00	50.8	30	50	70	50
JP4CP-X20		4.00	101.6	115	210	280	10
Underfloor Pedestal Support Clamp							
JP75UF100-L20	J Hook with underfloor clamp for use with pedestal support 7/8" square or 1 1/8" – 1 3/8" in diameter.	0.75	19.0	4	8	12	50
JP131UF100-L20		1.31	33.3	14	28	40	50
JP2UF100-L20		2.00	50.8	30	50	70	50
JP4UF100-X20		4.00	101.6	115	210	280	10

*Suitable for use in air handling spaces in accordance with Sec. 300-22(c) and (d) of the National Electrical Code. JP4 family of parts suitable for use in single unit configurations. Listed in accordance with CAN/ULC S102.2 when mounted as single units or in pairs. Minimum spacing of 4' (1220mm) required between mount points. (Flame spread rating = 0, Smoke developed classification = 30)

Color Selection Guide

Base Part Number	Black	Red	Blue	White	Green	Orange
JP75W	-L20	-L2			-L5	-L3
JP75WP	-L20	-L2				
JP75CM	-L20	-L2				
JP75DW	-L20	-L2	-L6			
JP75ZP	-L20					
JP75CP	-L20					
JP75SBC50	-L20					
JP75SBC87	-L20					
JP75SBC50R	-L20	-L2		-L		
JP75SBC87R	-L20					
JP75HBC25R	-L20					
JP75HBC50R	-L20	-L2		-L		
JP75HBC75R	-L20					
JP75UF100	-L20					
JP131W	-L20		-L6		-L5	-L3
JP131WP	-L20					
JP131CM	-L20					
JP131DW	-L20		-L6			
JP131ZP	-L20					
JP131CP	-L20					
JP131SBC50	-L20					
JP131SBC87	-L20					
JP131SBC50R	-L20	-L2		-L		
JP131SBC87R	-L20					
JP131HBC25R	-L20					
JP131HBC50R	-L20	-L2		-L		
JP131HBC75R	-L20					
JP131UF100	-L20					
JP2W	-L20	-L2	-L6	-L	-L5	-L3
JP2WP	-L20		-L6			
JP2CM	-L20	-L2				
JP2DW	-L20	-L2	-L6	-L		
JP2ZP	-L20					
JP2CP	-L20					
JP2SBC50	-L20			-L		
JP2SBC87	-L20					
JP2SBC50R	-L20	-L2		-L		
JP2SBC87R	-L20	-L2				
JP2HBC25R	-L20					
JP2HBC50R	-L20	-L2		-L		
JP2HBC75R	-L20					
JP2UF100	-L20					
JP4W	-X20	-X2	-X6	-X		
JP4WP	-X20	-X2	-X6	-X		
JP4CM	-X20					
JP4ZP	-X20					
JP4CP	-X20					
JP4SBC50	-X20			-X		
JP4SBC87	-X20					
JP4SBC50R	-X20	-X2		-X		
JP4SBC87R	-X20					
JP4HBC25R	-X20					
JP4HBC50R	-X20	-X2		-X		
JP4HBC75R	-X20					
JP4UF100	-X20					

## J-Mod® Cable Support System PATENTED

- Modular design allows flexibility to assemble system in multiple configurations
- Unique chaining bracket design creates a strong metal backbone and allows expansion of the system without disturbance of an existing installation

- Brackets allow for attachment to ceilings, beams, threaded rods and drop wires to meet requirements of a variety of applications
- Manufactured from materials that meet UL 2043 and are suitable for use in air handling spaces
- Complete horizontal and vertical 1" bend radius control
- Cables do not come in contact with metal
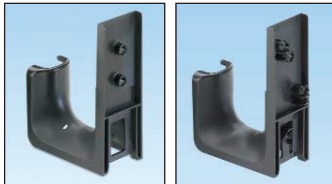
JMJH2W-X20

JMJH2-X20
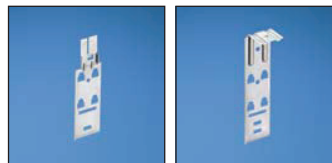
JMCB-X

JMCMB25-1-X

JMCMB25-3-X
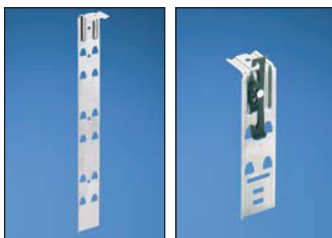
JMDWB-1-X
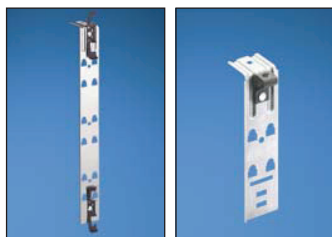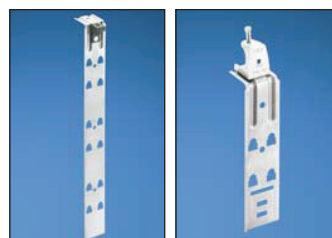
JMDWB-3-X

JMTRB38-1-X

JMTRB38-3-X

JMSBCB87-1-X

JMSBCB87-3-X

Part Number	Part Description	Material*	Std. Pkg. Qty.	Std. Ctn. Qty.
J Hook with Maximum 2" Bundle Capacity				
JMJH2W-X20*	J Hook for wall mount applications only. Two 1/4" (M6) mounting holes for user supplied screws.	Nylon 6.6	10	50
JMJH2-X20*	J Hook with snap lock attachments for use with all brackets listed below.	Nylon 6.6	10	50
Chaining Bracket				
JMCB-X	Chaining bracket to extend J-Mod® capacity one level. Capacity: three levels maximum. For use with all single-level mounting brackets listed below.	Zinc Plated Steel	10	50
Ceiling Mount Brackets				
JMCMB25-1-X	Single-level ceiling mount bracket with one 1/4" (M6) mounting hole.	Galvanized Steel	10	50
JMCMB25-3-X**	Three-level ceiling mount bracket with one 1/4" (M6) mounting hole. Maximum capacity of six J Hooks.	Galvanized Steel	10	50
Drop Wire Brackets				
JMDWB-1-X	Single-level drop wire bracket. Attaches to #12 wire or 1/4" (6.4mm) plain rod. Maximum capacity of one J Hook per level.	Galvanized Steel with Metal Attachments	10	50
JMDWB-3-X**	Three-level drop wire bracket. Attaches to #12 wire or 1/4" (6.4mm) plain rod. Maximum capacity of one J Hook for each of three levels. Maximum static load of 40 pounds.	Galvanized Steel with Metal Attachments	10	50
Threaded Rod Brackets				
JMTRB38-1-X	Single-level threaded rod bracket. Accepts 1/4" – 3/8" (6.4mm – 9.5mm) threaded rod.	Galvanized Steel with Metal Attachments	10	50
JMTRB38-3-X**	Three-level threaded rod bracket. Accepts 1/4" – 3/8" (6.4mm – 9.5mm) threaded rod. Maximum capacity of six J Hooks.	Galvanized Steel with Metal Attachments	10	50
Screw-On Beam Clamp Brackets				
JMSBCB87-1-X	Single-level screw-on beam clamp bracket for use with flanges up to 3/4" (19.1mm) thick.	Galvanized Steel with Metal Attachments	10	50
JMSBCB87-3-X**	Three-level screw-on beam clamp bracket for use with flanges up to 3/4" (19.1mm) thick. Maximum capacity of six J Hooks.	Galvanized Steel with Metal Attachments	10	50

*Suitable for use in air handling spaces and listed in accordance with UL 2043 and CAN/ULC S102.2 when mounted as single units or in pairs. Maximum spacing of 4' (1220mm) required between mount points. (Flame Spread Rating = 0, Smoke Developed Classification = 30)
**Not for use with chaining brackets.

	Maximum Cable Capacity		
	Cat. 6A (.310")	Cat. 6 (.236")	Cat. 5e (.193")
JMJH2W or JMJH2	30	50	70

Bridle Rings and Fastening Clip

- Multiple diameters, thread sizes, and configurations
- Threaded and non-threaded sizes are compatible with spring steel clip (BR-MPCL) clamp providing a solid securing point for the bridle ring
- Other unique labor saving assemblies differentiate from competition – including pre-assemblies with powder actuated fasteners, toggle wings, and clearance holes for user supplied fasteners
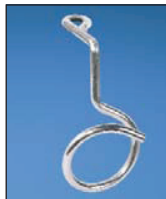

Non-Threaded #8 Wire

Threaded

Wood Screw Thread

**Power Actuated Fastener**

**User Supplied Nail or Fastener**

Integrated Toggle Screw

Part Number	Part Description	Std. Pkg. Qty.
Bridle Rings		
BR-.50	Bridle ring, .50" dia., non-threaded #8 wire (.162).	100
BR-.75	Bridle ring, .75" dia., non-threaded #8 wire (.162).	100
BR-1.25	Bridle ring, 1.25" dia., non-threaded #8 wire (.162).	100
BR-2.0	Bridle ring, 2.00" dia., non-threaded #8 wire (.162).	100
BR-.50-10-24	Bridle ring, .50" dia., 10 – 24 threaded.	100
BR-.75-10-24	Bridle ring, .75" dia., 10 – 24 threaded.	100
BR-1.25-10-24	Bridle ring, 1.25" dia., 10 – 24 threaded.	100
BR-2.0-10-24	Bridle ring, 2.00" dia., 10 – 24 threaded.	100
BR-1.25-1/4-20	Bridle ring, 1.25" dia., 1/4 – 20 threaded.	100
BR-2.0-1/4-20	Bridle ring, 2.00" dia., 1/4 – 20 threaded.	100
BR-4.0-1/4-20	Bridle ring, 4.00" dia., 1/4 – 20 threaded.	50
BR-1.25-14WS	Bridle ring, 1.25" dia., 16 wood screw thread.	100
BR-2.0-14WS	Bridle ring, 2.00" dia., 16 wood screw thread.	100
BR-1.5-PAF	Bridle ring, 1.50" dia., with powder actuated fastener.	50
BR-2.0-PAF	Bridle ring, 2.00" (50.8mm) dia., with powder actuated fastener.	50
BR-1.5-SN	Bridle ring, 1.50" dia., user supplied nail or fastener.	100
BR-2.0-SN	Bridle ring, 2.00" dia., user supplied nail or fastener.	100
BR-1.5-TW	Bridle ring, 1.50" dia., with integrated toggle screw.	25
BR-2.0-TW	Bridle ring, 2.00" dia., with integrated toggle screw.	25
General Purpose Clip		
BR-MPCL	Multi-purpose clip; accommodates beam flange from 1/8" to 1/2", standard 1/4 – 20 or #10 – 24 threaded bridle rings, standard drive rings, as well as non-threaded #8 wire bridle rings.	100

Low Voltage Mounting Brackets

- Choose design styles for new install or retrofit install
- Available in both single and double gang configurations
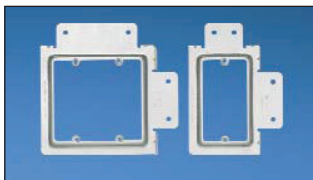
New Install
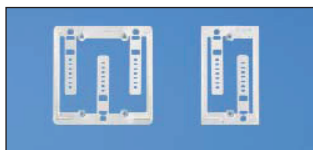
Retrofit Install

Part Number	Part Description	Std. Pkg. Qty.
LV-S-1G	Low voltage integral mounting bracket for new installations, single gang stud bracket.	25
LV-S-2G	Low voltage integral mounting bracket for new installations, double gang stud bracket.	25
LV-W-1G	Low voltage mounting bracket for retrofit installations; single gang box with screws; suitable for wall material thicknesses of 1/2" to 1 1/2".	100
LV-W-2G	Low voltage mounting bracket for retrofit installations; double gang box with screws; suitable for wall material thicknesses of 1/2" to 1 1/2".	50

A. System Overview

B1. Cable Ties

B2. Cable Accessories

B3. Stainless Steel Ties

C1. Wiring Duct

C2. Surface Raceway

C3. Abrasion Protection

C4. Cable Management

D1. Terminals

D2. Power Connectors

D3. Grounding Connectors

E1. Labeling Systems

E2. Labels

E3. Pre-Printed & Write-On Markers

E4. Permanent Identification

E5. Lockout/ Tagout & Safety Solutions

F. Index

Metal Stud Accessories

- Metal stud grommets and cable support manager support and protect cable within the building structure

- Metal Stud Punching Tool punches a 1-11/32" (34.1mm) round hole in 25 GA. min. to 20 GA max. mild steel studs; contoured handle; lightweight aluminum head; automatic hole centering on standard width (3.625") studs; replaceable punch and dies; self-stripping design that eliminates punch hang-ups
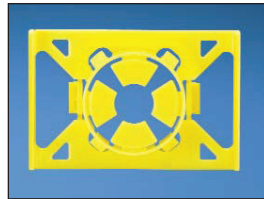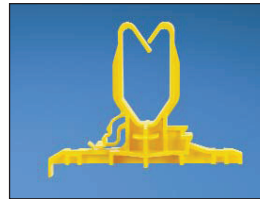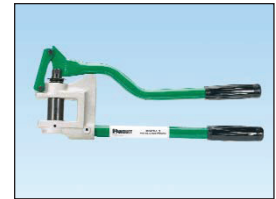

| MSG-1.3-C | MSGV-1.3-C | CSM-1.25-C | MSPT-1.3 |

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
MSG-1.3-C	Metal stud grommet, 1-11/32" hole.	100	1000
MSGV-1.3-C	Metal stud grommet, 1-11/32" hole, anti-vibration for 1/2" to 1" pipe.	100	1000
CSM-1.25-C	Cable stud manager for 1.25" cable spacing.	100	1000
MSPT-1.3	Metal stud punch tool with contoured handle for increased leverage.	1	—

c(UL)us LISTED Conduit Waterfall PATENTED

- Helps prevent pinch points and over bending that could cause damage to cable
- Suitable for use in air handling spaces per UL 2043
- UL listed per UL 1565
- Able to manage and support a large capacity of cables
- Easy and fast to install reducing labor cost

- Unique patented design allows for use in both new and retrofit applications
- Allows user to install 3/4" Tak-Ty® Cable Ties to provide a method to retain and manage the cable bundle
- Material: Black nylon meets UL 94V-0 specifications

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CWF400	Provides bend radius control for cables entering/exiting 4" EMT conduit. Secure to conduit without tools utilizing integral thumb screw and captive nut.	1	10

Order number of pieces required, in multiples of Standard Package Quantity.   Prime items appear in **BOLD**.

Waterfall Accessories `PATENTED`

- Patented bend radius control product
- Product available as a kit (includes base, two wings, and cable ties) or purchased separately
- Easy to install waterfall kit maintains bend radius control in both vertical and horizontal directions to provide a TIA/EIA-568-B compliant installation

- Base attaches to either the rung or stringer on most standard ladder racks for a variety of installations/configurations
- Modular components allow user to custom configure each location where cable management is required
- Material: Black Glass-Filled Nylon 6.6 meets UL 94V-0 specifications

CMW-KIT

CMWB

CMWW

Part Number	Part Description	Color*	Std. Pkg. Qty.	Std. Ctn. Qty.
CMW-KIT	Cable management waterfall kit. Provides bend radius control when transferring cables from standard ladder rack. Kit includes CMWB, two CMWW, and cable ties.	Black	1	10
CMWB	Cable management waterfall base. Used to maintain 1.75" bend radius control vertically when transferring cable off of ladder rack. Mounts to ladder rack rung or stringer with standard cross section cable ties (included).		1	10
CMWW	Cable management waterfall wing. Used in conjunction with CMWB to maintain 1.00" bend radius control horizontally when transferring cable off ladder rack.		1	10

*For white, include suffix of 10. For example: CMW-KIT10.

Double Waterfall Accessory

- Double waterfall base attaches to the rung on most standard ladder racks to allow bend radius control for cables coming from either direction
- UL 94V-0 Rated Material

- Easy to install double waterfall base maintains bend radius control in a vertical direction to provide a TIA/EIA-568-B compliant installation

Part Number	Part Description	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
CMW2B	Cable management double waterfall base. Used to maintain 1.75" bend radius control vertically when transferring cable off either side of ladder rack rung. Mounts to ladder rack rung with standard cross section cable ties (included).	Black	1	10

Stackable Cable Rack Spacers   PATENTED

- Patented ladder rack accessories
- Separate and support cable and prevent pinch points between the bottom row of cable and the rung as a result of the weight of multiple cable layers applied on top of each other
- Mount to ladder rack with standard cross section cable ties

- Maximize rack space by stacking products for maximum cable capacity
- Provide an alternative to lacing cord by allowing user to secure cable to spacer to prevent movement of cable
- Color: Black

CRS6-X

CRS1-X

CRS4-125-X

CRS1-125-X

Part Number	Part Description	Width		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm		
CRS6-X	Six space stackable cable rack spacer. Accepts cable up to .80" diameter.	5.25	133.4	10	100
CRS1-X	One space stackable cable rack spacer. Use with CRS6 to fill width of ladder rack. Accepts cable up to .80" diameter.	1.13	28.58	10	100
CRS4-125-X	Four space stackable cable rack spacer. Accepts cable up to 1.25" diameter.	5.24	133.1	10	100
CRS1-125-X	One space stackable cable rack spacer. Use with CRS4 to fill width of ladder rack. Accepts cable up to 1.25" diameter.	1.55	39.4	10	100

Threaded Rod Cover

- Protects cable from abrasion caused by contact with threaded rod
- Material meets UL 94V-0 specifications
- Available in 18" lengths

- Accept 1/2" to 5/8" threaded rod
- For indoor use only
- Material: Gray or Black Polyethylene

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
TRC18FR-X8Y	Used to protect cabling from threaded rod. Flexible material with vertical slit allows easy installation. Gray.	10	100
TRC18FR-X20Y	Used to protect cabling from threaded rod. Flexible material with vertical slit allows easy installation. Black.	10	100

Order number of pieces required, in multiples of Standard Package Quantity.   Prime items appear in **BOLD**.

Vertical D-Rings PATENTED

- Patented cable manager ring
- Standard EIA hole spacing allows product to be mounted to any standard rack
- Flexible material allows arm to rotate so entire cable bundle can be inserted and removed
- 1/4" mounting holes allow for a variety of screws to secure the D-ring to a surface
- Material: Black Polycarbonate

CMVDR1   CMVDR1S

CMVDR2   CMVDR2S

CMVDRC

Part Number	Part Description	Fiber	ScTP	UTP	Std. Pkg. Qty.	Std. Ctn. Qty.
CMVDR1	Vertical D-ring. Outside dimensions 5.70"L x 2.00"W.	252	48	96	1	10
CMVDR1S	Vertical D-ring. Outside dimensions 3.30"L x 2.00"W.	132	32	52	1	10
CMVDR2	Vertical D-ring. Outside dimensions 5.70"L x 3.00"W.	504	96	192	1	10
CMVDR2S	Vertical D-ring. Outside dimensions 3.30"L x 3.00"W.	252	48	96	1	10
CMVDRC	Center mounted vertical D-ring for routing cables between two adjacent racks. Requires 8.25" spacing between the center lines of the adjacent rack's mounting holes. Outside dimensions 5.60"L x 8.00"W.	1000	200	400	1	10

All product color is black.

Tak-Ty® Hook & Loop Cable Tie Mounts

- For use with hook and loop cable ties, see page B1.87, B1.88
- Unique cradle design provides maximum stability for cable bundle
- For indoor use only
- Dimensions: 1.10"L x 1.12"W x 0.34"H (27.9mm x 28.4mm x 8.6mm)

1.10 (2.80)   .142 (3.6)   1.12 (28.5)   .34 (8.4)   .68 (17.3)   .87 (22.1)   .11 (2.8)
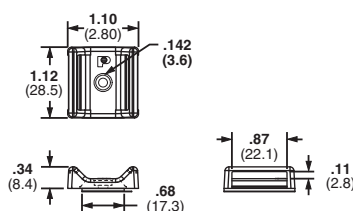
Part Number	Used with Cable Ties‡	Material	Color	Max. Static Load		Mounting Method*	Std. Pkg. Qty.	Std. Ctn. Qty.
				Lbs.	g			
ABMT-A-C	HLS, HLT, TTS, UCT	Nylon 6.6	Natural	0.38	174	Pre-installed Rubber Adhesive	100	1000
ABMT-A-C20			Black				100	1000
ABMT-S6-C			Natural	—	—	#6 (M3) Screw	100	1000
ABMT-S6-C20			Black				100	1000
ABMT-S6-C60		Flame Retardant Nylon 6.6	Black				100	1000
ABMT-S6-C69			Natural				100	1000

‡Cable tie cross section sizes: HLT = Tak-Ty™ Hook & Loop Ties, HLS = Tak-Ty™ Hook & Loop Strip Tie, TTS = Tak-Tape™ Roll, UCT = Ultra-Cinch™ Tie.
*For proper selection of adhesives see page B2.53.

Flat Pan-Post™ Standoffs

- Standard EIA hole spacing allows product to be mounted with user supplied screws up to 1/4" diameter
- Organize cables in standard cabinets and racks
- Mounting method: 1/4" (M6) screw
- Use where space is limited
- For indoor use only

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PPF2S-S25-V	Nylon 6.6 flat Pan-Post™ Standoff. Use with miniature, intermediate, and standard cross section cable ties. Dimensions 5.42"L x 1.50"H x 0.19"W (137.7mm x 38.1mm x 4.8mm).	5	100
PPF2S-S25-V69	Flame retardant nylon 6.6 flat Pan-Post™ Standoff. Use with miniature, intermediate, and standard cross section cable ties. Material meets UL 94V-0 specifications. Dimensions 5.42"L x 1.50"H x 0.19"W (137.7mm x 38.1mm x 4.8mm).	5	100
PPF2SV-S25-V	Nylon 6.6 flat Pan-Post™ Standoff. Use with Tak-Ty® Hook & Loop Cable Ties. Dimensions 5.60"L x 1.62"H x 0.19"W (142.2mm x 41.3mm x 4.8mm).	5	100
PPF2SV-S25-V69	Flame retardant nylon 6.6 flat Pan-Post™ Standoff. Use with Tak-Ty® Hook & Loop Cable Ties. Material meets UL 94V-0 specifications. Dimensions 5.60"L x 1.62"H x 0.19"W (142.2mm x 41.3mm x 4.8mm).	5	100

Communication Cable Management Kit for Cabinets

- Kit of cable management accessories specifically designed for use in a network cabinet or enclosure

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CCMKIT1	Kit includes the following: 1 roll 15' (4.6m) length .33" (8.4mm) Tak-Ty® Cable Ties 24 nylon cable ties 12 adhesive backed cable tie mounts 6 push style cable tie mounts 4 vertical wire saddles 8 flat Pan-Post™ Standoffs for use with std. nylon cable ties	1	100
CCMKIT2	Kit includes the following: 1 roll 15' (4.6m) length .75" (19.1mm) Tak-Ty® Cable Ties 12 nylon cable ties 6 adhesive backed cable tie mounts 6 adhesive backed mounts for .75" (19.1mm) Tak-Ty® Cable Ties 6 screw mounts for .75" (19.1mm) Tak-Ty® Cable Ties 4 vertical wire saddles 6 flat Pan-Post™ Standoffs for use with .75" (19.1mm) Tak-Ty® Cable Ties	1	100

Order the number of kits required.