

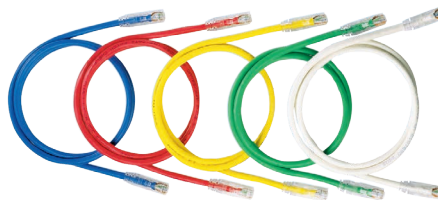
NetKey® Category 6 UTP Patch Cords

PANDUIT®

DATA SHEET

specifications

Category 6/Class E patch cords are constructed of UTP 24 AWG stranded copper cable and a modular plug at each end. Patch cords are used in all work area outlets and patch panels. Patch cords are wired to be compatible with both T568A and T568B wiring schemes.



technical information

Category 6/Class E performance:	Exceeds ANSI/TIA-568.2-D Category 6 and ISO 11801 Class E channel requirements at swept frequencies up to 250 MHz Meets ANSI/TIA-568.2-D and ISO 11801 Category 6 component requirements at swept frequencies up to 250 MHz ²
Cable diameter:	0.235 in. (6.0mm) nominal
FCC compliance:	Complies with ANSI/TIA-1096-A (formerly FCC Part 68); contacts plated with 50 micrometers of gold
IEC compliance:	Meets IEC 60603-7
PoE compliance:	Supports IEEE 802.3af/802.3at and 802.3bt type 3 and type 4 PoE applications
Safety compliance:	cULus Listed; UL 1863 and CAN/CSA-C22.2 (UL File E129886)
RoHS compliance:	Compliant
Flammability rating:	CM rated

key features and benefits

100% performance tested	Confidence that each patch cord delivers specified performance
Patented tangle free latch	Prevents snags and provides easy release
Slender strain relief boot	Provides easy access in high-density applications
Identification	Provides identification of performance level, length, and quality control number for future traceability
Variety of colors and lengths available	Meets individual length and color-coding requirements

applications

Applications include:

- Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), and 1000BASE-T (Gigabit Ethernet)
- 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM
- Token Ring 4/16
- Voice over internet protocol (VoIP)

NetKey® Network Components

NetKey® Category 6 Patch Cords

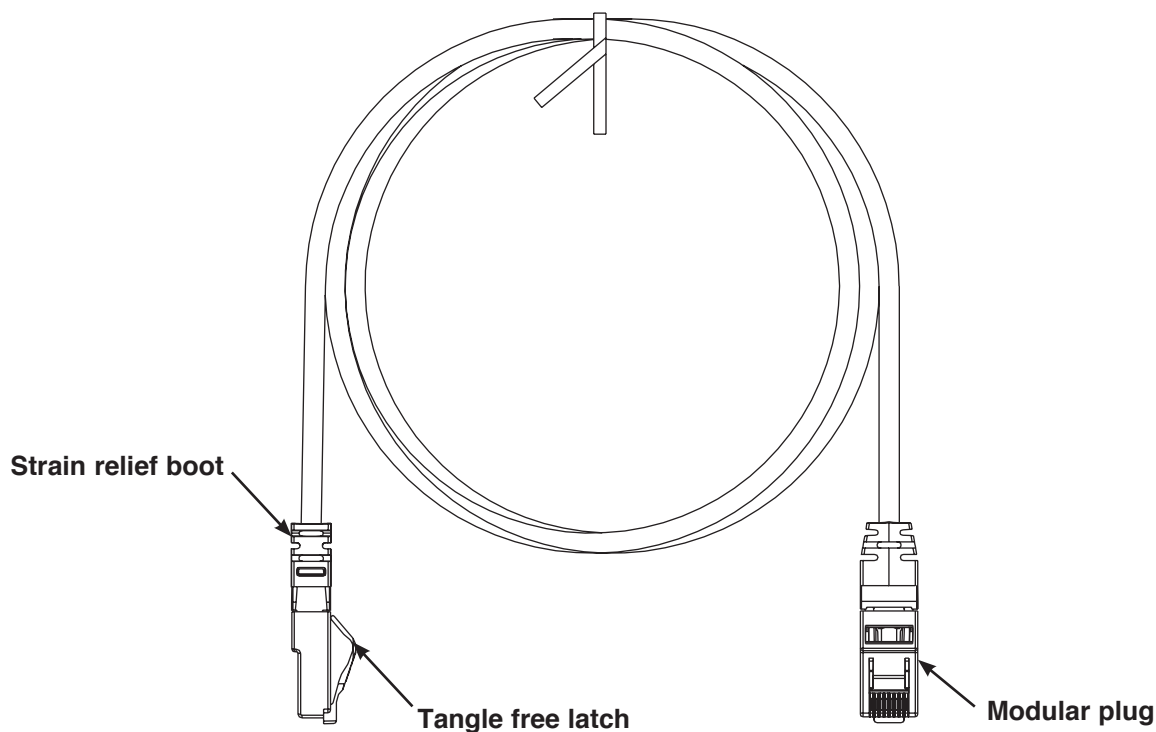
Foot lengths: NK6PC3*Y
Meter lengths: NK6PC1M^Y

*For standard lengths other than 3 feet (5, 7, 10, 14 or 20) change the length designation in part number to the desired length. For standard cable colors other than Off White, add suffix BU (Blue), GR (Green), RD (Red), or YL (Yellow) before the Y at the end of the part number. For example, the part number for a blue 5 foot patch cord is NK6PC5BUY.

^For standard lengths other than 1 meter (2, 3, 4 or 5) change the length designation in part number to the desired length. For standard cable colors other than Off White, add suffix BU (Blue), GR (Green), RD (Red), or YL (Yellow) before the Y at the end of the part number. For example, the part number for a blue 5 meter patch cord is NK6PC5MBUY.

◇Lengths 1m to 15m or 1 foot to 49 feet are guaranteed to meet TIA and ISO component and channel requirements. Lengths greater than 15m or 49 feet are guaranteed to meet ISO component and both TIA and ISO channel requirements.

NetKey® Category 6 UTP Patch Cords



WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT CANADA
Markham, Ontario
cs-cdn@panduit.com
Phone: 800.777.3300

PANDUIT EUROPE LTD.
London, UK
cs-emea@panduit.com
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
Republic of Singapore
cs-ap@panduit.com
Phone: 65.6305.7575

PANDUIT JAPAN
Tokyo, Japan
cs-japan@panduit.com
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA
Guadalajara, Mexico
cs-la@panduit.com
Phone: 52.33.3777.6000

PANDUIT AUSTRALIA PTY. LTD.
Victoria, Australia
cs-aus@panduit.com
Phone: 61.3.9794.9020

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Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com
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NKDS31--WW-ENG
12/2018

2 Post Standard Equipment Rack

specifications

The data equipment rack shall meet EIA-310D standards and be constructed of extruded aluminum or steel capable of accepting 19" wide EIA equipment. The telecommunications rack shall be constructed of extruded aluminum and capable of accepting 23" wide telecommunications equipment. Rack construction method shall ensure an electrically bonded structure for ease of grounding. The 3" channel rack shall be UL listed for 1000 lbs. load rating and the 6" channel rack shall be UL listed for 1500 lbs. load rating. The equipment mounting rails shall be double-sided #12-24 EIA universal mounting hole spacing. The equipment mounting rails shall include printed rack space identification on the front and back and be numbered up. The channel of the rack shall be capable of mounting NetRunner™ or PatchRunner™ Vertical Cable Managers. 24 #12-24 mounting screws shall be included with the rack.



technical information

Dimension:	Part Number	RU	Height in. (mm)	Width in. (mm)	Depth in. (mm)
	R2P96	52	96.1 (2441)	20.3 (514)	3.0 (76)
	R2P(WH)	45	84.0 (2134)	20.3 (514)	3.0 (76)
	R2P79	42	79.0 (2007)	20.3 (514)	3.0 (76)
	R2P48	24	48.0 (1219)	20.3 (514)	3.0 (76)
	R2PS	45	84.0 (2134)	20.3 (514)	3.0 (76)
	R2P6S	45	84.0 (2134)	20.3 (514)	6.0 (152)
	R2P6S96	52	96.1 (2441)	20.3 (514)	6.0 (152)
	R2PW	45	84.0 (2134)	24.5 (616)	3.0 (76)

Packaging: Includes right and left mounting rack channels, top and bottom brackets, assembly hardware with paint piercing washers and anti-oxidizing paste for complete rack bonding

key features and benefits

Rack spaces	The 8' rack with 52 rack spaces allows more equipment in the same footprint to maximize real estate for lowest cost of ownership
Extruded aluminum construction	Designed to be lightweight and durable for easier deployment and reduced transportation costs; UL listed for 1000 lbs.
Heavy duty steel construction	6" channel rack designed for higher weight capacity for large equipment; UL listed for 1500 lbs.
Printed rack space identification	Allows for quick location of rack mounted equipment for faster installation and less rework; see individual customer drawings for specific rack RU numbering
Paint piercing washers	Fully electrically bonds rack components to simplify grounding process for improved network reliability
Double-sided #12-24 mounting holes	Provides ability to mount equipment on both sides of the rack channel for improved system flexibility
Multiple mounting hole locations	Provides flexibility to mount to floor using any of three hole locations. Note: Utilizing holes closest to the vertical uprights will minimize deflection
J-bolt accessibility	J-bolt can be attached to top bracket without violating top RU space for added stability

applications

Panduit 2 post standard equipment rack provides a reliable foundation for mounting telecommunication and data center equipment. The rack can be used to manage high performance copper and fiber patch cables. This modular rack system is compatible with

Panduit horizontal and vertical cable managers. The 2 post standard equipment rack is part of a complete rack and cable management system that manages, protects, and showcases your network investment.

3" Channel Racks – Aluminum

96" H x 19" W #12-24 threaded rail:	R2P96
84" H x 19" W #12-24 threaded rail:	R2P [^]
48" H x 19" W #12-24 threaded rail:	R2P48
79" H x 19" W #12-24 threaded rail:	R2P79
84" H x 23" W #12-24 threaded rail:	R2PW

3" Channel Racks – Steel

84" H x 19" W #12-24 threaded rail:	R2PS
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6" Channel Racks – Steel

84" H x 19" W #12-24 threaded rail:	R2P6S
96" H x 19" W #12-24 threaded rail:	R2P6S96

2 Post Rack Accessories for 19" Racks – Front Mount Shelves

1.7"H x 19.0"W x 15.2"D:	SRM19FM1
3.5"H x 19.0" W x 15.2"D:	SRM19FM2
Cantilevered Shelf Vented 5.2"H x 19.2"W x 12.5"D:	SRM19CMV3
Cantilevered Shelf 5.2"H x 19.0"W x 12.5"D:	SRM19CM3

Adjustable Shelf

19.0"W x 18.0"D:	SRM19X18A
19.0"W x 25.0"D:	SRM19X25A

Power Distribution Unit (PDU) Mounting Bracket

2 post rack (PDU) bracket (set of 2):	R2PPDUB
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Additional Hardware

100 #12-24 screws:	S1224-C
Rack anchor kit for concrete floor:	RFAKIT
Rack anchor kit for raised floor:	RFA3KIT

NetRunner™ Vertical Cable Managers – 7 Foot Front and Rear

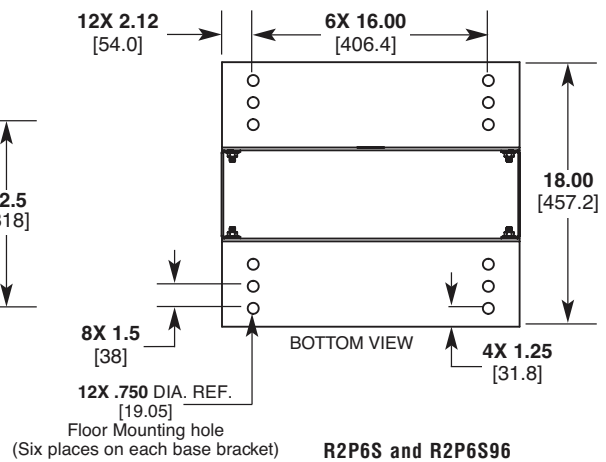
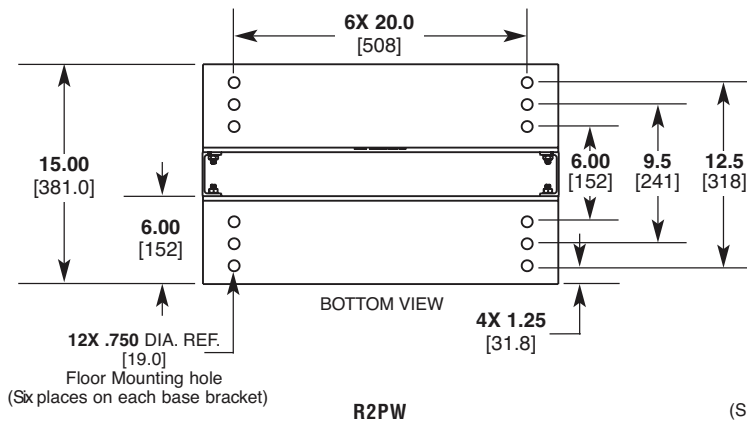
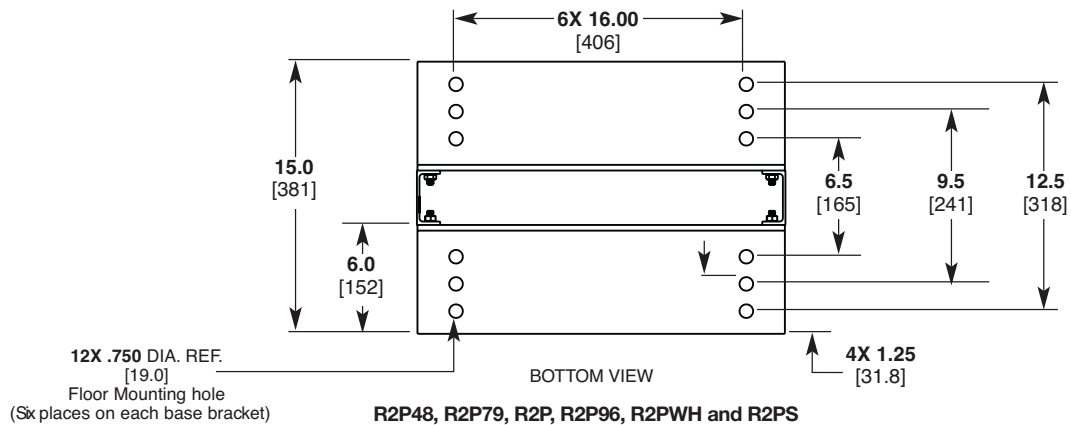
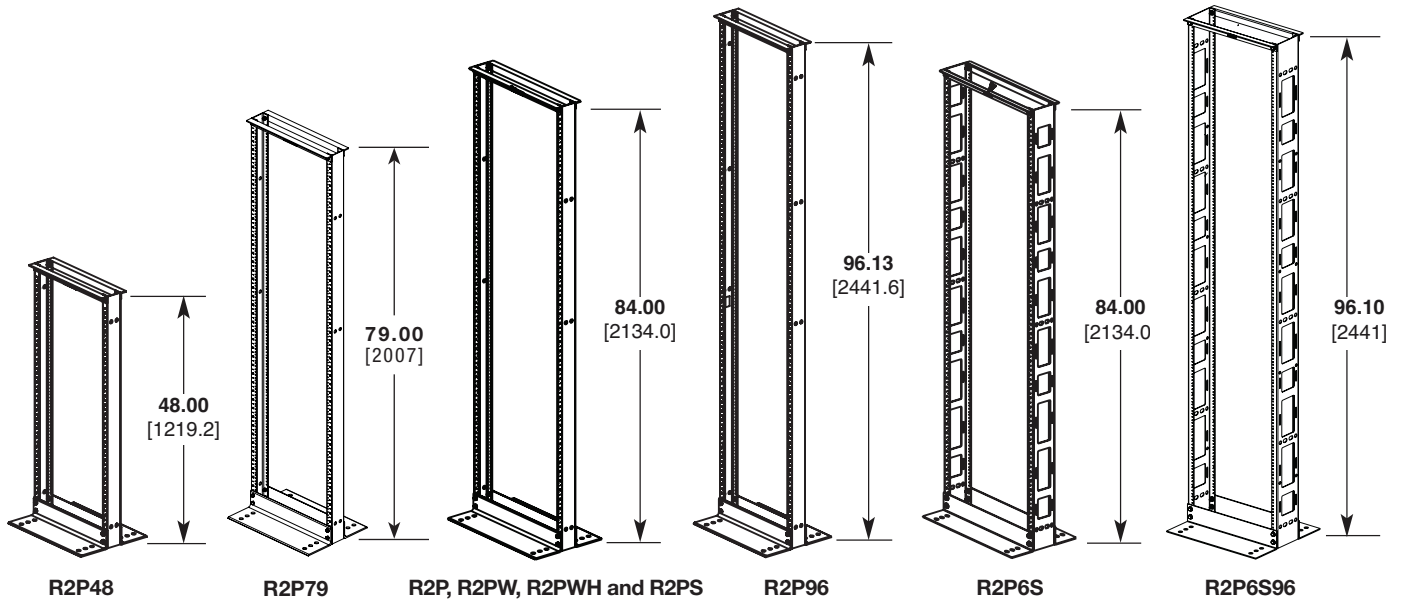
45 RU, 4" x 5":	WMPV45E
45 RU, 6" x 6":	WMPVHC45E
Front only	
45 RU, 4" x 5":	WMPVF45E
45 RU, 6" x 6":	WMPVHCF45E

PatchRunner™ 2 Vertical Cable Managers with Doors - 7 Foot

6" W, front and rear:	PR2VD06* [^]
6" W, front only:	PR2VFD06* [^]
8" W, front and rear:	PR2VD08* [^]
8" W, front only:	PR2VFD08* [^]
10" W, front and rear:	PR2VD10* [^]
10" W, front only:	PR2VFD10* [^]
12" W, front and rear:	PR2VD12* [^]
12" W, front only:	PR2VFD12* [^]

*Add suffix 96 to the end of the part number for 8' part numbers.
[^]Add suffix "WH" to end of part number for white product.
 Ex: R2PWH or PR2VD06WH

2 Post Standard Equipment Rack



Dimensions are in inches. [Dimensions in brackets are metric].

WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT US/CANADA
Phone: 800.777.3300

PANDUIT EUROPE LTD.
London, UK
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
Republic of Singapore
Phone: 65.6305.7575

PANDUIT JAPAN
Tokyo, Japan
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA
Guadalajara, Mexico
Phone: 52.33.3777.6000

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Phone: 61.3.9794.9020

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RKSP143--WW-ENG
Replaces WW-RKSP26
8/2019

PatchRunner™ Vertical Cable Managers

PANDUIT®

SPECIFICATION SHEET

specifications

The vertical cable manager shall consist of a metal backbone with cable management fingers that align with EIA rack spacing. The fingers shall be molded out of plastic and provide integral bend radius control throughout the entire length. The backbone shall have pass through holes with rolled edges that provide bend radius control. The manager shall accept a metal, hinged door that can open to the right or left. The manager shall accept plastic slack management spools that can be repositioned as required. The vertical panel shall be able to manage all the cable on the rack without the aid of horizontal cable managers.



technical information

6.5 Foot Managers and Doors				7 Foot Managers and Doors				8 Foot Managers and Doors								
Part Number	RU	Height in (mm)	Width in (mm)	Depth in (mm)	Part Number	RU	Height in (mm)	Width in (mm)	Depth in (mm)	Part Number	RU	Height in (mm)	Width in (mm)	Depth in (mm)		
PRV679	42	78.9 (2004)	6.0 (152)	16.4 (417)	Dual Sided Vertical Managers	PRV6	45	83.9 (2131)	6.0 (152)	16.4 (417)	Dual Sided Vertical Managers	PRV696	52	95.5 (2426)	6.0 (152)	16.4 (417)
				PRV8		45	83.9 (2131)	8.0 (203)	16.4 (417)	PRV896		52	95.5 (2426)	8.0 (203)	16.4 (417)	
				PRV10		45	83.9 (2131)	10.0 (253)	16.4 (417)	PRV1096		52	95.5 (2426)	10.0 (253)	16.4 (417)	
PRV1279	42	78.9 (2004)	12.0 (305)	16.4 (417)	Dual Sided Vertical Managers	PRV12	45	83.9 (2131)	12.0 (305)	16.4 (417)	Dual Sided Vertical Managers	PRV1296	52	95.5 (2426)	12.0 (305)	16.4 (417)
				PRV15		45	83.9 (2131)	15.0 (381)	16.4 (417)	PRV1596		52	95.5 (2426)	15.0 (381)	16.4 (417)	
				PRV6		45	83.9 (2131)	6.0 (152)	9.7 (246)	PRV696		52	95.5 (2426)	6.0 (152)	9.7 (246)	
PRVF679	42	78.9 (2004)	6.0 (152)	9.7 (246)	Single Sided Vertical Managers	PRVF8	45	83.9 (2131)	8.0 (203)	9.7 (246)	Single Sided Vertical Managers	PRVF896	52	95.5 (2426)	8.0 (203)	9.7 (246)
				PRVF10		45	83.9 (2131)	10.0 (253)	9.7 (246)	PRVF1096		52	95.5 (2426)	10.0 (253)	9.7 (246)	
				PRVF12		45	83.9 (2131)	12.0 (305)	9.7 (246)	PRVF1296		52	95.5 (2426)	12.0 (305)	9.7 (246)	
PRVF1279	42	78.9 (2004)	12.0 (305)	9.7 (246)	Single Sided Vertical Managers	PRVF15	45	83.9 (2131)	15.0 (381)	9.7 (246)	Single Sided Vertical Managers	PRVF1596	52	95.5 (2426)	15.0 (381)	9.7 (246)
				PRD6		45	82.8 (2104)	6.1 (155)	1.6 (40)	PRD696		52	94.4 (2399)	6.1 (155)	1.6 (40)	
				PRD8		45	82.8 (2104)	8.1 (206)	1.6 (40)	PRD896		52	94.4 (2399)	8.1 (206)	1.6 (40)	
PRD679	42	77.8 (1977)	6.1 (155)	1.6 (40)	Dual Hinged Metal Doors	PRD10	45	82.8 (2104)	10.1 (257)	1.6 (40)	Dual Hinged Metal Doors	PRD1096	52	94.4 (2399)	10.1 (257)	1.6 (40)
				PRD12		45	82.8 (2104)	12.1 (308)	1.6 (40)	PRD1296		52	94.4 (2399)	12.1 (308)	1.6 (40)	
				PRD15		45	82.8 (2104)	15.1 (384)	1.6 (40)	PRD1596		52	94.4 (2399)	15.1 (384)	1.6 (40)	

key features and benefits

High-density	Minimizes area required for network layout, freeing up valuable floor space
Curved fingers	Support cables as they transition to the vertical pathway eliminating the need for horizontal managers
Individual fingers	Aligns with rack spaces to simplify cable routing for moves, adds, and changes
Integral bend radius control	Maintains cable bend radius ensuring network performance and system reliability
Slack management spools	Organize and manage patch cord slack allowing for standardization of patch cord lengths
Dual hinged door	Opens to the left or right to allow easy access to vertical pathway without having to completely remove door
Snap-on vertical retainers	Can be placed on fingers to help retain cables in channel for improved cable management and appearance

applications

PatchRunner™ Vertical Cable Managers are designed to manage high-density networking equipment in, up to, half the area required by traditional cable management systems. Molded cable management fingers, with integral bend radius control, combine with Panduit angled patch panels to eliminate the need for horizontal cable managers. This frees up rack space for additional patch panels, active equipment, or cable pathways reducing the

number of racks that may be required for the network layout. The reduction in square footage combined with fewer components ordered, inventoried and installed results in significant cost savings for the network infrastructure. When used with Panduit connectivity, patch cords, and racks, the user receives a complete cable management solution that maximizes density while minimizing the area required for their network.

Vertical Cable Managers – 6.5 Foot

Dual-sided:	
6" wide:	PRV679
12" wide:	PRV1279
Single-sided:	
6" wide:	PRVF679
12" wide:	PRVF1279

Dual Hinged Doors – 6.5 Foot

6" wide:	PRD679
12" wide:	PRD1279

Standard EIA Racks – 6.5 Foot

2 post rack:	R2P79
4 post rack:	R4P79
4 post rack:	R4PCN79

Vertical Cable Managers – 7 Foot

Dual-sided	
6" wide:	PRV6*
8" wide:	PRV8*
10" wide:	PRV10*
12" wide:	PRV12*
15" wide:	PRV15*
Single-sided	
6" wide:	PRVF6*
8" wide:	PRVF8*
10" wide:	PRVF10*
12" wide:	PRVF12*
15" wide:	PRVF15*

Dual Hinged Doors – 7 Foot

6" wide:	PRD6
8" wide:	PRD8
10" wide:	PRD10
12" wide:	PRD12
15" wide:	PRD15

Enhanced Dual Hinged Doors – 7 Foot

6" wide:	PED6B1
8" wide:	PED8B1
10" wide:	PED10B1
12" wide:	PED12B1

Standard EIA Racks – 7 Foot

19" wide #12-24 threaded rail:	R2P*
23" wide #12-24 threaded rail:	R2PW
19" wide #12-24 threaded rail:	R2P6S*

NetManager® Horizontal Cable Managers

2 RU manager front only:	NMF2
3 RU manager front only:	NMF3
4 RU manager front only:	NMF4

Horizontal Managers for Pathways

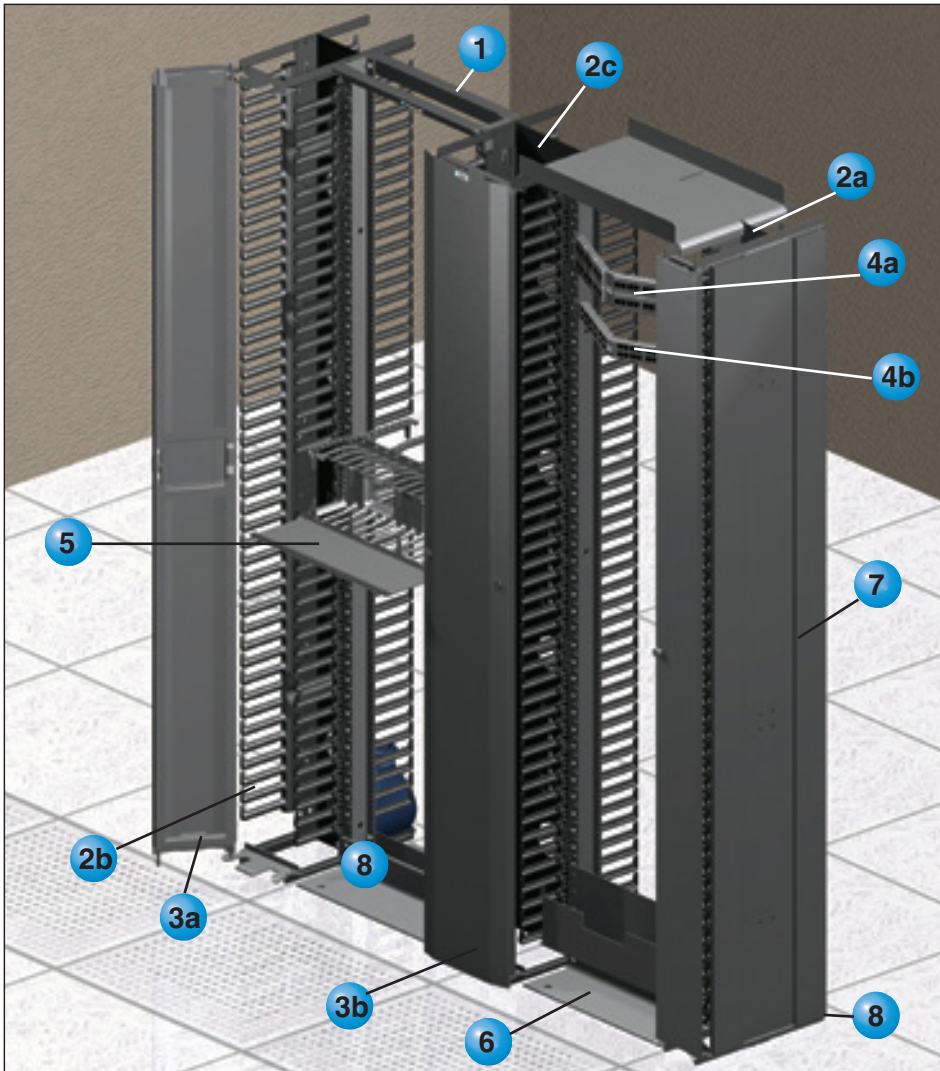
Cable routing trough:	CMT4
	CMLT19
	CMUT19

Accessories

7" front slack management spool:	PRSP7
5" rear slack management spool:	PRSP5
End panel:	PREP*B1
Cable retainer:	WR5E-X

* For part numbers 8 feet tall, add "96" to end of part number. Ex: PRV696 or PRVF696

PatchRunner™ Vertical Cable Managers



1 R2P – 19" Standard
EIA Rack 19" x 7', 45 RU

PATCHRUNNER™ VERTICAL MANAGERS

2a PRV6 – 6" wide

2b PRV8 – 8" wide

2c PRV12 – 12" wide

HINGED DOORS

3a PRD8 – Dual Hinge, 8" wide

3b PED12B1 – Dual Hinge, 12" wide

ANGLED MODULAR PATCH PANELS

4a CPPLA48WBLY – 2 RU, 48-Port

4b CPPA48HDWBLY – 1 RU, High Density 48-Port

5 NM4 – Cable Pathway, 4 RU

6 CMT4 – Trough, 4 RU

7 PREPB1 – End Panel

8 RFG6X8 – Cool Boot™ Raised Floor Air Sealing Grommet

cable capacity chart

Part Number	Front Channel w/ Spool					Front Channel No Spool					Rear Channel				
	Channel Area (in ²)	Cat. 6A (28AWG - 0.185")	Cat. 6A (24AWG - 0.275")	Cat. 6 (28AWG - 0.150")	Cat. 6 (24AWG - 0.235")	Channel Area (in ²)	Cat. 6A (28AWG - 0.185")	Cat. 6A (24AWG - 0.275")	Cat. 6 (28AWG - 0.150")	Cat. 6 (24AWG - 0.235")	Channel Area (in ²)	Cat. 6A (28AWG - 0.185")	Cat. 6A (24AWG - 0.275")	Cat. 6 (28AWG - 0.150")	Cat. 6 (24AWG - 0.235")
PRV6* (dual sided)	28.2	419	190	638	260	37.8	562	254	855	348	27.6	410	185	624	254
PRVF6* (single sided)											-	-	-	-	-
PRV8* (dual sided)	44.7	664	300	1011	412	54.3	808	365	1229	500	39	580	262	882	359
PRVF8* (single sided)											-	-	-	-	-
PRV10* (dual sided)	61.1	909	411	1383	563	70.7	1052	476	1600	652	50.3	748	338	1138	463
PRVF10* (single sided)											-	-	-	-	-
PRV12* (dual sided)	77.6	1154	522	1756	715	87.2	1297	587	1973	804	61.7	918	415	1396	569
PRVF12* (single sided)											-	-	-	-	-
PRV15* (dual sided)	102.3	1522	688	2315	943	111.9	1665	753	2532	1031	78.7	1171	530	1781	725
PRVF15* (single sided)											-	-	-	-	-
Single PRV Finger	4.6	85	38	130	53										

Capacities are based on a fill rate of 40% to accommodate proper cable routing techniques.
The above cable diameters represent the nominal Panduit cable diameter per performance level.
*For part numbers that are 8 foot tall, add "96" to the end of the part number.

WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT CANADA
Markham, Ontario
cs-cdn@panduit.com
Phone: 800.777.3300

PANDUIT EUROPE LTD.
London, UK
cs-emea@panduit.com
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
Republic of Singapore
cs-ap@panduit.com
Phone: 65.6305.7575

PANDUIT JAPAN
Tokyo, Japan
cs-japan@panduit.com
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA
Guadalajara, Mexico
cs-la@panduit.com
Phone: 52.33.3777.6000

PANDUIT AUSTRALIA PTY. LTD.
Victoria, Australia
cs-aus@panduit.com
Phone: 61.3.9794.9020

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Contact Customer Service by email: cs@panduit.com
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RKSP144--WW-ENG
Replaces WW-RKSP12
2016-11-28

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- C. Fiber Systems
- D. Faceplates, Frames & Surface Mount Boxes
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- K. Surface Raceway
- L. Cabinets & Rack Systems
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- O. Identification Products
- P. Cable Management Accessories
- Q. Part Number Index

€ 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)



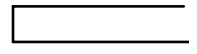
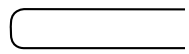
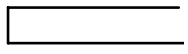
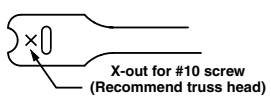
HLS (Strip Ties)



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	0.75	19.1	1.91	49.0	50	222	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.