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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







Space Saving Cable Management Rack Systems





PANDUIT®

building a smarter, unified business foundation

Connect. Manage. Automate.



Panduit's Unified Physical Infrastructure (UPI): a Guiding Approach

A unified approach to physical and logical systems architecture is imperative for solutions to fully address the need for availability, agility, integration, and security.

Panduit has developed the industry's most comprehensive and holistic approach to a Unified Physical Infrastructure and can help enterprises align, converge, and optimize critical systems - communication, computing, control, power, and security - to build a smarter, unified business foundation.

Mitigate Risk - Efficient physical infrastructure management enables seamless integration to reduce risks which can occur throughout core systems.

Lower Cost - Panduit physical infrastructure solutions drive financial advantages to reduce energy and occupancy costs, and help secure competitive advantage.

Increase Agility - A high level of integration within the physical infrastructure enables flexibility and improved business agility.

Enhance Sustainability - UPI-based solution offerings enable organizations to meet sustainability goals by driving resource and energy efficiencies across the physical infrastructure.

Unified Physical Infrastructure











Maximize Space Utilization, Enhance Network Reliability

The trend towards consolidation, virtualization and automation in the enterprise is driving the need to maximize space utilization to reduce capital expenditures and operational costs while maintaining network reliability and availability. This trend is placing greater demands on the physical infrastructure to help manage growing cable densities, larger network equipment and increasing energy usage.

Space Optimized, High Capacity Cable Management Systems

Panduit builds on years of experience as a leader in cable management, integrating best practices and application knowledge to develop highly reliable and efficient physical infrastructure solutions. Panduit's comprehensive offering of vertical cable management, horizontal cable management, and rack solutions reduces space required to route, manage and protect high cable capacities, providing the lowest total cost of ownership. These product sets can be combined to provide an optimized solution for virtually any application.

PatchRunner™ and NetRunner™ Vertical Cable Management Systems address the needs of the data center and telecommunications rooms to deliver improved network performance and reduced real estate costs. Superior cable management features and innovative vertical RU mounting maximize capacity and enable efficient moves, adds, and changes to reduce operational costs.

PatchRunner™ High Capacity Vertical Cable Management System PatchRunner™ High Capacity Vertical Cable Managers are optimized to provide the maximum amount of capacity, flexibility and accessibility for high density switch and server applications.

NetRunner™ High Capacity Vertical Cable Management System NetRunner™ High Capacity Vertical Cable Managers are designed to provide the best combination of features and value for standard density enterprise telecommunications rooms and data center applications.

Thermal Management

Panduit's passive, optimized thermal management solutions enable high density, high heat load data center design while reducing energy costs.

2 Post and 4 Post Racks

PatchRunner™ and NetRunner™ High Capacity Systems can be seamlessly integrated into Panduit's versatile 2 post and 4 post racks. Designed for today's larger network equipment, Panduit racks provide strength, capacity and thermal features that help ensure network availability. The 2 post and 4 post rack thermal accessories provide proper heat dissipation of active equipment, improving network reliability.

Reduce Real Estate Cost and Space Utilization by 35% with Panduit High Capacity Cable Management Systems

Panduit High Capacity Cable Management Systems enable the maximum amount of cables to be managed in a minimum amount of space, reducing the square footage required to deploy high density network switching and patching by up to 35%. Innovative cable management features allow efficient organization and protection of high performance copper and fiber optic cables, enhancing network reliability and reducing operational expense.



Layout	Traditional NetRunner [™] Vertical Cable Management System	High Density PatchRunner [™] High Capacity Vertical Cable Management System	Vertical Patching PatchRunner [™] High Capacity Vertical Cable Management System
Footprint Width	114.6" (2.91m)	68.6" (1.74m)	44.3" (1.13m)
Areas	21.1 Sq. ft.	13.4 Sq. ft.	8.7 Sq. ft.
Real Estate Cost	\$54,016	\$34,304	\$22,272

Real estate cost based on a 2010 Gartner estimate for a Tier 3 data center. Refer to page 18 and 19 for capacity and space requirements for specific solutions.

High Density Solutions for the Cisco^ Nexus 7010 Switch

High performance network switching requires innovations to be extended into every aspect of the physical infrastructure. New concepts for managing equipment, connectivity, and available space are needed to provide maximum density, scalability and usability. The PatchRunner™ High Capacity Vertical Cable Management System with 4 post rack equipment management offers the highest cable capacities for maximum densities, vertical patching and accessories for scalability and superior space utilization.

Maximum Capacity with Minimal Space

- Vertical patching enables two Cisco^ Nexus 7010
 Switches to be deployed within a single rack, eliminating the need for a separate patching rack
- Allachia disco
- Strong, flexible fingers support Category 6A cables without deforming
- Enables standard 19"
 patch panels to be
 mounted vertically, freeing
 up rack spaces for
 additional equipment
- Allows patch panels to be positioned near switch ports, optimizing patch cord lengths
- Accepts either copper or fiber patch panels
- Minimizes slacking and allows for a more efficient use of the vertical manager space









Maximum Versatility and Strength

- The 4 post rack depth encases Nexus 7010 switches, providing increased physical protection
- Rack features allow quick POU mounting
- UL listed 2500 lb. (1134kg) load rating securely supports two Nexus 7010 switches and cabling



Infrastructure Showcase

- The NEW push shut door with visual and audible feedback delivers a clean aesthetic look
- End panels enable the vertical managers to be closed off, increasing protection and providing a clean look at the end of your lineup



High Density Solutions for the Cisco Nexus 7009 Switch

Effectively deploying the latest high performance network switches requires in-depth knowledge of cable management, infrastructure, thermal management, and the ability to apply that knowledge in the creation of superior solutions.



Equipment management is part of the foundation of the Unified Physical InfrastructureSM (UPI) approach, providing full structure protection of equipment, delivering UL rated support, and respecting equipment airflow patterns. Vertical cable management that not only provides slacking of patch cords, but goes beyond in the ability to support options to simplify system organization and interface to the system-wide infrastructure.

 FiberRunner® and Wyr-Grid® Overhead Routing Systems (depicted at top left and right) route, manage, and protect cables throughout the data center*.



Cable Management



 Space between individual fingers organize up to 48 Category 6A cables



 Deep vertical managers provide space to manage high densities

Infrastructure



Flexible power outlet unit mounting for any equipment power requirements

Vertically

relief bars

effectively

structured

cabling in the rear of the rack and provide separation of cable types

manage

oriented strain

Thermal Management



 Open areas respect equipment airflow patterns

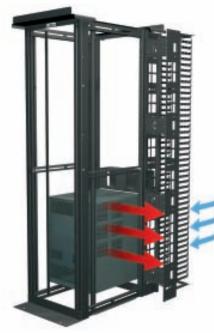


 Front to back spaces can be closed off for hot/cold aisle applications

*Download the Wyr-Grid® Overhead Cable Tray Routing System brochure (SA-RKCB18) and FiberRunner® Application Guide (SA-FRCB02) at www.panduit.com.

Thermal Management Solutions for Cisco^ Nexus 7000 and Catalyst 6500 Series Network Switches

For network equipment that utilize side-to-side airflow patterns, such as the Cisco Nexus 7009, 7018, and Catalyst 6500 Series Switches, rack mounted exhaust ducts can be used to optimize cooling efficiency by establishing a front to back airflow pattern.



4 post rack configured without thermal exhaust duct



4 post rack configured with a thermal exhaust duct illustrating a front to back airflow pattern

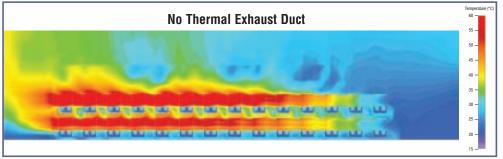
Controlling Exhaust Air via Ducting

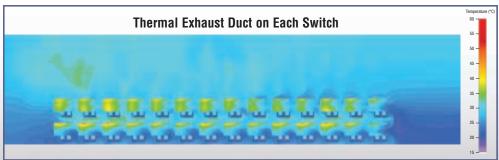
 A thermal exhaust duct prevents preheated air exhausted from a side-to-side airflow switch from entering the adjacent switch inlet



Panduit 4 post rack thermal ducts shown in a dual Nexus 7009 switch deployment.

Shown below is a front access cross sectional view of a multi-rack lineup, demonstrating thermal exhaust temperatures both with and without thermal exhaust ducts.





By redirecting the exhaust, the following benefits are achieved

- Lower inlet temperatures
- Variable speed fans run at slower speeds
- Decreased thermal stress on system, improving reliability
- Decreased energy usage

1 4 Post Rack

R4P

84.0"H x 23.25"W x 30.0"D 45 rack spaces

R4P23

84.0"H x 23.25"W x 23.0"D 45 rack spaces

R4P36

84.0"H x 23.25"W x 36.0"D 45 rack spaces

R4P42

84.0"H x 23.25"W x 41.5"D 45 rack spaces

2 PEV12

- PatchRunner™ High Capacity Vertical Cable Managers
- Available in 6", 8", 10", and 12" widths



3 PED12

- PatchRunner™ High Capacity Dual Hinged Metal Doors
- Available in 6", 8", 10", and 12" widths

4 R4PWF

 Rack Top Trough with Waterfall creates pathway above rack

5 NCMH2

 NetManager[™] Horizontal Cable Manager

6 NM2

 NetManager[™] High Capacity Horizontal Cable Manager



7 PEHF3

 PatchRunner[™] High Capacity Horizontal Cable Manager



8 RFG6X8

 Cool Boot® Raised Floor Air Sealing Grommet



PatchRunner[™] High Capacity Vertical Cable Management System

The capacity of this vertical manager is ideal for Category 6A cabling or other High Speed Data Transport cabling. Integral EIA zero rack space mounting capability in the back of the manager allows equipment to be patched in the PatchRunner™ High Capacity Vertical Cable Manager, freeing up valuable rack space for equipment and allowing the use of shorter length patch cords.



PatchRunner™ High Capacity Vertical Cable Managers

- High capacity minimizes area required for network layout, freeing up valuable floor space
- Allows vertical mounting of many standard EIA 19" accessories, such as patch panels
- Ventilated side walls provide maximum airflow for equipment cooling
- Snap-on finger sections can be removed to improve airflow, and break away fingers allow routing of large cable bundles
- Large finger spacing accommodates up to 48 Category 6A cables
- Optional sure close dual hinged metal doors provide easy access to vertical pathway and provide visual and audible feedback on closure



Part Number	Part Description	No. of Rack Spaces‡	Std. Pkg. Qty.
	al Sided Vertical Managers	Opacco+	Gty.
PEV6*	Dimensions: 83.5"H x 6.0"W x 28.1"D (2120mm x 152mm x 714mm).	45	1
PEV8*	Dimensions: 83.5"H x 8.0"W x 28.1"D (2120mm x 203mm x 714mm).	45	1
PEV10*	Dimensions: 83.5"H x 10.0"W x 28.1"D (2120mm x 254mm x 714mm).	45	1
PEV12*	Dimensions: 83.5"H x 12.0"W x 28.1"D (2120mm x 305mm x 714mm).	45	1
High Capacity Sir	ngle Sided Vertical Managers		
PEVF6*	Dimensions: 83.5"H x 6.0"W x 15.9"D (2120mm x 152mm x 404mm).	45	1
PEVF8*	Dimensions: 83.5"H x 8.0"W x 15.9"D (2120mm x 203mm x 404mm).	45	1
PEVF10*	Dimensions: 83.5"H x 10.0"W x 15.9"D (2120mm x 254mm x 404mm).	45	1
PEVF12*	Dimensions: 83.5"H x 12.0"W x 15.9"D (2120mm x 305mm x 404mm).	45	1
PatchRunner™ Hig	h Capacity Dual Hinged Metal Doors		
PED6*	Dimensions: 82.8"H x 6.1"W x 1.7"D (2103mm x 155mm x 43mm).	45	1
PED8*	Dimensions: 82.8"H x 8.1"W x 1.7"D (2103mm x 206mm x 43mm).	45	1
PED10*	Dimensions: 82.8"H x 10.1"W x 1.7"D (2103mm x 256mm x 43mm).	45	1
PED12*	Dimensions: 82.8"H x 12.1"W x 1.7"D (2103mm x 307mm x 43mm).	45	1
Accessories			
PEVEP	End Panel. Dimensions: 83.7"H x 23.2"W x .5"D (2125mm x 590mm x 12mm).	_	1
PEVBRC6	Horizontal cross brace bend radius control clips for PatchRunner™ High Capacity Vertical Cable Managers PEV6 and PEVF6.	_	1
PEVBRC8	Horizontal cross brace bend radius control clips for PatchRunner™ High Capacity Vertical Cable Managers PEV8 and PEVF8.	_	1
PEVBRC10	Horizontal cross brace bend radius control clips for PatchRunner™High Capacity Vertical Cable Managers PEV10 and PEVF10.	_	1
PEVBRC12	Horizontal cross brace bend radius control clips for PatchRunner™High Capacity Vertical Cable Managers PEV12 and PEVF12.	_	1
SRB19D7BL	Strain relief bar extends 7" off the rack; supports, manages, and provides proper bend radius protection. Ideal for use with Category 6A copper cabling installations.	_	1

*For part numbers that fit 8' rack, add "96" to end of part number. Overall height for managers is 95.5" (2426mm). Overall door height is 94.4" (2399mm). ‡One rack space = 1.75" (44.45mm).

All product color is black.

For PatchRunner™ High Capacity Vertical Cable Manager Specifications, see page18.

1 2 Post Rack

R₂P

84.0"H x 20.3"W x 3.0"D 45 rack spaces aluminum

R2PS

84.0"H x 20.3"W x 3.0"D 45 rack spaces steel

R2PW

84.0"H x 24.3"W x 3.0"D 45 rack spaces

2 NRV12

• 12"W Front and Rear Vertical Manager – 45 rack spaces



3 NRD12

Dual Hinged Metal Door –
 45 rack spaces



4 WMPV45ERTW

 Rack Top Trough with Waterfall creates pathway above rack



5 NREP

 End panel for NRV NetRunner[™] High Capacity Vertical Cable Managers



6 CMPH2

2 RU Open-Access[™]
 Horizontal Cable Manager
 D-rings



7 WMPH2E

 2 RU PatchLink[™] Horizontal Cable Manager



8 NCMH2

 NetManager[™] Horizontal Cable Manager



9 NM2

 NetManager[™] High Capacity Horizontal Cable Manager



10 RFG6X8

 Cool Boot® Raised Floor Air Sealing Grommet



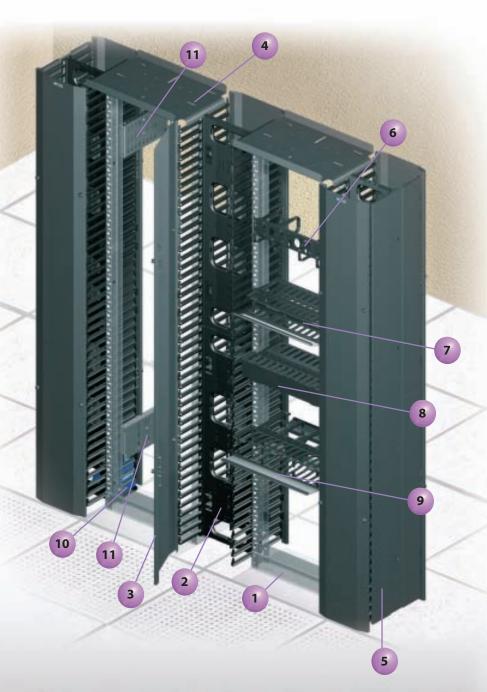
11 R2PPDUB

 Power Outlet Unit (POU) bracket for 2 and 4 post racks



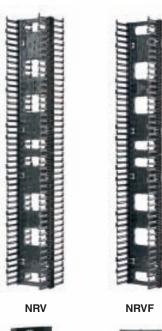
NetRunner™ High Capacity Vertical Cable Management System

Provides cost effective solutions that organize, manage, protect and showcase network cabling while ensuring system performance and reliability. Optimal compatibility with Panduit racks, patch panels, and connectivity provides a complete end-to-end solution.

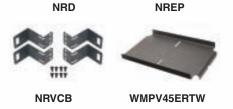


NetRunner[™] **High Capacity Vertical Cable Managers**

- Large finger openings accommodate up to 24 Category 6A cables
- Push button dual hinged doors ordered separately can be opened 110° to the left or right to provide complete access to the cables inside the vertical pathway
- Snap-on cable retainers can be placed onto fingers to help retain cables in channel during installation and maintenance
- Vertical managers include cable retainers, mounting brackets and #12-24 screws
- For 2 post 3" channel racks and 4 post racks







Part Number	Part Description	No. of Rack Spaces‡	Std. Pkg. Qty
High Capacity D	ual Sided Vertical Managers		
NRV6	Dimensions: 80.4"H x 6.7"W x 13.8"D (2042mm x 170mm x 350mm).	45	1
NRV10	Dimensions: 80.4"H x 10.0"W x 13.8"D (2042mm x 254mm x 350mm).	45	1
NRV12	Dimensions: 80.4"H x 12.0"W x 13.8"D (2042mm x 305mm x 350mm).	45	1
High Capacity Si	ngle Sided Vertical Managers		
NRVF6	Dimensions: 80.4"H x 6.7"W x 7.48"D (2042mm x 170mm x 190mm).	45	1
NRVF10	Dimensions: 80.4"H x 10.0"W x 7.48"D (2042mm x 254mm x 190mm).	45	1
NRVF12	Dimensions: 80.4"H x 12.0"W x 7.48"D (2042mm x 305mm x 190mm).	45	1
High Capacity Do	ual Hinged Metal Doors		
NRD6	Dimensions: 82.8"H x 7.4"W x 1.6"D (2104mm x 188mm x 40mm).	45	1
NRD10	Dimensions: 82.8"H x 10.7"W x 1.6"D (2104mm x 272mm x 40mm).	45	1
NRD12	Dimensions: 82.8"H x 12.7"W x 1.6"D (2104mm x 322mm x 40mm).	45	1
Accessories			
NRVCB	NetRunner™ High Capacity Center Mount Bracket Kit. For use with CEA-310-E standard 2 post and Panduit 4 Post Racks.	_	1
NREP	End panel for use with NRV series, WMPVHCF45E / WMPVHC45E.	_	1
WMPV45ERTW	Rack top trough with waterfall door 2 post 3" channel rack.	_	1

‡One rack space = 1.75" (44.45mm).

All product color is black.

For NetRunner $\!\!^{\scriptscriptstyle{\text{TM}}}$ High Capacity Vertical Cable Manager Specifications, see page 19.

4 Post Cable Management Rack System

Deep 4 post open server racks provide the necessary environment for high density server applications. The open design assures maximum ventilation while minimizing air mixing in hot/cold aisle configurations. Space in the rear of the 4 post racks allows for server power, cable management and patching, providing an efficient and functional server solution.

1 4 Post Rack

R4P36CN

Cage nut rails 84.0"H x 23.25"W x 36.0"D 45 rack spaces

R4P42CN

Cage nut rails 84.0"H x 23.25"W x 41.5"D 45 rack spaces



2 R4PFP

Vertical Blanking Panel



3 CVPDUB

 Vertical POU Mounting Brackets



4 CVPPB

 Vertical Patch Panel Mounting Bracket



5 RCSTR

Caster set



R4PFL

 Vertical finger section for cable management





4 Post Rack System configured for server application.

4 Post Cable Management Rack System and Accessories

- Offered in 23", 30", 36" and 42" depths
- · Offered in 84" and 96" heights
- Fully adjustable rails can be adjusted after rack is secured to floor

Part Number

R4PFP

RCSTR

CVPPB

CNSPE

CVPDUB

R4PFL

 Cage nut rails for server applications and tapped rails for switch applications

Std.

Pkg.

Qty.

1

1

1

1

1

1

1

1

1

No. of Rack

Spaces‡

45

45

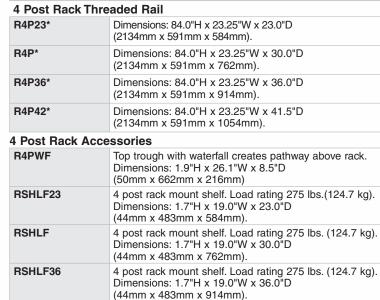
45

45

• 2,500 lbs. (1134 kg) load rating, UL Listed

Part Description







CVPDUB

CNSPE

01101 =	011 000
R4PFM	R4PAE1



R4PFR	Right vertical finger section for cable management.	11	1
R4PFM	Finger managers for 7 and 8 foot Panduit 4 Post Racks.	_	1
Thermal Ducts fo	r 4 Post Racks		
R4PAE1	Panduit 4 post rack thermal duct for use with Cisco^ 6509, 6509E, 6513, 9513 Director and Juniper 8208 switches.	_	1
R4PAE2	Panduit 4 post rack thermal ducting for use with Cisco [^] 7018 switch.	_	1
R4PAE3	Panduit 4 post rack thermal ducting for use with Cisco^ 7009 switch.	_	1

Adjustable vertical filler panel for Panduit 4 Post Racks

blocks by-pass air and directs cold airflow through equipment

Bracket to vertically mount 1 RU EIA 19" copper and fiber

patch panels to the side of the Net-Access™ Cabinet posts or

Net-Access™ Network Cabinet and 4 post rack end channel

slack spools. Package includes one left and one right slack

Bracket for vertical POU mounting to the side of the

Left vertical finger section for cable management.

Net-Access™ Cabinet posts or 4 post racks (kit of two).

*For 7' 4 Post Rack Cage Nut Rail add suffix CN to the end of the part number, for example, R4P23CN.

NOTE: For 8' 4 Post Rack Threaded Rail, add suffix 96 to the end of the part number, for example, R4P2396. For 8' 4 Post Rack Cage Nut, add suffix CN96 to the end of the part number, for example, R4P23CN96.

^Cisco is a registered trademark of Cisco Technology Inc.

when used.

4 post racks.

4 post rack casters.

spool and mounting brackets.

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‡One rack space = 1.75" (44.45mm).

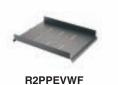
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2 Post Rack System

- Offered in 84" (2134mm) and 96" (2441mm) versions for both the three inch deep channel rack and six inch deep channel rack
- Rack space identification is printed numbers up allowing quick and easy equipment installation and identification
- Fully bonded structure

- 3" (76mm) deep channel,1000 lb. (454 kg) load rating, UL listed
- 6" (152mm) deep channel, 1500 lb. (680 kg) load rating, UL listed
- Perforated rails for cable access and side-to-side airflow switches [6" (152mm) depth only]









Part Number	Part Description	No. of Rack Spaces‡	Std. Pkg. Qty.
3" Deep Channel		Opuoco+	Gty.
R2P	19" EIA rack, aluminum. Dimensions: 84.0"H x 20.3"W x 3.0"D (2134mm x 514mm x 76mm).	45	1
R2P96	19" EIA rack, aluminum. Dimensions: 96.0"H x 20.3"W x 3.0"D (2134mm x 514mm x 76mm).	52	1
R2PS	19" EIA rack, steel. Dimensions: 84.0"H x 20.3"W x 3.0"D (2134mm x 514mm x 76mm).	45	1
R2PW	23" EIA rack, aluminum. Dimensions: 84.0"H x 24.3"W x 3.0"D (2134mm x 616mm x 76mm).	45	1
R2P48	19" EIA rack, aluminum. Dimensions: 48.0"H x 20.3"W x 3.0"D (1219mm x 514mm x 76mm).	24	1
S1224-C	#12-24 x .5" mounting screws.	_	100
6" Doop Channel	Pook		

6" Deep Channel Rack					
R2P6S	19" EIA rack, 6" channel, steel. Dimensions: 84.0"H x 20.3"W x 6"D (2134mm x 514mm x 152mm).	45	1		
R2P6S96	19" EIA rack, 6" channel, steel. Dimensions: 96.0"H x 20.3"W x 6"D (2438mm x 514mm x 152mm).	52	1		
R2PPEVWF	Waterfall Trough for 2 Post Rack and PatchRunner™ High Capacity Vertical Cable Managers.	_	1		

Thermal Duct for 2 Post Racks					
R2PAE1	2 post rack thermal duct for use with Cisco^ 6509 and 6509E Catalyst switches.	_	1		
R2PAE2	2 post rack thermal duct for use with Cisco^ 7009 switch.	_	1		
Accessories					

Accessories			
RFAKIT	Rack anchor kit for concrete floor (set of four).	_	1
R2PPDUB	Power Outlet Unit (POU) bracket for 2 and 4 post racks (set of two).	_	1

[‡]One rack space = 1.75" (44.45mm).

[^]Cisco is a registered trademark of Cisco Technology Inc..

All product color is black.

High Capacity Horizontal Cable Management Systems

NetManager™ High Capacity Horizontal Cable Managers

- Innovative inset fingers slope inward toward back of managers offering unobstructed access to network cabling for easier moves, adds, and changes
- Large front finger openings easily accommodate Category 6A and Category 6 cables, speeding installation and reducing maintenance costs
- Rear cable management finger spacing utilizes open D-rings for greater accessibility
- Can be used to create large capacity horizontal pathways for routing cable
- Front and rear dual hinged cover allows cable access without removing cover
- Built in cable retainers hold cable in place for easy moves, adds, and changes

Cable Canacity



NM2



NMF2



NMF3



NMF4

			Cable C	Cable Capacity	
		No. of Rack	Cat.6A (0.300")	Cat.6 (0.240")	Std. Pkg.
Part Number	Part Description	Spaces‡	Front	/Rear	Qty.
19" High Cap	acity Manager, Front and Rear				
NM1	1 RU. 1.7"H x 19.0"W x 13.1"D (44mm x 482mm x 332mm).	1	18/18	30/30	1
NM2	2 RU. 3.5"H x 19.0"W x 13.1"D (88mm x 482mm x 332mm).	2	54/54	84/84	1
NM3	3 RU. 5.2"H x 19.0"W x 13.1"D (133mm x 482mm x 332mm).	3	90/90	144/144	1
NM4	4 RU. 7.0"H x 19.0"W x 13.1"D (177mm x 482mm x 332mm).	4	132/132	210/210	1
19" High Cap	acity Manager, Front Only				
NMF1	1 RU. 1.7"H x 19.0"W x 6.2"D (44mm x 482mm x 157mm).	1	18	30	1
NMF2	2 RU. 3.5"H x 19.0"W x 6.2"D (88mm x 482mm x 157mm).	2	54	84	1
NMF3	3 RU. 5.2"H x 19.0"W x 6.2"D (133mm x 482mm x 157mm).	3	90	144	1
NMF4	4 RU. 7.0"H x 19.0"W x 6.2"D (177mm x 482mm x 157mm).	4	132	210	1
Accessories		'			
NM1B	Front to rear pass through blanking panel for NetManager™ High Capacity Horizontal Cable Managers, NM1 and NMF1.	_	_	_	1
NM2B	Front to rear pass through blanking panel for NetManager™ High Capacity Horizontal Cable Managers, NM2 and NMF2.	_	_	_	1
NM3B	Front to rear pass through blanking panel for NetManager™ High Capacity Horizontal Cable Managers, NM3 and NMF3.	_	_	_	1
NM4B	Front to rear pass through blanking panel for NetManager™ High Capacity Horizontal Cable Managers, NM4 and NMF4.	_	_	_	1

Capacities are based on a fill ratio of 40% to accommodate proper cable routing techniques. For 50% fill ratio, multiply by 1.25. Multiply Category 6A capacity by 1.5 for fill ratio when using Panduit® Category 6A-SD cable. ‡One rack space = 1.75" (44.45mm).

All product color is black.

PatchRunner™ High Capacity Horizontal Cable Managers

- Adjustable depth for pathway utilization or fan avoidance cable crossover
- Manage cables on switches with vertical cards
- Can be used to create cable pathways for routing cable
- Steel hinged cover provides easy access to pathway



Part Number	Part Description	No. of Rack Spaces‡	Cat6.A (0.300") Front	Cat.6 (0.240")	Std. Pkg. Qty.
PEHF2	3.5"H x 18.9"W x 9.8"D*(89mm x 480mm x 250mm*)	2	92	143	1
PEHF3	5.2"H x 18.9"W x 9.8"D* (133mm x 480mm x 250mm*)	3	166	259	1
PEHF4	7.0"H x 18.9"W x 9.8"D* (177mm x 480mm x 250mm*)	4	240	375	1

^{*}Depth can telescope from rack mounting face 4.4" (112mm) to 7.6" (193mm).

Cable Capacity

Capacities are based on a fill ratio of 40% to accommodate proper cable routing techniques. For 50% fill ratio, multiply by 1.25. Multiply Category 6A capacity by 1.5 for fill ratio when using Panduit® Category 6A-SD cable. ‡One rack space = 1.75" (44.45mm).

All product color is black.

Horizontal Cable Management Systems

PatchLink™ Horizontal Cable Managers

- Dual hinged cover allows cable access without removing cover
- Rounded edges on fingers protect cables from snags and damage to cable
- Flexible fingers allow easy installation and removal of cables
- · Pass-through holes allow front to rear cabling
- Covers, #12-24 and M6 mounting screws included
- · Bulk package options minimize packaging on-site



WMPSE



WMP1E



WMPFSE



WMPF1E

		No. of	Cable Capacity		
			Cat.6 (0.240")	Cat.5e (0.225")	Std. Pkg.
Part Number	Part Description	Spaces‡	Front	/Rear	Qty.
19" Manager, From	nt and Rear				
WMPSE	1.7"H x 19.0"W x 8.9"D (44mm x 483mm x 226mm).	1	24/25	30/44	1
WMPSE-X		1			10
WMPLSE	1.7"H x 19.0"W x 7.9"D (44mm x 483mm x 200mm).	1	12/13	16/44	1
WMP1E	3.5"H x 19.0"W x 8.9"D (89mm x 483mm x 226mm).	2	60/79	66/90	1
WMP1E-V		2			5
WMPH2E	3.5"H x 20.2"W x 8.9"D (89mm x 513mm x 226mm). Includes extended front covers and two bend radius clips.	2	60/59	66/66	1
19" Manager, From	nt Only				
WMPFSE	1.7"H x 19.0"W x 3.7"D (44mm x 483mm x 94mm).	1	24	30	1
WMPFSE-E		1			20
WMPLFSE	1.7"H x 19.0"W x 2.7"D (44mm x 483mm x 69mm).	1	12	16	1
WMPF1E	3.5"H x 19.0"W x 3.7"D (89mm x 483mm x 94mm).	2	60	66	1
WMPF1E-X		2			10
WMPHF2E	3.5"H x 20.2"W x 3.7"D (89mm x 573mm x 94mm). Includes extended front covers and two bend radius clips.	2	60	66	1

Capacities are based on fill ratio of 40% to accommodate proper cable routing techniques. For 50% fill ratio, multiply by 1.25. ‡One rack space = 1.75" (44.45mm).

All product color is black.

NetManager™ Horizontal Cable Managers

- Removable front cover hinges 180° up or down to allow access without removing cover
- · Pass-through holes allow for front to rear cabling
- Built in cable retainers hold cable in place for easy moves, adds, and changes
- Covers, #12-24 and M6 mounting screws included
- Curved finger surfaces designed to maintain bend radius for fiber and copper



NCMH2



NCMHF1

			Ca			
Part Number Part Description		No. of Rack Spaces‡	Cat.6 (0.240")	Cat.5e (0.225") Front/Rea	Fiber (3mm)	Std. Pkg. Qty.
19" Manager, From	•	ориссот				
NCMH2	3.5"H x 19.0"W x 9.8"D (88mm x 483mm x 248mm). Snap-on rear cover.	2	54/66	60/78	220/352	1
19" Manager, Fro	nt Only	,				
NCMHF1	1.7"H x 19.0"W x 3.7"D (44mm x 483mm x 95mm).	1	24	24	88	1
NCMHF2	3.5"H x 19.0"W x 3.7"D (88mm x 483mm x 95mm).	2	54	60	220	1

Capacities are based on a fill ratio of 40% to accommodate proper cable routing techniques. For 50% fill ratio, multiply by 1.25. ‡One rack space = 1.75" (44.45mm).

All product color is black.

Horizontal Cable Management Systems

Open-Access™ Horizontal Cable Managers

- . D-ring managers provide an open and efficient way to manage power, coaxial, and communications cables
- · Optional snap-on cover

- · Optional front and rear managers
- · Pass-through holes allow front to rear cabling

Cable Canacity

· Hardware included





			Cable C			
Part Number	Part Description	No. of Rack Spaces‡	Cat.6 (0.240")	Cat.5e (0.225")	Std. Pkg. Qty.	
19" Manager, Fro	nt Only					
CMPHF1	1.7"H x 19.0"W x 3.4"D (44mm x 483mm x 87mm).	1	24	24	1	
CMPHHF1	1.7"H x 19.0"W x 5.7"D (44mm x 483mm x 144mm).	1	24	30	1	
CMPHF2	3.5"H x 19.0"W x 3.4"D (88mm x 483mm x 87mm).	2	54	60	1	
CMPHH2	3.5"H x 19.0"W x 5.7"D (88mm x 483mm x 144mm).	2	96	108	1	
Canacities are based of	n a fill ratio of 40% to accommodate proper cable routing technic	upe For 50%	fill ratio mu	Itinly by 1 25		

Capacities are based on a fill ratio of 40% to accommodate proper cable routing techniques. For 50% fill ratio, multiply by 1.25. ‡One rack space = 1.75" (44.45mm). All product color is black.



CMPHF2



Rack Mount Shelves for 2 Post Racks

• Load ratings up to 250 lbs.; refer to part descriptions for specific load ratings



SRM19FM2



SRM19CMV3



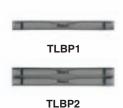
SRM19X18A1

Part Number	Part Description	No. of Rack Spaces‡	Std. Pkg. Qty.
SRM19FM1	19" front mount shelf, steel. Dimensions: 1.7"H x 19.0"W x 15.2"D (44mm x 483mm x 385mm). Load rating 30 lbs. (13.6 kg).	1	1
SRM19FM2	19" front mount shelf, steel. Dimensions: 3.5"H x 19.0"W x 15.2"D (88mm x 483mm x 385mm). Load rating 50 lbs. (22.7 kg).	2	1
SRM19CMV3	19" cantilevered shelf, vented aluminum. Includes two-piece shelf that mounts to front and back of EIA racks. Dimensions: 5.2"H x 19.2"W x 12.5"D (133mm x 489mm x 316mm). Load rating 200 lbs. (90.9 kg).	3	1
SRM19CM3	19" cantilevered shelf, aluminum. Includes two-piece shelf that mounts to front and back of EIA racks. Dimensions: 5.2"H x 19.2"W x 12.5"D (133mm x 489mm x 316mm). Load rating 200 lbs. (90.9 kg).	3	1
SRM19X18A1	19" adjustable mount shelf, steel, mounts to front and back of EIA racks. Dimensions: 1.8"H x 19.0"W x 18.0"D (44mm x 483mm x 457mm). Load rating 250 lbs. (113.6 kg).	1	1
SRM19X25A1	19" adjustable mount shelf, steel, mounts to front and back of EIA racks. Dimensions: 1.8"H x 19.0"W x 25.0"D (44mm x 483mm x 635mm). Load rating 250 lbs. (113.6 kg).	1	1

‡One rack space = 1.75" (44.45mm). All product color is black.

Tool-Less Blanking Panels

· Minimize bypass airflow in racks and cabinets while providing an aesthetic appearance



Part Number	Part Description	No. of Rack Spaces‡	Std. Pkg. Qty.
TLBP1S-V	19" (483mm) width for 3/8" cage nut holes.	1	5
TLBP2S-V	19" (483mm) width for 3/8" cage nut holes.	2	5
TLBP1R-V	19" (483mm) width for tapped rails.	1	5
TLBP2R-V	19" (483mm) width for tapped rails.	2	5

‡One rack space = 1.75" (44.45mm). All product color is black.

PatchRunner™ High Capacity Vertical Cable Manager

Specifications

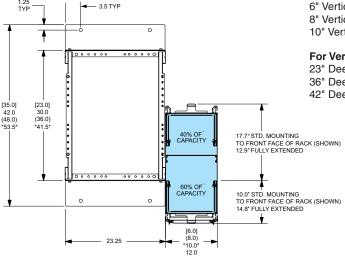
- Dual-sided cable managers, having 60% of total cable capacity on one side and 40% on the other, allow optimized capacity placement on either side of the rack
- Cable managers have multiple mounting locations to the side of the rack, allowing optimal cable routing and space utilization
- When using a dual-sided cable manager in an inter-connect network architecture, the 60% side of the cable manager can be orientated towards the patching side of the rack to manage a higher number of patch cords
- When using a dual-sided cable manager in a cross-connect network architecture, the 60% side of the cable manager can be orientated towards the cabling side of the rack to manage a higher number of cables

	6	0% Capacity	y Chann	el		40% Capacity Channel					RU Capacity		
Part Number	Channel Area (In.²)	Cat.6A-SD		Cat.6 (0.240")	Cat.5e (0.225")		Cat.6A-SD (0.240")		Cat.6 (0.240")	Cat.5e (0.225")		Total	
PEV6 (dual-sided) PEVF6 (single-sided)	64.8	531	340	531	605	46.2 —	357 —	228 —	357 —	406 —	3 rows of 2 RU	6	
PEV8 (dual-sided) PEVF8 (single-sided)	83.4	733	469	733	834	65 —	501 —	320 —	501 —	570 —	3 rows of 3 RU	9	
PEV10 (dual-sided) PEVF10 (single-sided)	121	936	599	936	1065	83.4	644 —	412 —	644 —	733 —	3 rows of 4 RU	12	
PEV12 (dual-sided) PEVF12 (single-sided)	147	1137	728	1137	1294	102 —	789 —	505 —	789 —	897 —	3 rows of 6 RU (6 with limited depth)	12/18	

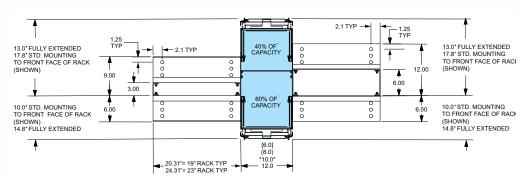
^{*}Capacities are based on a fill ratio of 35% to accommodate proper cable routing techniques. For 50% fill ratio, multiply by 1.5. Multiply Category 6A capacity by 1.5 for fill ratio when using Panduit Category 6A-SD cable.

All dimensions represent typical outer cable diameter in inches (mm).

4 Post Rack



2 Post Rack



For Horizontal Dimensions:

6" Vertical Manager dimensions shown in brackets $[\dots]$ 8" Vertical Manager dimensions shown in parenthesis (\dots)

10" Vertical Manager dimensions shown in Asterisk*...*

For Vertical Dimensions:

23" Deep 4 Post Rack dimensions shown in brackets [...]

36" Deep 4 Post Rack dimensions shown in parenthesis (\ldots)

42" Deep 4 Post Rack dimensions shown in Asterisk*...*

NetRunner™ High Capacity Vertical Cable Manager

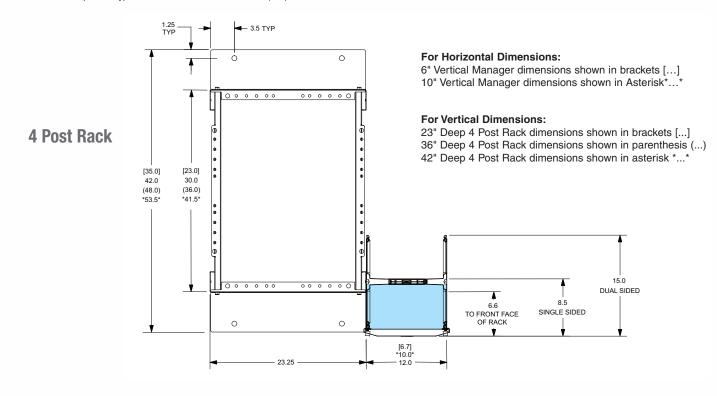
Specifications

- NetRunner[™] High Capacity Vertical Cable Managers are specifically designed for cable capacities typically found in telecommunication rooms using medium to large enterprise switches
- Optional strain relief bars can be mounted vertically inside the cable managers to create distinct pathways to better manage multiple types of network media

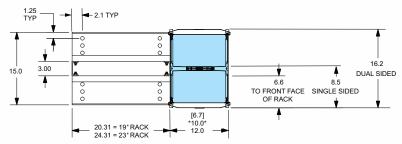
Capacity Chart	Front	Front Channel with Slack Spool					hannel	Rear Channel							
		Cable Capacity*					Cable Capacity*					Cable Capacity*			
	Channel Area (In²)	Cat.6A- SD (0.240")	Cat.6A			Channel Area (In²)	Cat.6A- SD (0.240")	Cat.6A	Cat.6 (0.240")		Channel Area (In²)	Cat.6A- SD (0.240")	Cat.6A	Cat.6 (0.240"	Cat.5e)(0.225")
NRV6 (front/rear)	23.3	180	115	180	205	32.9	254	163	254	289	32.9	254	163	254	289
NRVF6 (front only)	23.3	180	115	180	205	32.9	254	163	254	289	_	_	_	_	_
NRV10 (front/rear)	42.8	331	212	331	377	52.4	406	260	406	461	52.4	406	260	461	461
NRVF10 (front/only)	42.8	331	212	331	377	52.4	406	260	406	461	_	_	_	_	_
NRV12 (front/rear)	54.6	422	270	422	481	64.2	497	318	497	565	64.2	497	318	565	565
NRVF12 (front only)	54.6	422	270	422	481	64.2	497	318	497	565	_	_	_	_	_

*Capacities are based on a fill ratio of 35% to accommodate proper cable routing techniques. For 50% fill ratio, multiply by 1.5. Multiply Category 6A capacity by 1.5 for fill ratio when using Panduit Category 6A-SD cable.

All dimensions represent typical outer cable diameter in inches (mm).







Real-World Solutions

With a proven reputation for excellence and innovation, Panduit and our partners work with you to overcome challenges and implement real-world solutions that create a competitive business advantage. Panduit offers the broadest range of solutions, from data centers and intelligent buildings to manufacturing operations, to help you build a **smarter, unified business foundation.**



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Panduit develops innovative physical infrastructure solutions that meet the rapidly changing needs of our clients, from hardware and software to advisory services. This commitment is supported by investment in advanced research, solutions-focused product development, world-class manufacturing, and collaboration with customers at the forefront of technology.



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Our best-in-class partner ecosystem offers a comprehensive portfolio of services that span the project lifecycle, from planning and design to delivery, deployment, maintenance, and operation. Panduit business partners – distributors, and certified architects, consultants, engineers, designers, system integrators, and contractors – are qualified to help you achieve your objectives and realize predictable and measurable results.



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Panduit is committed to delivering a consistently high level of quality and service the world over. With a presence in more than 100 countries, local Panduit sales representatives and technical specialists offer guidance and support that bring value to your business. Our global supply chain, which includes manufacturing, customer service, logistics, and distribution partners, provides prompt response to your inquiries and streamlines delivery to any worldwide destination.



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Panduit Corp.
World Headquarters
Tinley Park, IL 60487

cs@panduit.com US and Canada: 800.777.3300 Europe, Middle East, and Africa: 44.20.8601.7200 Latin America: 52.33.3777.6000 Asia Pacific: 65.6305.7575

www.panduit.com

