PANDUIT®

QuickNet™ Harness Cable Assemblies Solution Guide for Switching Applications

QuickNet™ Harness Cable Assemblies Solution Guide for Switching Applications

An end-to-end pre-terminated cabling system is an ideal solution for data centers especially when time for traditional cable installation, termination, and testing is limited. Pre-terminated cable assemblies offer a simple plug-and-go solution for links between LAN switches, SAN switches, servers, patch panels, and zone distribution areas, for new installations or to enable easy additions to current infrastructure.
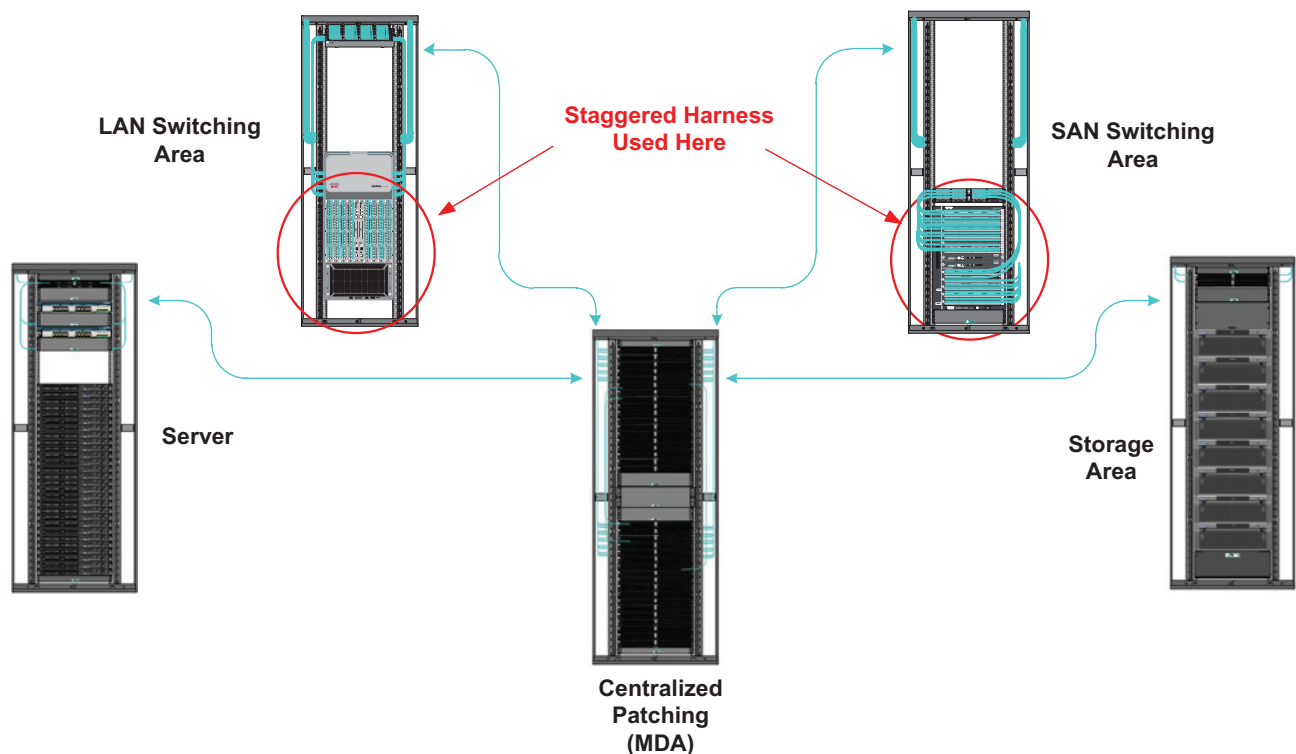
QuickNet™ Staggered Harness Assemblies allow for rapid deployment of multi-port patch field connectivity in high-density Storage Area Network (SAN) and Data Center LAN applications. Built with modular MPO connectivity and traditional LC connectivity, these assemblies provide compatibility, flexibility and system performance ensuring efficient use of cabinets and horizontal and vertical pathways through a small form factor cable. All QuickNet™ Staggered Harness Cable Assemblies are factory terminated and tested to deliver verified optical performance and reliability. OM3 fiber versions provide 10 Gb/s Ethernet network performance up to 300 meters* and 16Gb/s Fiber Channel network performance up to 100 meters*. OM4 fiber versions provide 10 Gb/s Ethernet network performance up to 400 meters‡ and 16Gb/s Fiber Channel network performance up to 125 meters*. QuickNet™ Staggered Harness Assemblies are available as individual harness cable assemblies that are switch and application specific for improved design flexibility.

*Stated reach valid when total link connector loss and media bandwidth is compliant with applicable standards (IEEE 802.3ae & ANSI FC-PI-6).
‡For "engineered" link of 1.0dB max total connector loss.

Overall View of Data Center Cable Deployment

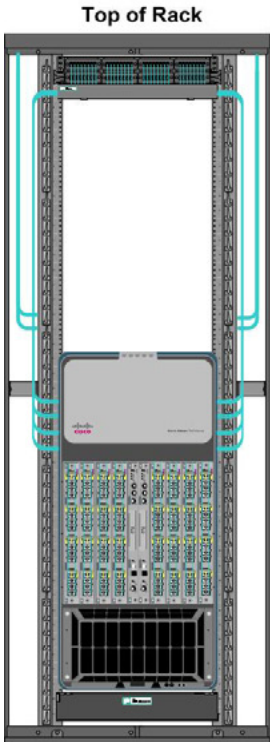**LAN Switching Area**

Staggered Harness Used Here

SAN Switching Area

Server

Storage Area

Centralized Patching (MDA)

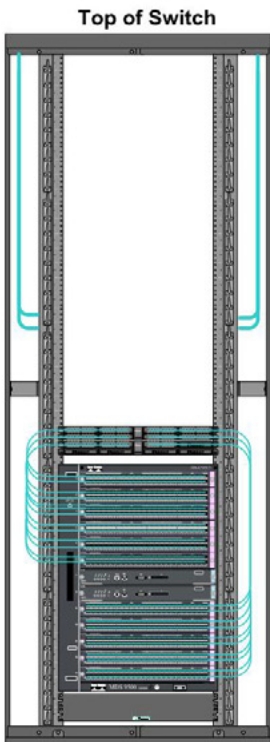| Brand	Product Name		No. of Blades	Blade Type	OM3* Staggered Harness Assembly Part Number	Notes
				Ethernet Switching		
Cisco	**Nexus 7009**		7	10 GbE 48-port	FXTRP8NUJSNxxxx* left to right (pairs 1 and 2 shortest)	8-12F Harnesses per Blade
				10 GbE 32-port	FX8RP8NUJSNxxxx* left to right (pairs 1 and 2 shortest)	8-8F Harnesses per Blade
	Nexus 7010 (vertical blades)		8	10 GbE 48-port	FXTRP8NUJSNxxxx* bottom to top (pairs 1 and 2 shortest)	8-12F Harnesses per Blade
				10 GbE 32-port	FX8RP8NUJSNxxxx* bottom to top (pairs 1 and 2 shortest)	8-8F Harnesses per Blade
	Nexus 7018 (horizontal blades)		16	10 GbE 48-port	FXTRP8NUJSNxxxx* left to right (pairs 1 and 2 shortest)	8-12F Harnesses per Blade
				10 GbE 32-port	FX8RP8NUJSNxxxx* left to right (pairs 1 and 2 shortest)	8-8F Harnesses per Blade
	9508		8	10G 16-port	FX8HP6NLGSNM*** left to right (pair one shortest)	4-8F Harnesses per Blade
				10G 24-port	FXTHP6NLGSNM*** left to right (pair one shortest)	6-12F Harnesses per Blade
				10G 48-port	FXTHP6NLGSNM*** left to right (pair one shortest)	8-12F Harnesses per Blade

Brand	Product Name		No. of Blades	Blade Type	OM3* Staggered Harness Assembly Part Number	OM3* Staggered Harness Assembly Part Number	Notes
				Fiber Channel Switching			
Cisco	**MDS 9513 (horizontal blades)**		11	4G, 8G or 16G FC 48-port	FXTRP8NUJSNxxxx* left to right (pairs 1 and 2 shortest)	FXTRP8NUHSNxxxx* right to left (pairs 1 and 2 longest)	8-12F Harness per Blade
	MDS 9509 (horizontal blades)		7	4G, 8G or 16G FC 48-port	FXTRP8NUJSNxxxx left to right (pairs 1 and 2 shortest)	FXTRP8NUHSNxxxx* right to left (pairs 1 and 2 longest)	8-12F Harness per Blade
	MDS 9506 (horizontal blades)		4	4G, 8G or 16G FC 48-port	FXTRP8NUJSNxxxx* left to right (pairs 1 and 2 shortest)	FXTRP8NUHSNxxxx* right to left (pairs 1 and 2 longest)	8-12F Harness per Blade

*Harnesses are available in lengths of 1-30m or 3-100F. xxxx represents length starting with UOM (F/M) followed by 3 digit length.
OM3 Staggered Harness Assembly is listed. For OM4 Staggered Harness Assembly, replace "X" in part number with "Z".
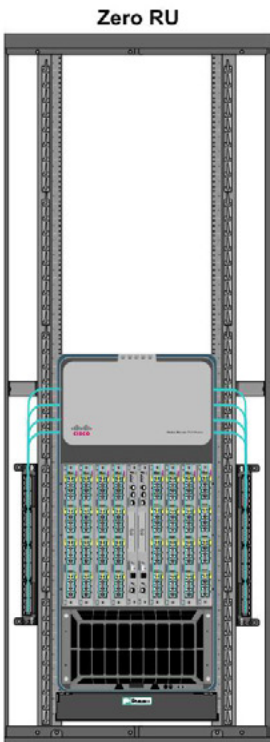Example: FXTRP8NUJSNxxxx would be FZTRP8NUJSNxxxx.

QuickNet™ Harness Cable Assemblies Switch Configurations

Top of Rack

QPP48HDBL
FPPAV812BLMTP
or
CFAPPBL2
FAPH8W12BLMTP

Top of Switch

QPP48HDBL
FPPAV812BLMTP
or
CFAPPBL2
FAPH8W12BLMTP

Zero RU

CVPPB
QPP24BL
FPPAV812BLMTP
or
CVPPB
CFAPPBL1
FAPH8W12BLMTP

Part Numbers	Descriptions
QPP24BL	QuickNet™ 24-Port Patch Panel
QPP48HDBL	QuickNet™ 48-Port High Density Patch Panel
CFAPPBL1	1 RU Standard Fiber Adapter Panel
CFAPPBL2	2 RU Standard Fiber Adapter Panel
FAPH8W12BLMTP	QuickNet™ MTP* Fiber Adapter Panel
FPPAV812BLMTP	QuickNet™ SFQ MTP Fiber Adapter Panel
CVPPB	Mounting Bracket for Vertical Mounting

About Panduit

Panduit is a world-class developer and provider of leading-edge solutions that help customers optimize the physical infrastructure through simplification, increased agility and operational efficiency. Panduit's Unified Physical Infrastructure^{SM} (UPI) based solutions give Enterprises the capabilities to connect, manage and automate communications, computing, power, control and security systems for a smarter, unified business foundation. Panduit provides flexible, end-to-end solutions tailored by application and industry to drive performance, operational and financial advantages. Panduit's global manufacturing, logistics, and e-commerce capabilities along with a global network of distribution partners help customers reduce supply chain risk. Strong technology relationships with industry leading systems vendors and an engaged partner ecosystem of consultants, integrators and contractors together with its global staff and unmatched service and support make Panduit a valuable and trusted partner.

www.panduit.com • **cs@panduit.com** • **800-777-3300**   FBAN07--WW-ENG   3/2014

Copyright and Trademark Information

Cisco and Cisco Systems are registered trademarks of Cisco Technology, Inc.

MTP is a registered trademark of US Conec Ltd.

NOTE: The information contained herein is intended as a guide for use by persons having technical skill at their own discretion and risk. Panduit disclaims any liability arising from any information contained herein or for the absence of same.