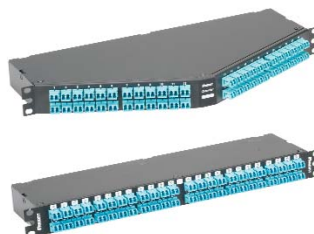


QuickNet™ HDQ Series High Density Fiber Optic Cassettes

specifications

Pre-terminated HDQ series fiber optic cassette shall comply with IEEE 802.3ae 10 GbE and ANSI T11.2 Fibre Channel requirements. Fiber optic cassettes shall support network data rates up to 10 Gb/s for link lengths up to 300 meters using laser optimized OM3 fiber, and up to 550 meters using laser optimized OM4 fiber. Optimized cassettes shall provide insertion loss no greater than 0.5dB, and standard cassettes shall provide insertion loss no greater than 0.75dB to meet IEEE 802.3ae max. channel loss specification of <2.6dB. Cassettes shall employ high performance MTP* connectors on the rear of the units routed to six or four duplex LC adapters on the patch field side. Adapter housing colors shall follow TIA/EIA-568-C.3 suggested identification scheme. Cassettes shall interconnect with high-density SFF MTP* ribbon interconnect cable assemblies. High density cassettes shall mount into 19" wide telecommunications racks, allowing 144 fiber connections to be deployed in one rack unit (1 RU) without additional support infrastructure.



technical information

Standards requirements:	Connectivity meets or exceeds TIA/EIA-568-C.3 performance requirements Supports IEEE 802.3ae (10 Gigabit Ethernet) and ANSI T11.2 (Fibre Channel) channel and link specifications MTP* connector exceeds TIA/EIA-455-21A: 1000 mating cycles (multimode)
Split sleeve material:	Zirconia ceramic
Insertion loss:	Optimized (per fiber): 0.5dB max. Standard (per fiber): 0.75dB max.
Return loss:	Per fiber ≥26dB (10Gig™ multimode)

key features and benefits

Optimized performance enhancement	Unique, industry-leading proprietary MTP* polishing processes; optimized connector-to-connector mating resulting in 0.5dB max. insertion loss
High-density design	Maximizes density with up to 144 fiber connections in 1RU for efficient utilization of rack space; design features provides lower total cost of ownership; reduces or eliminates the need for additional infrastructure support
MTP* 12-fiber connector	Provides reduced overall insertion loss with low channel to channel variability for improved channel link loss performance
Verified optical performance	100% tested; provides consistent high performance and reliability for improved network integrity
Pre-terminated modular cassette system	Provides improved reliability and quick deployment to reduce installation time and cost
Certified 10 GbE OM3 and OM4 performance	10Gig™ Fiber Optic Cassettes are tested per IEEE 802.3ae 10 GbE to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters at 850nm for OM3 fiber, and for link lengths up to 550 meters for OM4 fiber; meets Fibre Channel standards when used with Panduit® Opti-Core® Fiber Optic Cables
Angled profile design (Panduit exclusive)	Angled patch field profile eases patch cord flow to vertical cable management; reduces or eliminates the need for horizontal cable managers; angled profile compatible with existing Panduit copper patch panels for uniform installations
Consistent port labeling mapping from switch blade to patch field	Product configurations port mapped specifically for Cisco‡ and Brocade‡‡ switch blades; customer can design the fiber cable distribution port labels consistent with specific switch blade manufacturer conventions
QuickNet™ product identification	Data label on each product includes port identification and Q.C. number for quick identification and 100% traceability
Adapter housing colors follow TIA/EIA-568-C.3 suggested color identification scheme	Adapters are aqua for 10Gig™ 50/125µm OM3 and OM4 fiber enabling fast, accurate identification of fiber channels for easy moves, adds, and changes

applications

The QuickNet™ HDQ Series Fiber Optic Cassette is a component of the QuickNet™ Fiber Optic Cabling System. QuickNet™ HDQ Series Fiber Optic Cassettes are used in high-density network applications as specified in the Data Center Cabling Standard TIA 942 for cross connects in main distribution, horizontal distribution, and equipment distribution areas. The QuickNet™ Pre-Terminated Cabling System meets the demands of Gigabit Ethernet, 10 Gigabit Ethernet, and high-speed Fibre Channel systems while maintaining compatibility with Ethernet, Fast Ethernet, and ATM. QuickNet™ HDQ Series Fiber Optic Cassettes are

pre-terminated and designed to mount into 19" wide telecommunications racks allowing 96 fiber connections to be deployed in one rack unit (1 RU) without additional support infrastructure. This ensures efficient use of space, quick deployment, and the highest reliability for the lowest installed cost. This space saving one rack unit package provides port mapped compatibility with the SAN market switch blade leaders, Cisco‡ and Brocade‡‡. The Panduit High Density Fiber Cassette solution will provide increased access between ports, thus enabling the ease of moves, adds, and changes.

www.panduit.com

PANDUIT®

SPECIFICATION SHEET

QuickNet™ HDQ Series High Density Fiber Optic Cassettes - B-Type Port Labeling

10Gig™ 50/125µm OM4:	F1RBZN-9608-10^
Optimized 10Gig™ 50/125µm OM4:	F1RBZO-9608-10^
10Gig™ 50/125µm OM3:	F1RBXN-9608-10^
Optimized 10Gig™ 50/125µm OM3:	F1RBXO-9608-10^

QuickNet™ HDQ Series High Density Fiber Optic Cassettes - C-Type Port Labeling

10Gig™ 50/125µm OM4:	F1RCZN-9612-10^
Optimized 10Gig™ 50/125µm OM4:	F1RCZO-9612-10^
10Gig™ 50/125µm OM3:	F1RCXN-9612-10^
Optimized 10Gig™ 50/125µm OM3:	F1RCXO-9612-10^

QuickNet™ HDQ Series Angled High Density Fiber Optic Cassettes - S-Type Port Labeling

10Gig™ 50/125µm OM3:	F1ASXN-1A12-10^
10Gig™ 50/125µm optimized OM3:	F1ASXO-1A12-10^
10Gig™ 50/125µm OM3:	F1ASXN-9612-10^
Optimized 10Gig™ 50/125µm OM3:	F1ASXO-9612-10^
10Gig™ 50/125µm OM4:	F1ASZN-1A12-10^
10Gig™ 50/125µm optimized OM4:	F1ASZO-1A12-10^
10Gig™ 50/125µm OM4:	F1ASZN-9612-10^
Optimized 10Gig™ 50/125µm OM4:	F1ASZO-9612-10^

QuickNet™ MTP* Trunk Cable Assemblies

12-fiber:	FSPX1255F^^A
24-fiber:	FSPX2455F^^A
48-fiber:	FSPX4855F^^A

QuickNet™ MTP* Interconnect Cable Assemblies (Female MTP* to Female MTP*)

12-fiber:	FX12D5-5M^^Y
------------------	--------------

QuickNet™ Cassette Rear Cable Manager

Supports up to 2 RU:	FQRCRM
-----------------------------	--------

QuickNet™ Cassette MTP* Cleaning Tool

For all MTP* connectors:	FIBCCCT
---------------------------------	---------

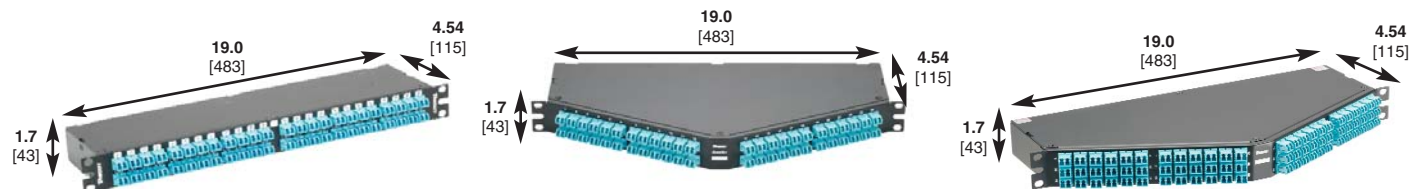
Reel Type MTP* Connector Cleaning Tools

Female MTPs*:	FMTPFCT
Male MTPs*:	FMTMPFCT
Reel refill (qty. 6):	FMTPRR6

*MTP is a registered trademark of US Conec Ltd.
‡Cisco is a registered trademark of Cisco Technology, Inc.
‡‡Brocade is a registered trademark of Brocade Communications Systems, Inc.
^Use S for Standard Polarity and F for Flipped Polarity.
^^100, 150, and 200 ft. are standard lengths; additional lengths are available. Contact Customer Service for actual lead times.

QuickNet™ HDQ Series High Density Fiber Optic Cassettes

cassette detail



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

ordering information

Part Number	Faceplate Profile	Port Mapping	Fiber Type	Insertion Loss	Return Loss
96 Fiber High Density Cassette					
F1RBXN-9608-10^	Straight	B-Type (Brocade)	10Gig™ 50/125µm OM3	0.75dB max.	>26dB
F1RBXO-9608-10^			Optimized 10Gig™ 50/125µm OM3	0.5dB max.	
F1RCXN-9612-10^		C-Type (Cisco)	10Gig™ 50/125µm OM3	0.75dB max.	
F1RCXO-9612-10^			Optimized 10Gig™ 50/125µm OM3	0.5dB max.	
F1RBZN-9608-10^		B-Type (Brocade)	10Gig™ 50/125µm OM4	0.75dB max.	
F1RBZO-9608-10^			Optimized 10Gig™ 50/125µm OM4	0.5dB max.	
F1RCZN-9612-10^		C-Type (Cisco)	10Gig™ 50/125µm OM4	0.75dB max.	
F1RCZO-9612-10^			Optimized 10Gig™ 50/125µm OM4	0.5dB max.	
F1ASXN-9612-10^	Angled	S-Type	10Gig™ 50/125µm OM3	0.75dB max.	>26dB
F1ASXO-9612-10^			Optimized 10Gig™ 50/125µm OM3	0.5dB max.	
F1ASZN-9612-10^			10Gig™ 50/125µm OM4	0.75dB max.	
F1ASZO-9612-10^			Optimized 10Gig™ 50/125µm OM4	0.5dB max.	
144 Fiber High Density Cassette					
F1ASXN-1A12-10^	Angled	S-Type	10Gig™ 50/125µm OM3	0.75dB max.	>26dB
F1ASXO-1A12-10^			Optimized 10Gig™ 50/125µm OM3	0.5dB max.	
F1ASZN-1A12-10^			10Gig™ 50/125µm OM4	0.75dB max.	
F1ASZO-1A12-10^			Optimized 10Gig™ 50/125µm OM4	0.5dB max.	

^Substitute S for Standard or F for Flipped for cassette polarity.
C-type maps to Cisco Technology, Inc switches.
B-type maps to Brocade Communications Systems, Inc. switches.
S-type is not specific to any switch manufacturer.

related products



**QuickNet™ MTP* Trunk
Cable Assemblies**



**QuickNet™ MTP* Interconnect
Cable Assemblies**



**QuickNet™ Cassette Rear
Cable Manager**

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

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

For more information

Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com
or by phone: 800-777-3300 and reference FBSP43

PANDUIT®

©2011 Panduit Corp.
ALL RIGHTS RESERVED.

WW-FBSP43

7/2011