QuickNet™ MTP* Fiber Optic Cassettes

PANDUIT®

SPECIFICATION SHEET

specifications

Pre-terminated high-density modular fiber optic cassettes shall comply with IEEE 802.3ae 10GbE 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 link lengths up to 550 meters using OM4 fiber. Optimized cassettes shall provide insertion loss of 0.5dB max., and standard cassettes shall provide 1.0dB max. to meet IEEE 802.3ae max. channel loss specification of <26dB. Cassettes shall employ high performance MTP* connectors on the rear of the units routed to 12 or 24 duplex LC, or 12 simplex or 6 duplex SC adapters on the patch field side. Adapter housing colors shall follow TIA/EIA-568-C.3 suggested color identification scheme. Cassettes shall interconnect with high-density SFF MTP* ribbon interconnect cable assemblies. High-density cassette enclosures shall hold up to 4 cassettes, allowing up to 96 fiber connections to be deployed in one rack unit (1 RU).



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) and 500 mating cycles (singlemode)
Split sleeve material: cassettes	Zirconia ceramic: Optimized 10Gig™ and 10Gig™ OM3 and OM4 multimode OS1/OS2 singlemode cassettes
	Phosphor bronze: OM1 and OM2 multimode cassettes
Insertion loss:	Optimized (per fiber): 0.5dB max.
	Standard (per fiber): 0.75dB typical, 1.0dB max.
Return loss:	Per fiber: ≥ 26dB (10Gig™ multimode), ≥ 20bB (multimode), ≥55dB (singlemode)

key features and benefits

Optimized performance available	Optical performance enhancement through unique industry-leading proprietary MTP* polishing processes
	Optimized connector-to-connector mating resulting in 0.5dB max. insertion loss
High-density modular design	Maximizes density with up to 96 fiber connections in 1RU for efficient utilization of rack space
	Design flexibility allows for easy maintenance and upgrade, providing a highly scalable solution
	Combination of design features provides lower total cost of ownership
MTP* 12-fiber connector	Provides reduced overall insertion loss with low channel to channel variability for improved channel link loss performance
100% tested	Verified optical performance 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 for OM3 and link lengths up to 550 meters for OM4
	Meets Fibre Channel standards when used with Panduit® Opti-Core® Fiber Optic Cables
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/EIS- 568-C.3 suggest color indentification scheme	Adapters are aqua for 10Gig™ 50/125µm OM3 and OM4, black for 50/125µm OM2, electric ivory for 62.5/125µm OM1, and blue for 9/125µm OS1/OS2 fiber enabling fast, accurate identification of fiber channels for easy moves, adds, and changes

applications

The QuickNet™ MTP* Fiber Optic Cassette is a component of the QuickNet™ Fiber Optic Cabling System. QuickNet™ MTP* 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. The high-density modular design fits into Opticom® QuickNet™ Rack Mount Fiber Cassette Enclosures to ensure efficient use of space and rapid network deployment.

*MTP is a registered trademark of US Conec Ltd.

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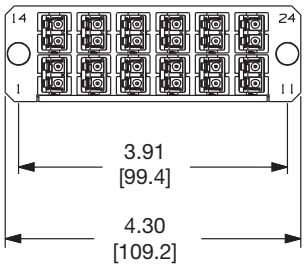
QuickNet™ Optimized 10Gig™ 50/125µm OM3 and OM4 MTP* Fiber Optic Cassettes	
6 LC to MTP* (12-fiber):	FCZO-12-10Y
12 LC to 2 MTP* (24-fiber):	FCZO-24-10Y
6 SC to MTP* (12-fiber):	FCZO-12-3Y
6 LC to MTP* (12-fiber):	FCXO-12-10Y
12 LC to 2 MTP* (24-fiber):	FCXO-24-10Y
6 SC to MTP* (12-fiber):	FCXO-12-3Y
QuickNet™ 10Gig™ 50/125µm OM3 and OM4 MTP* Fiber Optic Cassettes	
6 LC to MTP* (12-fiber):	FCZ-12-10Y
12 LC to 2 MTP* (24-fiber):	FCZ-24-10Y
6 SC to MTP* (12-fiber):	FCZ-12-3Y
6 LC to MTP* (12-fiber):	FCX-12-10Y
12 LC to 2 MTP* (24-fiber):	FCX-24-10Y
12 SC to MTP* (12-fiber):	FCX-12-3SY
6 SC to MTP* (12-fiber):	FCX-12-3Y
QuickNet™ 50/125µm OM2 MTP* Fiber Optic Cassettes	
6 LC to MTP* (12-fiber):	FC5-12-10Y
12 LC to 2 MTP* (24-fiber):	FC5-24-10Y
12 SC to MTP* (12-fiber):	FC5-12-3SY
6 SC to MTP* (12-fiber):	FC5-12-3Y
QuickNet™ 62.5/125µm OM1 MTP* Fiber Optic Cassettes	
6 LC to MTP* (12-fiber):	FC6-12-10Y
12 LC to 2 MTP* (24-fiber):	FC6-24-10Y
12 SC to MTP* (12-fiber):	FC6-12-3SY
6 SC to MTP* (12-fiber):	FC6-12-3Y
Opticom® QuickNet™ 9/125µm OS1/OS2 MTP* Fiber Optic Cassettes	
6 LC to MTP* (12-fiber):	FC9-12-10Y
12 LC to 2 MTP* (24-fiber):	FC9-24-10Y
12 SC to MTP* (12-fiber):	FC9-12-3SY
6 SC to MTP* (12-fiber):	FC9-12-3Y
QuickNet™ MTP* Interconnect Cable Assemblies	
MTP* to MTP* (12-fiber):	F^12D5-5M‡Y
Opticom® QuickNet™ Rack Mount Fiber Cassette Enclosures	
1 RU, holds 4 cassettes:	FCE1U
1RU, open access, holds 4 cassettes:	FCE1UA
2 RU, holds 8 cassettes:	FCE2U
4 RU, holds 12 cassettes:	FCE4U
Opticom® Zero RU Bracket	
Angled, 90°, adhesive and magnetic mount:	FEABRUA
Std., screw mount:	FEABRU
Opti-Core® Fiber Optic Patch Cords	
Duplex LC to LC:	F^E10-10M‡Y
Simplex SC to SC:	F^S3-3M‡Y
Duplex SC to SC:	F^D3-3M‡Y
Patch Cord/Cassette Removal Tool	
For LC, SC and ST:	PCRT1
QuickNet™ Cassette MTP* Cleaning Tool	
All MTP* Connectors:	FIBCCT
Reel Type MTP* Connector Cleaning Tools	
Female MTPs*:	FMTPFCT
Male MTPs*:	FMTPMFCT
Reel refill (qty. 6):	FMTPRR6

^Substitute for fiber type: Z (OM4 – 10Gig™ 50/125µm), X (OM3 – 10Gig™ 50/125µm), 5 (OM2 – 50/125µm), 6 (OM1 – 62.5/125µm) and 9 (OS1/OS2 – 9/125µm).

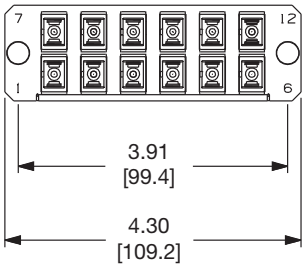
‡Substitute for length in meters: 1-10, 15, 20, 25 or 30. Contact Customer Service for other available lengths.

QuickNet™ MTP* Fiber Optic Cassettes

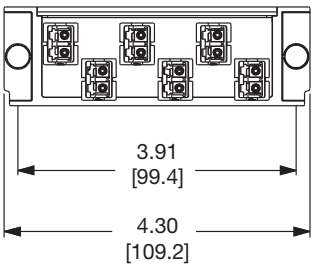
FC^-24-10Y
12 LC Duplex Adapters
to 2 MTP* Connectors



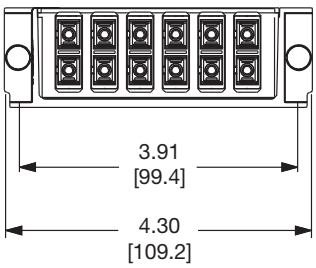
FC^-12-3SY
12 SC Simplex Adapters
to 1 MTP* Connector

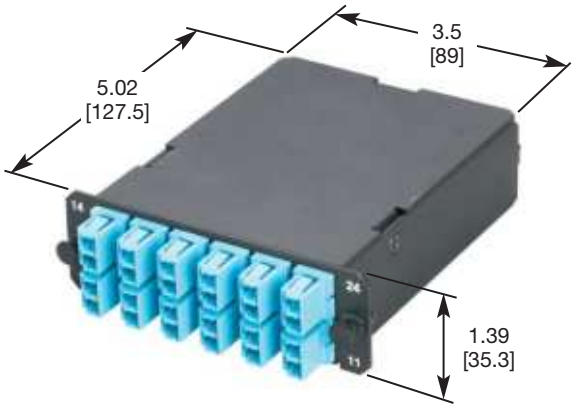


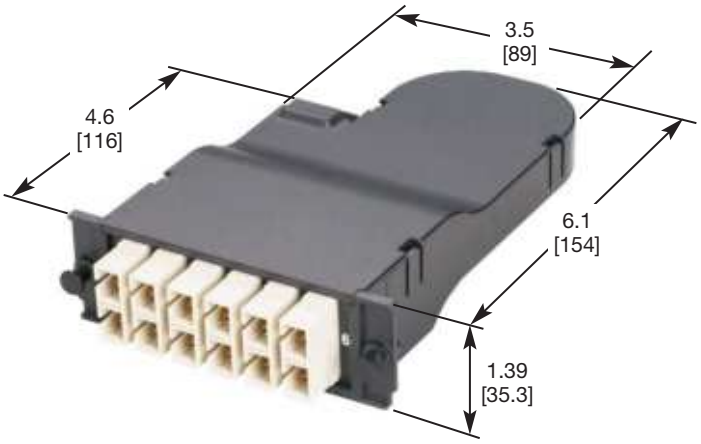
FC^-12-10Y
6 LC Duplex Adapters
to 1 MTP* Connector



FC^-12-3Y
6 SC Duplex Adapters
to 1 MTP* Connector







Dimensions are in inches [Dimensions in brackets are in millimeters]

QuickNet™ MTP*
Trunk Cable Assemblies



FSP^2455▲▲▲A

QuickNet™ MTP* Interconnect
Cable Assemblies



F^12D5-5M‡

Opticom® QuickNet™ Rack Mount Fiber
Cassette Enclosures



FCE1U

*MTP is a registered trademark of US Conec Ltd.
^Substitute for fiber type: Z (OM4 – 10Gig™ 50/125µm), X (OM3 – 10Gig™ 50/125µm), 5 (OM2 – 50/125µm), 6 (OM1 – 62.5/125µm) or 9 (OS1/OS2 – 9/125µm); add O after X for optimized 10Gig™ Cassettes with a maximum insertion loss of 0.5dB.
▲▲▲Substitute for length in feet from 001 – 999 feet. Replace F with M for length in meters from 0 – 300m). Cable assembly lengths are measured as the distance between the furthest connector tips. Length tolerance is +4 feet (1.2m)/-0 for lengths up to 100 feet (30m), and +6 feet (1.8m)/-0 for lengths greater than 100 feet (30m).
‡Substitute for length in meters: 1 – 10, 15, 20, 25 or 30. Contact Customer Service for other available lengths.

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
Jalisco, 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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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 FBSP37

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