QuickNet™ MTP® Fiber Optic Cassettes

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 (singlomode)
Split sleeve material: cassettes Zirconia ceramic: Optimized 10Gig™ and 10Gig™ OM3 and OM4 multimode OS1/OS2 singlomode 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), >20dB (multimode), >55dB (singlomode)

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/EIA- 568-C.3
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.

www.panduit.com

QuickNet™ Optimized 10Gig™ 50/125μm OM3 and OM4 MTP® Fiber Optic Cassettes
6 LC to MTP® (12-fiber): FC9-6-12Y
12 LC to 2 MTP® (24-fiber): FC9-12-24Y
6 SC to MTP® (12-fiber): FC9-6-12Y
12 SC to MTP® (12-fiber): FC9-12-12Y
6 LC to MTP® (12-fiber): FC9-6-12Y
12 LC to 2 MTP® (24-fiber): FC9-12-24Y
6 SC to MTP® (12-fiber): FC9-6-12Y
12 SC to MTP® (12-fiber): FC9-12-12Y

QuickNet™ 10Gig™ 50/125μm OM3 and OM4 MTP® Fiber Optic Cassettes
6 LC to MTP® (12-fiber): FC9-6-12Y
12 LC to 2 MTP® (24-fiber): FC9-12-24Y
6 SC to MTP® (12-fiber): FC9-6-12Y
12 SC to MTP® (12-fiber): FC9-12-12Y
6 LC to MTP® (12-fiber): FC9-6-12Y
12 LC to 2 MTP® (24-fiber): FC9-12-24Y
6 SC to MTP® (12-fiber): FC9-6-12Y
12 SC to MTP® (12-fiber): FC9-12-12Y

QuickNet™ 50/125μm OM2 MTP® Fiber Optic Cassettes
6 LC to MTP® (12-fiber): FC9-6-12Y
12 LC to 2 MTP® (24-fiber): FC9-12-24Y
6 SC to MTP® (12-fiber): FC9-6-12Y
12 SC to MTP® (12-fiber): FC9-12-12Y
6 LC to MTP® (12-fiber): FC9-6-12Y
12 LC to 2 MTP® (24-fiber): FC9-12-24Y
6 SC to MTP® (12-fiber): FC9-6-12Y
12 SC to MTP® (12-fiber): FC9-12-12Y

Opticom® QuickNet™ 9/125μm OS1/OS2 MTP® Fiber Optic Cassettes
6 LC to MTP® (12-fiber): FC9-6-12Y
12 LC to 2 MTP® (24-fiber): FC9-12-24Y
6 SC to MTP® (12-fiber): FC9-6-12Y
12 SC to MTP® (12-fiber): FC9-12-12Y
6 LC to MTP® (12-fiber): FC9-6-12Y
12 LC to 2 MTP® (24-fiber): FC9-12-24Y
6 SC to MTP® (12-fiber): FC9-6-12Y
12 SC to MTP® (12-fiber): FC9-12-12Y

QuickNet™ MTP® Interconnect Cable Assemblies
MTP® to MTP® (12-fiber): F12D5-5MY
Opticom® QuickNet™ Rack Mount Fiber Cassette Enclosures
1 RU, holds 4 cassettes: FCE1U
1 RU, open access, holds 4 cassettes: FCE1UA
2 RU, holds 8 cassettes: FCE2U
4 RU, holds 12 cassettes: FCE4U
Opticom® Zero RU Bracket
Angles, 90°, and magnetic mount: FEABRJA
Opti-Core® Fiber Optic Patch Cords
Duplex LC to LC: FE10-10MY
Simplex SC to SC: FS3-3MY
Duplex SC to SC: FD3-3MY
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*: FMTFPCT
Male MTPs*: FMTFMPCT
Reel fill (qty. 6): FMTPR5
*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* Connectors

**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

QuickNet™ MTP* Interconnect
Cable Assemblies

Opticom® QuickNet™ Rack Mount Fiber
Cassette Enclosures

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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