

specifications

Pre-terminated high-density modular fiber optic cassettes 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 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 6 or 4 duplex LC or 3 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 patch panels shall hold up to 8 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-B.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:	Zirconia ceramic: Optimized 10Gig™ and 10Gig™ OM3 and OM4 multimode cassettes 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), ≥20dB (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
Patent pending, modular cassette design	One form factor cassette for copper and fiber offers design flexibility, and easy maintenance and upgrade, enabling a unified, highly scalable pre-terminated solution
High-density design	Maximizes density with up to 96 fiber connections in 1RU for efficient utilization of rack space 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 at 850nm 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 suggested color identification 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™ SFQ Series MTP* Fiber Optic Cassette is a component of the QuickNet™ Fiber Optic Cabling System. QuickNet™ SFQ Series 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. QuickNet™ SFQ Series Fiber Optic Cassettes and QuickNet™ Copper Cable Assemblies are interchangeable within QuickNet™ Angled and Standard Patch Panels, enabling deployment flexibility and a unified pre-terminated solution. This ensures efficient use of space, quick deployment and the highest reliability for the lowest installed cost.

*MTP is a registered trademark of US Conec Ltd.

QuickNet™ SFQ Series Optimized 10Gig™ 50/125µm OM3 and OM4 MTP* Cassettes

6 LC to MTP* (12-fiber): FQXO-12-10
4 LC to MTP* (8-fiber): FQXO-8-10
3 SC to MTP* (6-fiber): FQXO-6-3

QuickNet™ SFQ Series 10Gig™ 50/125µm OM3 and OM4 MTP* Cassettes

6 LC to MTP* (12-fiber): FQX-12-10
4 LC to MTP* (8-fiber): FQX-8-10
3 SC to MTP* (6-fiber): FQX-6-3
6 LC to MTP* (12-fiber): FQZ-12-10
4 LC to MTP* (8-fiber): FQZ-8-10
3 SC to MTP* (6-fiber): FQZ-6-3

QuickNet™ SFQ Series 50/125µm OM2 MTP* Cassettes

6 LC to MTP* (12-fiber): FQ5-12-10
4 LC to MTP* (8-fiber): FQ5-8-10
3 SC to MTP* (6-fiber): FQ5-6-3

QuickNet™ SFQ Series 62.5/125µm OM1 MTP* Cassettes

6 LC to MTP* (12-fiber): FQ6-12-10
4 LC to MTP* (8-fiber): FQ6-8-10
3 SC to MTP* (6-fiber): FQ6-6-3

QuickNet™ SFQ Series 9/125µm OS1/OS2 MTP* Cassettes

6 LC to MTP* (12-fiber): FQ9-12-10
4 LC to MTP* (8-fiber): FQ9-8-10
3 SC to MTP* (6-fiber): FQ9-6-3

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

12-fiber: FSP^1255F^AAA
24-fiber: FSP^2455F^AAA
48-fiber: FSP^4855F^AAA

QuickNet™ Hydra Cable Assemblies (Male MTP* to LC Duplex)

12-fiber: FHP^126LM^AAA-N

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

12-fiber: F^12D5-5M^IY

QuickNet™ Patch Panels

Angled 24-port: QAPP24BL
Angled 48-port: QAPP48HDBL
Standard 24-port: QPP24BL
Standard 48-port: QPP48HDBL

QuickNet™ Zero RU Cassette Bracket

Holds 2 cassettes: FQCBRUA

QuickNet™ Cassette MTP* Cleaning Tool

All MTP* connectors: FIBCCCT

Reel Type MTP* Connector Cleaning Tools

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

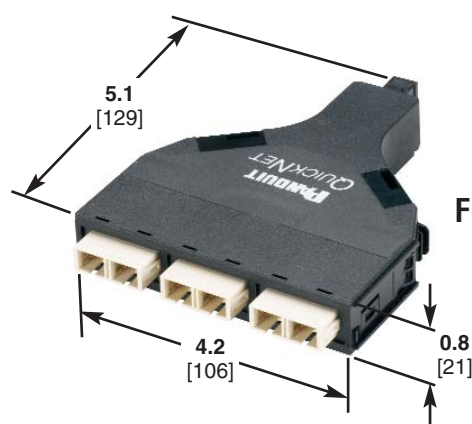
^Substitute for fiber type:
Z (OM4 - 10Gig™ 50/125µm)
X (OM3 - 10Gig™ 50/125µm), 5 (OM2 - 50/125µm), 6 (OM1 - 62.5/125µm) or 9 (OS1/OS2 - 9/125µm).
***Substitute for length in feet or meters up to 999 feet or 300 meters.
‡Substitute for length in meters: 1-10, 15, 20, 25 or 30.
Contact Customer Service for other available lengths.

QuickNet™ SFQ Series MTP* Fiber Optic Cassettes

ordering information



FQ[^]-12-10



FQ[^]-6-3

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

Part Number	No. of Fibers	Adapter Color	Fiber Type	Insertion Loss	Return Loss
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6 LC Duplex Adapters to Male MTP*

FQXO-12-10	12 (up to 96 fibers per RU)	Aqua	Optimized 10Gig™ 50/125µm OM3	0.5dB max.	≥ 26dB
FQX-12-10		Aqua	10Gig™ 50/125µm OM3	0.75dB max.	≥ 26dB
FQZ-12-10		Aqua	10Gig™ 50/125µm OM4	0.75dB max.	≥ 26dB
FQ5-12-10		Black	50/125µm OM2	0.75dB max.	≥ 20dB
FQ6-12-10		Electric Ivory	62.5/125µm OM1	0.75dB max.	≥ 20dB
FQ9-12-10		Blue	9/125µm OS1/OS2	0.75dB max.	≥ 55dB

4 LC Duplex Adapters to Male MTP*

FQXO-8-10	8 (up to 64 fibers per RU)	Aqua	Optimized 10Gig™ 50/125µm OM3	0.5dB max.	≥ 26dB
FQX-8-10		Aqua	10Gig™ 50/125µm OM3	0.75dB max.	≥ 26dB
FQZ-8-10		Aqua	10Gig™ 50/125µm OM4	0.75dB max.	≥ 26dB
FQ5-8-10		Black	50/125µm OM2	0.75dB max.	≥ 20dB
FQ6-8-10		Electric Ivory	62.5/125µm OM1	0.75dB max.	≥ 20dB
FQ9-8-10		Blue	9/125µm OS1/OS2	0.75dB max.	≥ 55dB

3 SC Duplex Adapters to Male MTP*

FQXO-6-3	6 (up to 48 fibers per RU)	Aqua	Optimized 10Gig™ 50/125µm OM3	0.5dB max.	≥ 26dB
FQX-6-3		Aqua	10Gig™ 50/125µm OM3	0.75dB max.	≥ 26dB
FQZ-6-3		Aqua	10Gig™ 50/125µm OM4	0.75dB max.	≥ 26dB
FQ5-6-3		Black	50/125µm OM2	0.75dB max.	≥ 20dB
FQ6-6-3		Electric Ivory	62.5/125µm OM1	0.75dB max.	≥ 20dB
FQ9-6-3		Blue	9/125µm OS1/OS2	0.75dB max.	≥ 55dB

QuickNet™ MTP* Trunk Cable Assemblies



FSP[^]2455F[^]AAA

QuickNet™ MTP* Interconnect Cable Assemblies



F[^]12D5-5M[‡]

QuickNet™ Patch Panels



QAPP48HDBL/QPP48HDBL

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^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.

AAA 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.

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For more information

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or by phone: 800-777-3300 and reference FBSP35

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