QuickNet™ MTP* Interconnect Cable Assemblies – Plenum (OFNP) Rated

specifications

RoHS compliant MTP* interconnect cable assemblies shall include one factory-terminated female MTP* 12-fiber connector on each end of laser optimized OM3 fiber and OM4 fiber or OM1, OM2 or OS1 fiber. Jacketed cable is compliant with NFPA 262 (OFNP) flame rating. MTP* interconnect cable assemblies shall meet or exceed the requirements of TIA/EIA-568-B.3. The MTP* 12-fiber connector shall exceed the requirements of TIA/EIA-455-21A for 500 mating cycles. The MTP* connector finishing process shall deliver uniform fiber height, low insertion loss and excellent return loss performance across the 12-fiber interface.

technical information

Standards requirements:	MTP* connector exceeds TIA/EIA-455-21A: 1000 mating cycles (multimode) and 500 mating cycles (singlemode)
	Compliant with: TIA/EIA-568-B.3 and ISO/IEC 11801 IEC-61754-7 (International) TIA-604-5 (FOCIS-5) NFPA 262 (OFNP) flame rating
Insertion loss:	Per mated pair: 0.50dB typical; 0.75dB max. (multimode and singlemode)
Return loss:	20dB min. (multimode); 26dB min. (10Gig™ multimode); 55dB min. (singlemode)

key features and benefits

High-density 12-fiber ribbon cable	Enables an easy and well organized high-density installation with design flexibility and lower installation costs
Plenum rated jacket	Meets NFPA 262 (OFNP) flame rating for standard compliant safety
MTP* 12-fiber connector	Easily connects network segments to reduce deployment time, improve reliability, and make maintenance easier
FOCIS-5 compliant and backward compatible	Assures performance with existing compliant MPO devices for cost effective integration
MTP* mechanical design	Precision plug yields lower average insertion loss for improved optical performance
	Interface design improvements assure durability and reliability
Proprietary polishing process	Unique MTP* connector termination enhancements deliver uniform fiber height across the 12-fiber interface
	Helps optimize connector to connector mating resulting in low insertion loss and excellent return loss performance
Variety of fiber cable configurations	Supports 10 GbE, multimode, and singlemode applications for design flexibility
Certified 10 GbE performance	10Gig™ MTP* Interconnect Cable Assemblies are tested per IEEE 802.3ae 10 GbE to support network transmission speeds up to 10 Gb/s for link lengths up to 300m for OM3 and up to 500 meters for OM4 at 850nm to assure high performance and reliability
Test data supplied with each cable assembly	Establishes a performance reference to streamline maintenance and troubleshooting

applications

The QuickNet™ MTP* Interconnect Cable Assembly is a component of the QuickNet™ Fiber Optic Cabling System. Pre-terminated 12-fiber MTP* interconnect cable assemblies are used in high-density network applications to interconnect pre-terminated cassettes in main distribution, horizontal distribution, and equipment distribution areas. The QuickNet™ System meets the demands of Gigabit Ethernet, 10 Gigabit Ethernet, and high speed Fibre Channel systems while maintaining compatibility with Ethernet, Fast Ethernet, FDDI 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.

QuickNet™ Plenum (OFNP) Multimode MTP* Interconnect Cable Assemblies

OM4 – 10Gig™ 50/125µm:	FZ12D5-5M*
OM3 – 10Gig™ 50/125µm:	FX12D5-5M‡Y
OM2 – 50/125µm:	F512D5-5M‡Y
OM1 – 62.5/125µm:	F612D5-5M‡Y

QuickNet™ Plenum (OFNP) Singlemode MTP* Interconnect Cable Assemblies

OS1 – 9/125µm:	F912D5-5M‡Y

QuickNet™ Optimized 10Gig™ 50/125µm OM3 Pre-Terminated MTP* Cassettes

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 Pre-Terminated MTP* 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 Pre-Terminated MTP* 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 Pre-Terminated MTP* 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

QuickNet™ 9/125µm OS1 Pre-Terminated MTP* 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

Opticom® QuickNet™ Rack Mount Fiber Cassette Enclosures

1 RU enclosure:	FCE1U
2 RU enclosure:	FCE2U
4 RU enclosure:	FCE4U

Opti-Core® Riser (OFNR) 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

Opti-Core® Plenum (OFNP) Fiber Optic Patch Cords

Duplex LC to LC:	F^PE10-10M‡
Simplex SC to SC:	F^PS3-3M‡
Duplex SC to SC:	F^PD3-3M‡

^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 – 9/125µm).
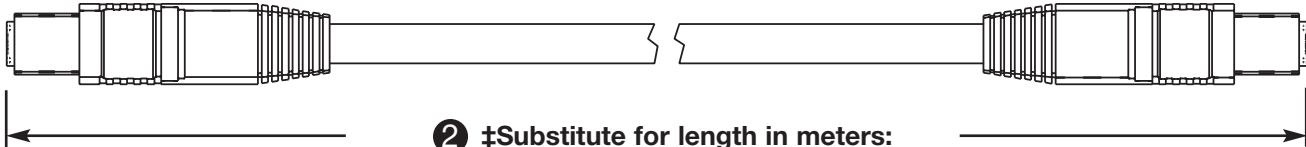
‡Substitute for length in meters: 1m – 10m, or 15m – 30m in increments of 5m. Contact Customer Service for other available lengths or male MTPs*.

The following base part number can be used for all QuickNet™ MTP* Interconnect Cable Assemblies (OFNP) by substituting ❶ the required fiber type for ^, and ❷ the required length in meters for ‡.

❶ ❷
F^12D5-5M‡Y

❶ **^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 – 9/125µm).

❷ **‡Substitute for length in meters:**
1m – 10m, or 15m – 30m in increments of 5m.

Example: FX12D5-5M30Y = QuickNet™ 10Gig™ OFNP MTP* Interconnect Cable Assembly OM3 – 10 GbE 50/125µm, female MTP* connectors on both ends, 30m in length.

Note: All QuickNet™ MTP* Interconnect Cable Assemblies follow Method 'A' polarity per TIA/EIA-568-B.1-7 (key up, key down, straight through).

Part Number	Cable Type and Color	Connector Type and Color
FZ12D5-5M‡	Multimode plenum rated OM4 (10Gig™ 50/125µm) 12-fiber ribbon cable – aqua. OD: 5mm x 2.5mm	Multimode female MTP* – electric ivory with black boots.
FX12D5-5M‡Y	Multimode plenum rated OM3 (10Gig™ 50/125µm) 12-fiber ribbon cable – aqua.	Multimode female MTP* – electric ivory with black boots.
F512D5-5M‡Y	Multimode plenum rated OM2 (50/125µm) 12-fiber ribbon cable – orange.	Multimode female MTP* – electric ivory with black boots.
F612D5-5M‡Y	Multimode plenum rated OM1 (62.5/125µm) 12-fiber ribbon cable – orange.	Multimode female MTP* – electric ivory with black boots.
F912D5-5M‡Y	Singlemode plenum rated OS1 (9/125µm) 12-fiber ribbon cable – yellow.	Singlemode female MTP* – green with black boots.

QuickNet™ Pre-Terminated MTP* Cassettes	**Opticom® QuickNet™ Rack Mount Fiber Cassette Enclosure**	**Opti-Core® Fiber Optic Patch Cords (OFNR)**
FC^-24-10Y **FQ^-12-10**	**FCE1U**	**F^E10-10M‡Y**

^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 – 9/125µm).
For plenum (OFNP) rated cable, place a P after the fiber type (^) and drop the Y.
‡Substitute for length in meters: 1m – 10m, or 15m – 30m in increments of 5m. Contact Customer Service for other available lengths.
*MTP is a registered trademark of US Conec Ltd.

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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 FBSP23

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