

## 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

<b>Standards requirements:</b>	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
<b>Insertion loss:</b>	Per mated pair: 0.50dB typical; 0.75dB max. (multimode and singlemode)
<b>Return loss:</b>	20dB min. (multimode); 26dB min. (10Gig™ multimode); 55dB min. (singlemode)

## key features and benefits

<b>High-density 12-fiber ribbon cable</b>	Enables an easy and well organized high-density installation with design flexibility and lower installation costs
<b>Plenum rated jacket</b>	Meets NFPA 262 (OFNP) flame rating for standard compliant safety
<b>MTP* 12-fiber connector</b>	Easily connects network segments to reduce deployment time, improve reliability, and make maintenance easier
<b>FOCIS-5 compliant and backward compatible</b>	Assures performance with existing compliant MPO devices for cost effective integration
<b>MTP* mechanical design</b>	Precision plug yields lower average insertion loss for improved optical performance Interface design improvements assure durability and reliability
<b>Proprietary polishing process</b>	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
<b>Variety of fiber cable configurations</b>	Supports 10 GbE, multimode, and singlemode applications for design flexibility
<b>Certified 10 GbE performance</b>	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
<b>Test data supplied with each cable assembly</b>	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.

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

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

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

<b>OS1 – 9/125µm:</b>	F912D5-5M*Y
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### QuickNet™ Optimized 10Gig™ 50/125µm OM3 Pre-Terminated MTP\* Cassettes

<b>6 LC to MTP* (12-fiber):</b>	FCXO-12-10Y
<b>12 LC to 2 MTP* (24-fiber):</b>	FCXO-24-10Y
<b>6 SC to MTP* (12-fiber):</b>	FCXO-12-3Y

### QuickNet™ 10Gig™ 50/125µm OM3 and OM4 Pre-Terminated MTP\* Cassettes

<b>6 LC to MTP* (12-fiber):</b>	FCZ-12-10Y
<b>12 LC to 2 MTP* (24-fiber):</b>	FCZ-24-10Y
<b>6 SC to MTP* (12-fiber):</b>	FCZ-12-3Y
<b>12 LC to 2 MTP* (24-fiber):</b>	FCX-12-10Y
<b>12 LC to 2 MTP* (24-fiber):</b>	FCX-24-10Y
<b>12 SC to MTP* (12-fiber):</b>	FCX-12-3SY
<b>6 SC to MTP* (12-fiber):</b>	FCX-12-3Y

### QuickNet™ 50/125µm OM2 Pre-Terminated MTP\* Cassettes

<b>6 LC to MTP* (12-fiber):</b>	FC5-12-10Y
<b>12 LC to 2 MTP* (24-fiber):</b>	FC5-24-10Y
<b>12 SC to MTP* (12-fiber):</b>	FC5-12-3SY
<b>6 SC to MTP* (12-fiber):</b>	FC5-12-3Y

### QuickNet™ 62.5/125µm OM1 Pre-Terminated MTP\* Cassettes

<b>6 LC to MTP* (12-fiber):</b>	FC6-12-10Y
<b>12 LC to 2 MTP* (24-fiber):</b>	FC6-24-10Y
<b>12 SC to MTP* (12-fiber):</b>	FC6-12-3SY
<b>6 SC to MTP* (12-fiber):</b>	FC6-12-3Y

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

<b>6 LC to MTP* (12-fiber):</b>	FC9-12-10Y
<b>12 LC to 2 MTP* (24-fiber):</b>	FC9-24-10Y
<b>12 SC to MTP* (12-fiber):</b>	FC9-12-3SY
<b>6 SC to MTP* (12-fiber):</b>	FC9-12-3Y

### Opticom® QuickNet™ Rack Mount Fiber Cassette Enclosures

<b>1 RU enclosure:</b>	FCE1U
<b>2 RU enclosure:</b>	FCE2U
<b>4 RU enclosure:</b>	FCE4U

### Opti-Core® Riser (OFNR) Fiber Optic Patch Cords

<b>Duplex LC to LC:</b>	F^E10-10M*Y
<b>Simplex SC to SC:</b>	F^S3-3M*Y
<b>Duplex SC to SC:</b>	F^D3-3M*Y

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

<b>Duplex LC to LC:</b>	F^PE10-10M*‡
<b>Simplex SC to SC:</b>	F^PS3-3M‡
<b>Duplex SC to SC:</b>	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).

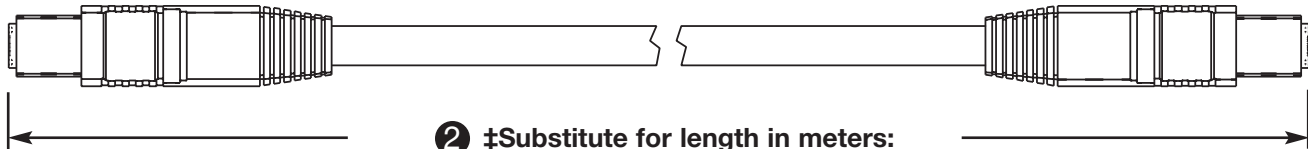
‡Substitute for length in meters: 1m – 10m, or 15m – 30m in increments of 5m. Contact Customer Service for other available lengths or male MTPs\*.

# QuickNet™ MTP\* Interconnect Cable Assemblies (OFNP)

The following base part number can be used for all QuickNet™ MTP\* Interconnect Cable Assemblies (OFNP) by substituting ① the required fiber type for ^, and ② the required length in meters for ‡.

① **F<sup>^</sup>12D5-5M<sup>‡</sup>Y**

- ① **^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).



- ② **‡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 <sup>‡</sup>	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 <sup>‡</sup> Y	Multimode plenum rated OM3 (10Gig™ 50/125µm) 12-fiber ribbon cable – aqua.	Multimode female MTP* – electric ivory with black boots.
F512D5-5M <sup>‡</sup> Y	Multimode plenum rated OM2 (50/125µm) 12-fiber ribbon cable – orange.	Multimode female MTP* – electric ivory with black boots.
F612D5-5M <sup>‡</sup> Y	Multimode plenum rated OM1 (62.5/125µm) 12-fiber ribbon cable – orange.	Multimode female MTP* – electric ivory with black boots.
F912D5-5M <sup>‡</sup> Y	Singlemode plenum rated OS1 (9/125µm) 12-fiber ribbon cable – yellow.	Singlemode female MTP* – green with black boots.

## QuickNet™ Pre-Terminated MTP\* Cassettes



FC<sup>^</sup>-24-10Y

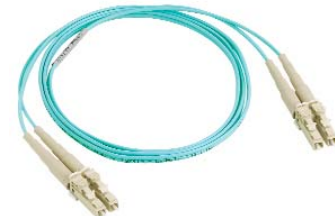
FQ<sup>^</sup>-12-10

## Opticom® QuickNet™ Rack Mount Fiber Cassette Enclosure



FCE1U

## Opti-Core® Fiber Optic Patch Cords (OFNR)



F<sup>^</sup>E10-10M<sup>^</sup>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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