

# QuickNet™ MTP\*/MPO Interconnect Round Cable Assemblies—Plenum (OFNP) Rated

# PANDUIT®

SPECIFICATION SHEET

## specifications

RoHS compliant MTP\*/MPO interconnect round cable assemblies shall include one factory-terminated female MTP\*/MPO 12-fiber connector on each end of laser optimized OM3 and OM4 fiber or OM1, OM2 or OS1/OS2 fiber. Jacketed cable is compliant with NFPA 262 (OFNP) flame rating. MTP\*/MPO interconnect round cable assemblies shall meet or exceed the requirements of TIA/EIA-568-C.3. The MTP\*/MPO 12-fiber connector shall exceed the requirements of TIA/EIA-455-21A for 500 mating cycles. The MTP\*/ MPO\* 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*/MPO connector exceeds TIA/EIA-455-21A: 1000 mating cycles (multimode) and 500 mating cycles (singlemode) Compliant with: TIA/EIA-568-C.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: 0.35dB typical; 0.5dB 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 round 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*/MPO 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*/MPO 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*/MPO 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*/MPO interconnect round 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 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\*/MPO interconnect round cable assembly is a component of the QuickNet™ Fiber Optic Cabling System. Pre-terminated 12-fiber MTP\*/MPO 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.

[www.panduit.com](http://www.panduit.com)

### QuickNet™ MTP\*/MPO Multimode Interconnect Round Cable Assemblies Female to Female – Plenum (OFNP) Rated

<b>OM4 —10Gig™</b>	
<b>50/125um:</b>	FZN0505RTPM001
<b>Optimized OM4 —10Gig™</b>	
<b>50/125um:</b>	FZP0505RTPM001
<b>OM3 —10Gig™</b>	
<b>50/125um:</b>	FXN0505RTPM001
<b>Optimized OM3 —10Gig™</b>	
<b>50/125um:</b>	FXP0505RTPM001
<b>OM2 —50/125um:</b>	F5N0505RTPM001

### QuickNet™ MTP\*/MPO Singlemode Interconnect Round Cable Assemblies Female to Female – Plenum (OFNP) Rated

<b>OS1/OS2 —9/125um:</b>	F9N0505RTPM001
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### QuickNet™ Optimized 10Gig™ 50/125um 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™ 50/125um OM3 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>6 LC to MTP* (12-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™ 50/125um 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™ 62.5/125um 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™ 9/125um 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^AE10-10M^Y
<b>Simplex SC to SC:</b>	F^AS3-3M^Y
<b>Duplex SC to SC:</b>	F^AD3-3M^Y

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

<b>Duplex LC to LC:</b>	F^APE10-10M^†
<b>Simplex SC to SC:</b>	F^APS3-3M^‡
<b>Duplex SC to SC:</b>	F^APD3-3M^‡

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

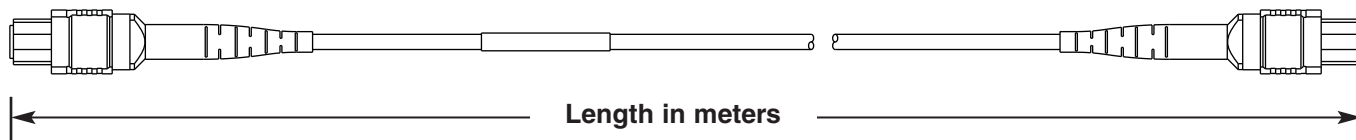
‡Substitute for length in meters: 1m – 50m in increments of one meter.

‡Substitute for length in feet: 1ft – 150ft. in increments of one foot.

Contact Customer Service for other available lengths or male MTPs\*.

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

## QuickNet™ MTP\*/MPO Interconnect Round Cable Assembly Detail



## Ordering Information

**Example description:** OM4 MTP\*/ MPO female to MTP\*/ MPO female round interconnect cable assembly, 12-fiber plenum rated, 1 meter

<b>F</b>	<b>Z</b>	<b>N</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>R</b>	<b>T</b>	<b>P</b>	<b>M</b>	<b>0</b>	<b>0</b>	<b>1</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>

<p><b>1 – Fiber</b> F - Standard</p> <p><b>2 – Fiber Type</b> Z = 50/125µm OM4 X = 50/125µm OM3 5 = 50/125µm 6 = 62.5/125µm 9 = 9/125µm OS1/OS2 singlemode</p> <p><b>3 – Quality</b> N = Standard P = Premium</p> <p><b>4 and 5 – Connectors (1 &amp; 2)</b> 05 = MTP*/MPO Female 06 = MTP*/MPO Male</p> <p><b>6 and 7 – Connectors (1 &amp; 2)</b> 05 = MTP*/MPO Female 06 = MTP*/MPO Male</p>	<p><b>8 – Jacket Diameter</b> R = Round</p> <p><b>9 – Fiber Count</b> 6 = 6-fiber 8 = 8-fiber T = 12-fiber</p> <p><b>10 – Jacket Rating</b> P = Plenum (OFNP) R = Riser (OFNR)</p> <p><b>11 – Unit of Measure</b> M = Meter F = Feet</p> <p><b>12, 13 and 14 – Length in Unit of Measure</b> 1m – 50m in meters in 1m increments 1ft – 150ft in feet in 1 ft increments</p>
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Notes: \*MTP is a registered trademark of US Conec Ltd.

**QuickNet™**  
**Pre-Terminated**  
**MTP\* Cassettes**



**FC^24-10Y**

**Fiber QuickNet™**  
**Rear Cable Manager**



**FQCRCM**

**Opticom® QuickNet™**  
**Rack Mount Fiber**  
**Cassette Enclosure**



**FCE1U**

**QuickNet™**  
**Patch Panels**



**QAPP24BL**  
**QAPP48BL**

^Substitute for fiber type: 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.

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