

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

Standards requirements:	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
Insertion loss:	Per mated pair: 0.35dB typical; 0.5dB max. (multimode and singlemode)
Return loss:	20dB min. (multimode); 26dB min. (10Gig™ multimode); 55dB min. (singlemode)

key features and benefits

High-density 12-fiber round 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*/MPO 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*/MPO 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*/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
Variety of fiber cable configurations	Supports 10 GbE, multimode, and singlemode applications for design flexibility
Certified 10 GbE performance	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
Test data supplied with each cable assembly	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.

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

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

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

OS1/OS2 —9/125um:	F9N0505RTPM001
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QuickNet™ Optimized 10Gig™ 50/125um 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™ 50/125um OM3 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™ 50/125um 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™ 62.5/125um 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™ 9/125um 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^AE10-10M^Y
Simplex SC to SC:	F^AS3-3M^Y
Duplex SC to SC:	F^AD3-3M^Y

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

Duplex LC to LC:	F^APE10-10M^†
Simplex SC to SC:	F^APS3-3M^‡
Duplex SC to SC:	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).

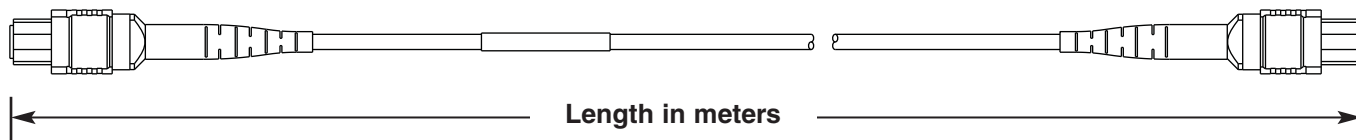
‡Substitute for length in meters: 1m – 50m in increments of one meter.

‡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

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

<p>1 – Fiber F - Standard</p> <p>2 – Fiber Type Z = 50/125µm OM4 X = 50/125µm OM3 5 = 50/125µm 6 = 62.5/125µm 9 = 9/125µm OS1/OS2 singlemode</p> <p>3 – Quality N = Standard P = Premium</p> <p>4 and 5 – Connectors (1 & 2) 05 = MTP*/MPO Female 06 = MTP*/MPO Male</p> <p>6 and 7 – Connectors (1 & 2) 05 = MTP*/MPO Female 06 = MTP*/MPO Male</p>	<p>8 – Jacket Diameter R = Round</p> <p>9 – Fiber Count 6 = 6-fiber 8 = 8-fiber T = 12-fiber</p> <p>10 – Jacket Rating P = Plenum (OFNP) R = Riser (OFNR)</p> <p>11 – Unit of Measure M = Meter F = Feet</p> <p>12, 13 and 14 – Length in Unit of Measure 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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