

specifications

RoHS compliant MTP* interconnect cable assemblies include one factory-terminated female MTP* 12-fibre connector on each end of laser optimised OM3/OM4 fibre or OM1, OM2 or OS1 fibre. Jacketed cable is compliant with IEC-60332 (LSZH) flame rating. MTP* interconnect cable assemblies meet or exceed the requirements of ISO/IEC 11801. The MTP* 12-fibre connector exceeds the requirements of TIA/EIA-455-21A for 500 mating cycles. The MTP* connector finishing process delivers uniform fibre height, low insertion loss and excellent return loss performance across the 12-fibre interface.



technical information

Standards requirements:	MTP* connector exceeds TIA/EIA-455-21A: 1000 mating cycles (multimode) and 500 mating cycles (singlemode) Compliant with: ISO/IEC 11801 and TIA/EIA-568-B.3 IEC-61754-7 (International) TIA-604-5 (FOCIS-5) IEC-60332 (LSZH) 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-fibre ribbon cable	Enables an easy and well organised high-density installation with design flexibility and lower installation costs
Low smoke zero halogen rated jacket	Meets IEC-60332 (LSZH) flame rating for standard compliant safety
MTP* 12-fibre 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 fibre height across the 12-fibre interface Helps optimise connector to connector mating resulting in low insertion loss and excellent return loss performance
Variety of fibre 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 550m 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™ Fibre Optic Cabling System. Pre-terminated 12-fibre 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

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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 Fibre Cassette Enclosures to ensure efficient use of space and rapid network deployment.

QuickNet™ LSZH Multimode MTP* Interconnect Cable Assemblies

OM4 – 10Gig™ 50/125µm:	FZL12D5-5M†
OM3 – 10Gig™ 50/125µm:	FXL12D5-5M†
OM2 – 50/125µm:	F5L12D5-5M†
OM1 – 62.5/125µm:	F6L12D5-5M†

QuickNet™ LSZH Singlemode MTP* Interconnect Cable Assemblies

OS1 – 9/125µm:	F9L12D5-5M†
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QuickNet™ Optimised 10Gig™ 50/125µm OM3/OM4 Pre-Terminated MTP* Cassettes

6 LC to MTP* (12-fibre):	FCZO-12-10Y
6 LC to MTP* (12-fibre):	FCXO-12-10Y
12 LC to 2 MTP* (24-fibre):	FCXO-24-10Y
6 SC to MTP* (12-fibre):	FCXO-12-3Y

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

6 LC to MTP* (12-fibre):	FCZ-12-10Y
6 LC to MTP* (12-fibre):	FCX-12-10Y
12 LC to 2 MTP* (24-fibre):	FCX-24-10Y
12 SC to MTP* (12-fibre):	FCX-12-3SY
6 SC to MTP* (12-fibre):	FCX-12-3Y

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

6 LC to MTP (12-fibre):	FC5-12-10Y
12 LC to 2 MTP (24-fibre):	FC5-24-10Y
12 SC to MTP (12-fibre):	FC5-12-3SY
6 SC to MTP (12-fibre):	FC5-12-3Y

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

6 LC to MTP (12-fibre):	FC6-12-10Y
12 LC to 2 MTP (24-fibre):	FC6-24-10Y
12 SC to MTP (12-fibre):	FC6-12-3SY
6 SC to MTP (12-fibre):	FC6-12-3Y

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

6 LC to MTP (12-fibre):	FC9-12-10Y
12 LC to 2 MTP (24-fibre):	FC9-24-10Y
12 SC to MTP (12-fibre):	FC9-12-3SY
6 SC to MTP (12-fibre):	FC9-12-3Y

Opti-Core™ QuickNet™ Rack Mount Fibre Cassette Enclosures

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

Opti-Core™ Low Smoke Zero Halogen (LSZH) Fibre Optic Patch Cords

Duplex LC to LC:	F^LE10-10M‡
Simplex SC to SC:	F^LS3-3M‡
Duplex SC to SC:	F^LD3-3M‡

^Substitute for fibre 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).

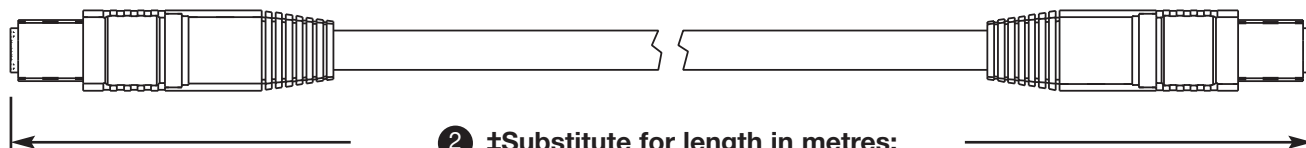
‡Substitute for length in metres: 1m – 10m, or 15m – 30m in increments of 5m. Contact Customer Service for other available lengths or male MTPs*.

QuickNet™ MTP* Interconnect Cable Assemblies (LSZH)

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

1 **F** **^** **L12D5-5M** **‡** **2**

1 ^Substitute for fibre type: Z (OM4 – 10Gig™ 50/125µm), X (OM3 – 10Gig™ 50/125µm), 5 (OM2 – 50/125µm), 6 (OM1 – 62.5/125µm) or 9 (OS1 – 9/125µm).



2 ‡Substitute for length in metres:
1m – 10m, or 15m – 30m in increments of 5m.

Example: FXL12D5-5M30 = QuickNet™ 10Gig™ LSZH 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 Colour	Connector Type and Colour
FZL12D5-5M‡	Multimode low smoke zero halogen rated OM4 (10Gig™ 50/125µm) 12-fibre ribbon cable — aqua.	Multimode female MTP* — electric ivory with black boots.
FXL12D5-5M‡	Multimode low smoke zero halogen rated OM3 (10Gig™ 50/125µm) 12-fibre ribbon cable — aqua.	Multimode female MTP* — electric ivory with black boots.
F5L12D5-5M‡	Multimode low smoke zero halogen rated OM2 (50/125µm) 12-fibre ribbon cable — orange.	Multimode female MTP* — electric ivory with black boots.
F6L12D5-5M‡	Multimode low smoke zero halogen rated OM1 (62.5/125µm) 12-fibre ribbon cable — orange.	Multimode female MTP* — electric ivory with black boots.
F9L12D5-5M‡	Singlemode low smoke zero halogen rated OS1 (9/125µm) 12-fibre ribbon cable — yellow.	Singlemode female MTP* — electric ivory with black boots.

QuickNet™ Pre-Terminated MTP* Cassettes



FC^–24-10Y

FQ^–12-10

Opticom™ QuickNet™ Rack Mount Fibre Cassette Enclosure



FCE1U

Opti-Core™ Fibre Optic Patch Cords (LSZH)



F^LE10-10M‡

^Substitute for fibre 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 metres: 1m – 10m, or 15m – 30m in increments of 5m. Contact Customer Service for other available lengths.

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