

## MTP/MPO Trunk Cable

Fiberlink **MTP/MPO Trunk Cable** is designed for 40G QSFP+ SR4, 40G QSFP+ CSR4 and 100G QSFP28 SR4 optics direct connection and high-density data center applications; The MTP/MPO connectors comply with the standard TIA-568C.3-2008 and YD/T1272.5-2009, it was widely used in the pre-terminated system of the IDC and blocks. MTP/MPO trunk cable also named MTP/MPO Harness cable helps to fast installation for Data Center and other Fiber Optic environment. Its efficient plug and play structure which can significantly lower the installation and daily maintenance costs surpasses MDA, HDA and EDA regional module cassette or fan-out fiber connections. MPO Trunk cable and provides lower insertion loss and higher return loss so that it fully complied to the high speed network system.



MTP/MPO Trunk Cable

### Features

- Ready equipped MPO connectors and technical tensile and resilient design for 400N and 100N/CM
- Special test for all the ports of the trunk cable makes higher reliability
- Low loss MPO connectors on both two sides
- Easily updated to the next generation for 40G and 100G
- 12 to 144 cores, OM3, OM4 and OS2 fiber optic cable, length in meters.
- Outside coatings can be OFNR, OFNP and LSZH, etc.
- OFNR can pass through UL-1666 flaming test.
- OFNR can get through UL-910 flaming test, LSZH meets IEC60332-1 and IEC60332-3 standard
- Pre-terminated module or MPO adapters connected

### Applications

- Data communication applications
- Data Centre infrastructure
- Storage Area Network-Fiber Channel
- Emerging 40 and 100Gbps Protocols compatible

### MTP/MPO Side Technical Specifications

Specification	SM STANDARD		MM STANDARD	
	Typical	Max	Typical	Max
Insertion Loss (IL)	0.20 dB	0.70 dB	0.15 dB	0.50 dB
Return Loss (RL)	60dB (8° Polish)		25dB (PC Polish)	
Durability	< 0.3 dB after 500 mating cycles		< 0.2 dB after 500 mating cycles	
Ferrule Type Available	4, 8, 12, 24		4, 8, 12, 24	
Operating Temperature	-40°C~+75°C			
Storage Temperature	-40°C~+80°C			

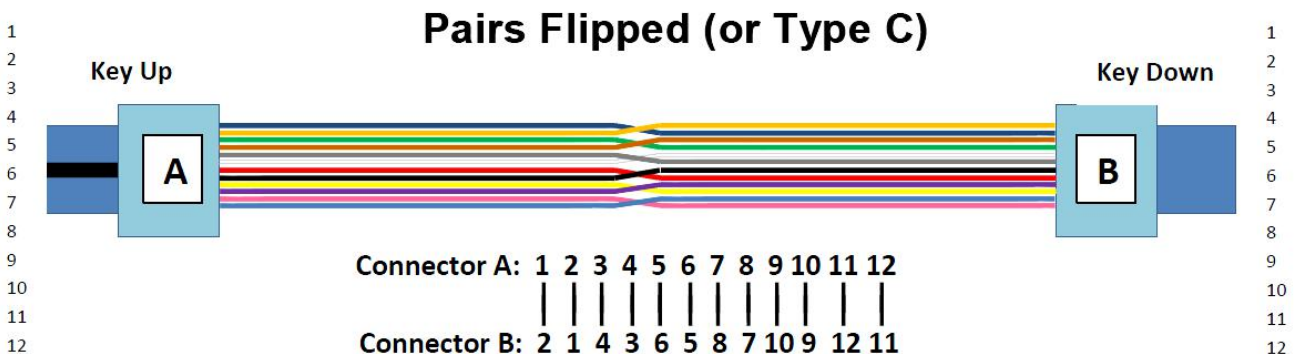
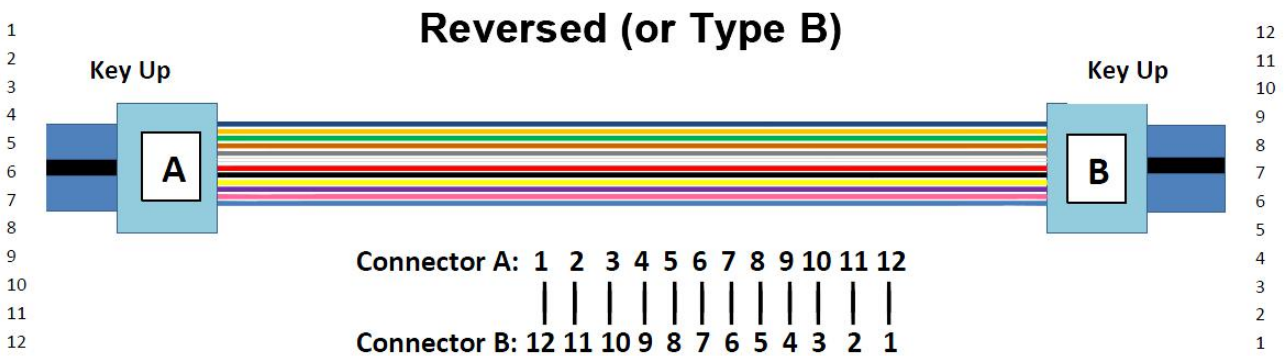
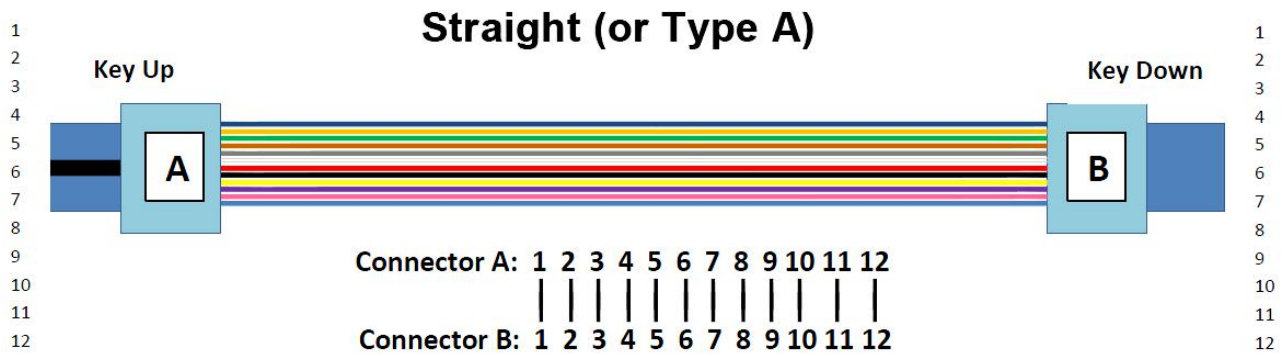
## TRANSMISSION PERFORMANCE

Part number	OM3 50/125um	OM4 50/125um	OS2 9/125um
MAX Attenuation (dB/KM)	2.5 / 0.7	2.5 / 0.7	0.36/ 0.22
MIN EMB bandwidth (MHz.KM)	2000/-	4700/-	/
Attenuation variation, 7.5mm radius,250um coated fiber,850nm	< 0.2dB	< 0.2dB	/
Attenuation variation, 7.5mm radius,250umcoated fiber,1550nm	/	/	< 0.2dB

## MTP/MPO Trunk Cable Specifications

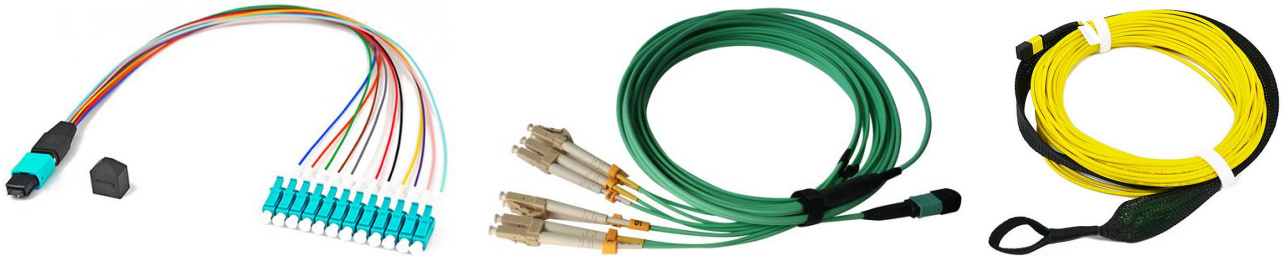
Cores	OD(mm)	MIN bending radius(dynamic)mm	MIN bending radius(static)mm	MAX install tension	Short term resilience
12	4.5	45	22	450	100
24	8	80	40	600	100
48	/	80	40	600	100
72	/	100	50	600	100
96	/	100	50	600	100
114	/	100	50	600	100

## Pre-terminated MTP/MPO Standard Polarity Methods



## MTP/MPO Fan-out Cable Assembly

Fiberlink **MTP/MPO Fan-out Cable Assemblies** are designed for high density applications with require high performance and speedy installation. MTP/MPO fan-out assemblies are numbered for full traceability. Available in 12 core configuration, these space saving assemblies comes with either MTP Male or MTP Female Connectors on one end and LC, SC, FC, or MT-RJ Connectors on the other end. They are available in 4, 6, 8, or 12 fiber ribbon configurations.



MTP/MPO Fan-out Cable Assembly

### Features

- Transition from Trunk Backbone to Fiber Rack
- 12 Cores Configuration (Custom Order Option)
- MPO fan-outs numbered for traceability
- Test Report with each assembly
- Cable terminated in high density MTP/MPO connectors
- Available in 12 fiber and 24 fiber configurations

### Applications

- Data communication applications
- Data Centre infrastructure
- Storage Area Network-Fiber Channel
- Emerging 40 and 100Gbps Protocols compatible

### MTP/MPO Side Technical Specifications

Specification	SM STANDARD		MM STANDARD	
	Typical	Max	Typical	Max
MPO				
Insertion Loss (IL)	0.20 dB	0.70 dB	0.15 dB	0.50 dB
Return Loss (RL)	60dB (8° Polish)		25dB (PC Polish)	
Durability	< 0.3 dB after 500 mating cycles		< 0.2 dB after 500 mating cycles	
Ferrule Type Available	4, 8, 12, 24		4, 8, 12, 24	
Operating Temperature	-40°C~+75°C			
Storage Temperature	-40°C~+80°C			

### Fan-out Side Technical Specifications

Specification	Single Mode PC	Single Mode APC	Multi-mode
Insertion Loss (IL)	< 0.3 dB	< 0.3 dB	< 0.3 dB
Return Loss (RL)	> 50 dB	> 60 dB	N/A
Operating Temperature	-40°C~+75°C		
Storage Temperature	-40°C~+80°C		

## 1U High-density MPO Rack Mount Fiber Patch Panel

Fiberlink **MTP/MPO-LC 1U Rack mount Patch Panel** mounts up to 4xMTP/MPO-LC cassettes in a 19" arrangement taking only 1U height. The Rack mount patch panel provide easy access, connection and securing of the MTP Trunk Cables to the rear of the cassettes. Blank panels are included for the unused apertures within the patch panel. The 19" mounting brackets are adjustable to allow the panel to be set further back in the cabinet mounting frames.

### Features

- Easy for installation and operation
- 19" standard structure
- Available for the installation of FC/SC/ST/LC adapters
- FTTX FTTH solutions

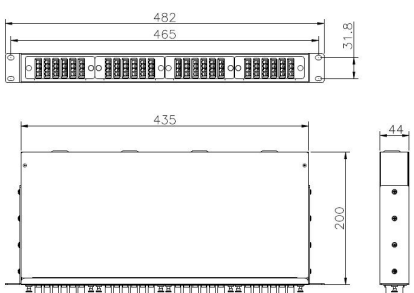
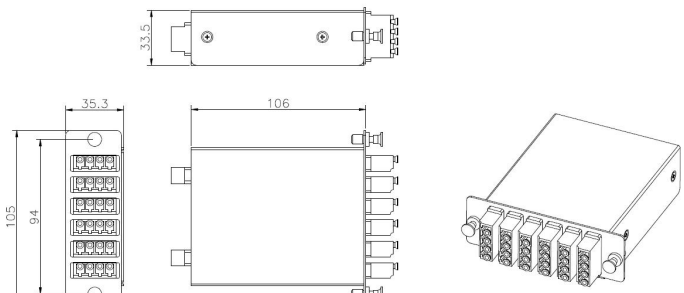
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### 1RU Rack mount Panel for 96 fibers MPO-LC (P/N: FLK-MTPP-1RU-A96 )

<b>Part No.</b>	<b>FLK-MTPP-1RU-A96</b>
Dimension	482x343x44mm (Plastic body)
Sub-Cassette	4x12 fibers MTP/MPO-LC Cassettes or 4x24 fibers MTP/MPO-LC Cassettes
Capacity	48 FO or 96 FO
Color of Panel	Black
Connector type	Supports SC, ST, FC, LC, E2000 MPO pass through or MPO Cassette Holder
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>1RU Rack Mount Panel (A96 Type)</b></p>  </div> <div style="text-align: center;"> <p><b>MPO-24xLC Cassette</b></p>  </div> </div>	

### 1RU Rack mount Panel for 96 fibers MPO-LC (P/N: FLK-MTPP-1RU-B96 )

<b>Part No.</b>	<b>FLK-MTPP-1RU-B96</b>
Dimension	482x200x44mm (Depth 220mm, 240mm, 250mm optional)
Sub-Cassette	4x12 fibers MTP/MPO-LC Cassettes or 4x24 fibers MTP/MPO-LC Cassettes
Capacity	48 FO or 96 FO
Color of Panel	Black
Connector type	Supports SC, ST, FC, LC, E2000 MPO pass through or MPO Cassette Holder
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>1RU Rack Mount Panel (B96 Type)</b></p>  </div> <div style="text-align: center;"> <p><b>MPO-24xLC Cassette</b></p>  </div> </div>	

**1RU Rack mount Panel for 96 fibers MPO-LC (P/N: FLK-MTPP-1RU-C96 )**

<b>Part No.</b>	<b>FLK-MTPP-1RU-C96</b>
Dimension	482x300x44mm
Sub-Cassette	4x12 fibers MTP/MPO-LC Cassettes or 4x24 fibers MTP/MPO-LC Cassettes
Capacity	48 FO or 96 FO
Color of Panel	Black
Connector type	Supports SC, ST, FC, LC, E2000 MPO pass through or MPO Cassette Holder

1RU Rack Mount Panel (C Type)	MPO-24xLC Cassette
	