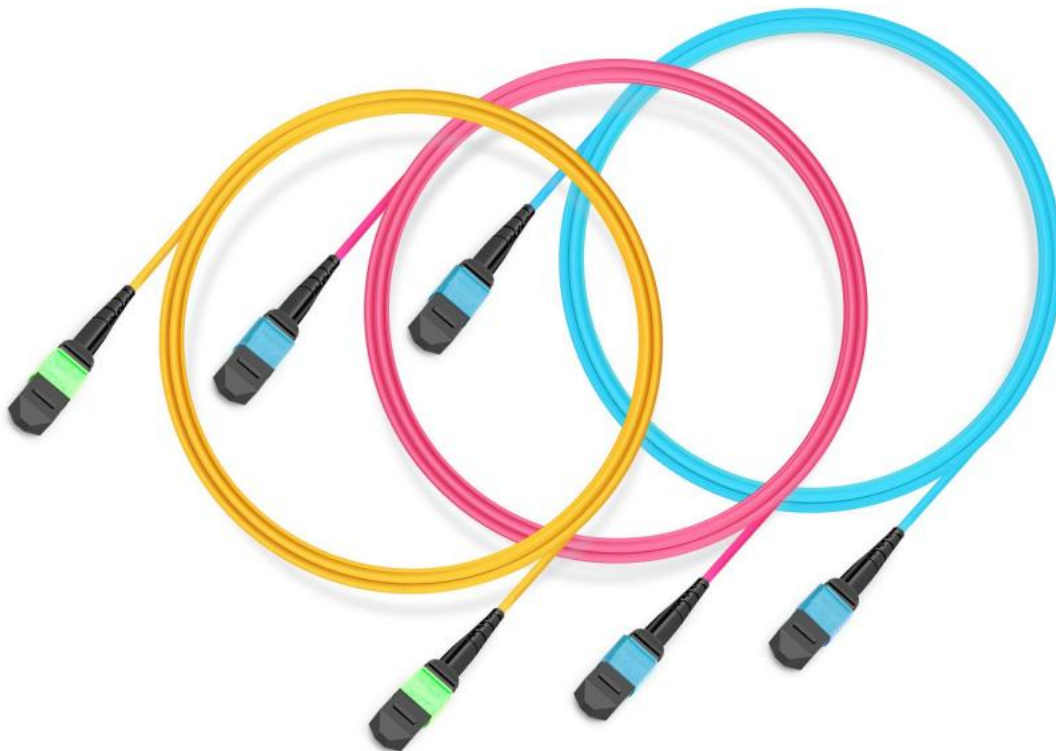


## MTP/MPO -16 Fibers Cable Datasheet



### **MTP/MPO-16 Fibers Cable Introduction**

The MTP®-16 trunk cable is designed for 800G QSFP-DD/OSFP DR8 and 800G OSFP XDR8 optics direct connection and supporting 800G transmission for Hyperscale Data Center. And OM4 MTP®-16 cable is designed for 400G QSFP-DD SR8 optics direct connection and supporting 400G transmission for Hyperscale Data Center. With US Conec MTP® connectors and Corning SMF-28® ultra fiber/Clearcurve fiber, it is optimized for highdensity fiber patching in data centers which need space saving and reduce cable management troubles.

## Features

- US Conec MTP® connector
- 0.75dB Standard IL Singlemode
- 0.35dB ultra low IL Multimode
- Corning SMF-28® Singlemode fiber
- Corning Clearcurve® multimode fiber
- A unique offset keying feature is designed into the connector
- Factory terminated and tested
- OFNR/LSZH (low smoke zero halogen) jacket
- Supports InfiniBand, Ethernet

## Standards Compliance

- RoHS, CE (EN 50575 CPR) and ISO9001 Compliant
- Qualified to TIA-568.3-D
- Standards Compliance TIA 604-18
- Standards Compliance IEC 61754-7-3; 61754-7-4

## Technical Specification

Construction	16F MTP/MTP® Trunk Cable	16F MPO/MTP®-LC Harness Cable	16F MPO/MTP®-8F MPO/MTP® Harness Cable	32F MPO/MTP® Trunk Cable
Fiber count	16 Fibers (MPO/MTP®-16)	16 Fibers (MPO/MTP®-16)	16 Fibers (MPO/MTP®-16)	32 Fibers (MPO/MTP®-16)
Fiber Mode	OS2 9/125 μ m/OM4 50/125 μ m			OM4 50/125 μ m
Glass Fiber	Corning SMF-28® Single Mode Fiber/ Corning ClearCurve® Multimode Fiber			
Connector A	MPO/MTP® Female	MPO/MTP® Female	MPO/MTP® Female	MPO/MTP® Female
Connector B	MPO/MTP® Female	LC Duplex	MPO/MTP® Female	MPO/MTP® Female
Polish Type	APC to APC	APC to UPC	APC to UPC	APC to APC
Cable Jacket	Plenum (OFNP)			
Trunk Diameter	3.0mm	3.0mm	3.0mm	3.5mm
Fan-Out Diameter	-	2.0mm	3.0mm	-
Minimum Bend Radius	Single Mode / Multimode: 30mm			
Operating Temperature	0°C to +70°C			
Storage Temperature	-40°C to +85°C			

Color Codes	MTP	LC
Cable Jackets	OS2: Yellow OM4: Magenta	OM4: Magenta
Connectors	OS2: Green OM4: Green/Blue	OM4: Magenta/Beige
Boots	OS2: Black/Beige/Red OM4: Black	OM4: Beige

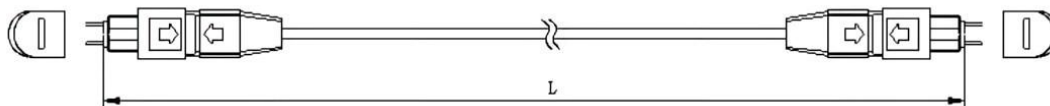
## Technical Specification

Optical Properties	Description
Wavelength (nm)	OS2: 1310/1550nm OM4: 850/1300nm
Attenuation (dB/km)	OS2: ≤0.32 at1310nm, ≤0.18 at1550nm OM4: ≤2.3 at850nm, ≤0.6 at1300nm
Insertion Loss (dB)	OS2: MPO/MTP®: ≤0.75 (0.35 Typ.); LC: ≤0.2 OM4: MPO/ MTP®: ≤0.35 (0.15 Typ.); LC: ≤0.2

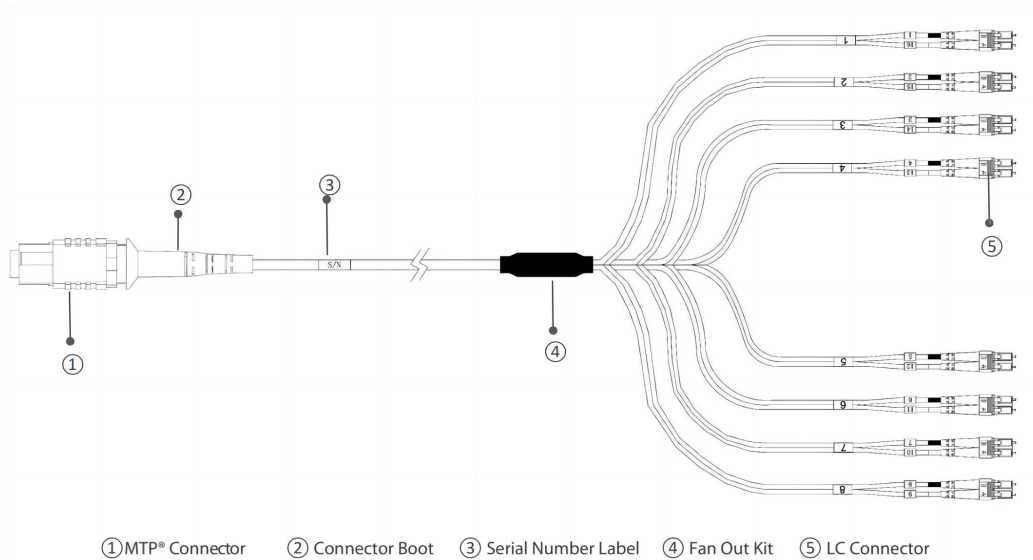
Return Loss (dB)	OS2: MPO/MTP®: $\geq 60$ ; LC: $\geq 50$ OM4: MPO/MTP® APC: $\geq 30$ ; MPO/MTP® UPC: $\geq 20$ ; LC: $\geq 30$
Transmission Distance	OS2: 100m at 800G OM4: 100m at 400G

## Technical Drawing

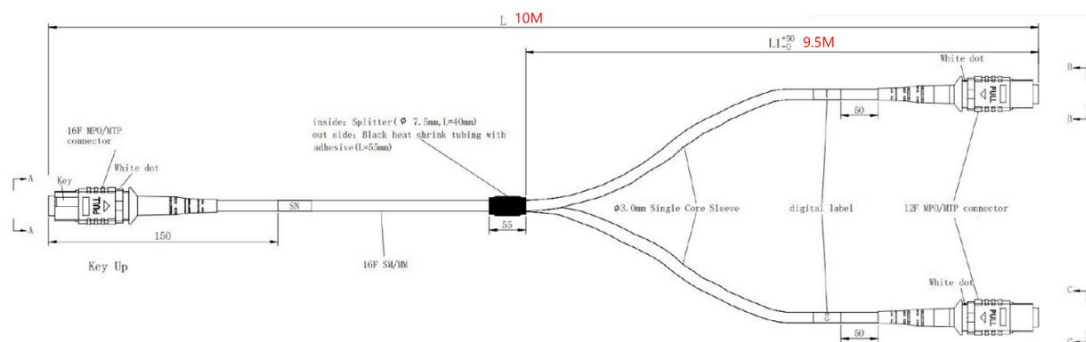
MTP/MPO Trunk Cable



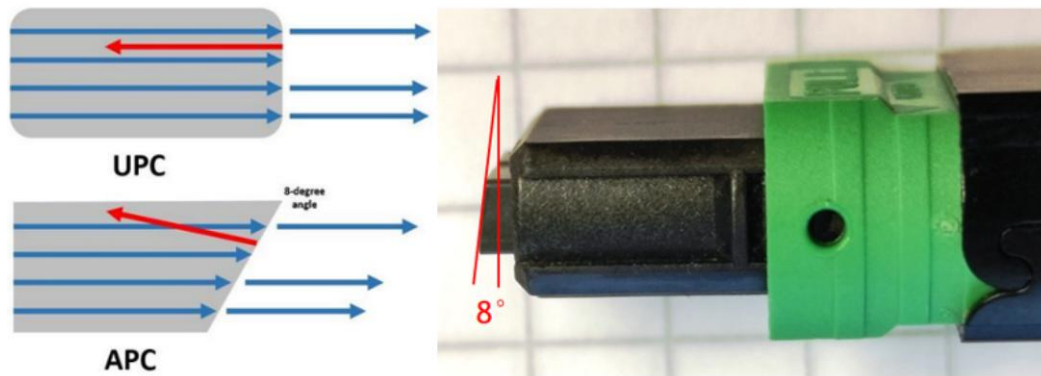
16 MTP/MPO-LC Breakout Cable



16 MTP/MPO-2x8 MTP/MPO Breakout Cable



Detail of the MPO/APC Connector



## Ordering Information

Product number	Description
S2MTPA16F	MTP®-16 APC (Female) to MTP®-16 APC (Female) Yellow OS2 16 Fibers LSZH Single Mode Standard IL Trunk Cable for 800G Network Connection 3mm
S2MPOA16FS	MPO-16 APC (Female) to MPO-16 APC (Female) Yellow OS2 16 Fibers LSZH Single Mode Standard IL Trunk Cable for 800G Network Connection 3mm
M4MTPA16F	MTP®-16 APC (Female) to MTP®-16 APC (Female) Magenta OM4 16 Fibers LSZH Multimode Elite Trunk Cable (Color-coded) for 400G Network Connection 3mm
M4MPOA16F	MPO-16 APC (Female) to MPO-16 APC (Female) Magenta OM4 16 Fibers LSZH Multimode Elite Trunk Cable (Color-coded) for 400G Network Connection 3mm
S2MTPALCU16F	MTP®-16 APC Female to 8 LC UPC Duplex 16 Fibers LSZH Yellow OS2 Single Mode Standard IL Breakout Cable, for 800G Network Connection 3mm
S2MPOALCU16F	MPO-16 APC Female to 8 LC UPC Duplex 16 Fibers LSZH Yellow OS2 Single Mode Standard IL Breakout Cable, for 800G Network Connection 3mm
M4MTPALCU16F	MTP®-16 APC Female to 8 LC UPC Duplex 16 Fibers LSZH Magenta OM4 Multimode Elite Breakout Cable (Color-coded) 3mm
M4MPOALCU16F	MPO-16 APC Female to 8 LC UPC Duplex 16 Fibers LSZH Magenta OM4 Multimode Elite Breakout Cable (Color-coded) 3mm
M4MTPA2x8F	MTP®-16 APC Female to 2 MTP®-8 UPC Female LSZH Magenta OM4 Multimode Elite Breakout Cable 3mm
M4MPOA2x8F	MPO-16 APC Female to 2 MPO-8 UPC Female LSZH Magenta OM4 Multimode Elite Breakout Cable 3mm

## **Packaging, Shipping and Storage**

### **Packing and shipping**

1. The product should be well packaged, the plugs and adapters/sockets of each pair of connectors should be covered with protective caps, coiled, and the coil diameter should not be less than 25 times the diameter of the tail fiber optic cable.
2. When the product needs to be transported over a long distance, it needs to be packed in a wooden box or a cardboard box, and it should be marked on the box that it cannot be thrown, touched, and pressed vigorously, and there should be a rain-proof sign to avoid damage to the product.
3. When the goods arrive, they must be consistent with the factory, and there must be no parts falling off.

### **Storage**

The product cannot be placed in the open air or in a severely corrosive environment for a long time, and should be stored in an environment that meets the working temperature range.

## Further Information:

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Web [www.naddod.com](http://www.naddod.com)

Email For order requirements: [sales@naddod.com](mailto:sales@naddod.com)

For cooperation: [agency@naddod.com](mailto:agency@naddod.com)

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For other informations: [info@naddod.com](mailto:info@naddod.com)

For technical support: [tech@naddod.com](mailto:tech@naddod.com)

## Disclaimer

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1. We are committed to continuous product improvement and feature upgrades, and the contents contained in this manual are subject to change without notice.
2. Nothing herein should be construed as constituting an additional warranty.
3. NADDOD assumes no responsibility for the use or reliability of equipment or software not provided by NADDOD.

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