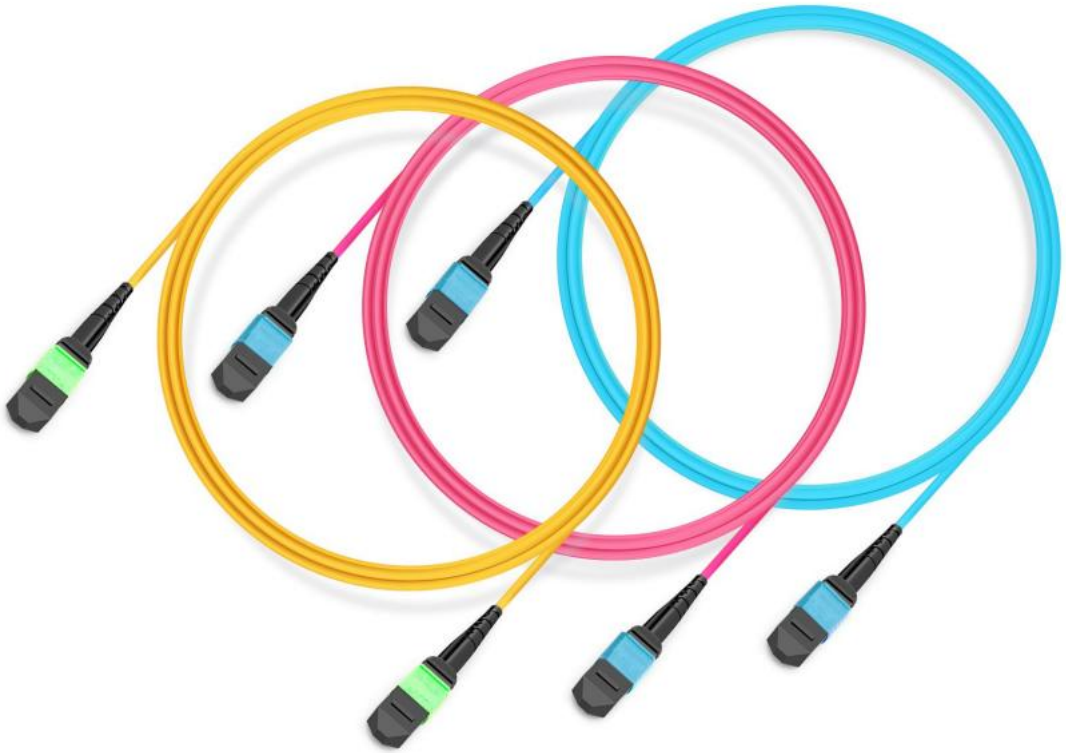
MTP/MPO -16 Fibers Cable Datasheet



MTP/MPO-16 Fibers Cable Introduction

The MTP/MPO 16-core fiber patch cord series is designed to meet the high-speed interconnection requirements of the new generation of high-speed data centers and cloud computing platforms, and is widely used in 400G/800G parallel optical modules, AI cluster networks, high-performance computing (HPC) and switch interconnection scenarios. This series uses high-density MTP/MPO 16-core connectors, supports up to 16 channels of high-speed data transmission, and has the characteristics of simple wiring, convenient installation, and stable performance.

This series of jumpers can provide single-mode OS2 brother-mode OM4 fiber specifications, support high-efficiency A/B/C customization, and have a variety of options such as sheath material LSZH, OFNP, OFNR, etc. It is widely compatible with mainstream optical modules and equipment, and supports the construction of a safe, reliable and scalable next-generation network infrastructure.

Features

- US Conec MTP®/MPO connector
- 0.75dB Standard IL Singlemode
- 0.35dB ultra low IL Multimode
- OS2 Singlemode fiber
- OM3/OM4 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®-8F MPO/MTP® Harness Cable	16F MPO/MTP®-LC Harness Cable
Fiber count	MPO/MTP®-16 to MPO/MTP®-16	MPO/MTP®-16 to 2xMPO/MTP®-8	MPO/MTP®-16 to 8xLC Duplex
Fiber Mode	OS2 9/125 μ m, OM3/OM4 50/125 μ m		
Connector A	MPO/MTP® Female	MPO/MTP® Female	MPO/MTP® Female
Connector B	MPO/MTP® Female	MPO/MTP® Female	LC Duplex
Polish Type	APC to APC/APC to UPC		
Cable Jacket	OFNR/LSZH (low smoke zero halogen)		
Trunk Diameter	3.0mm	3.0mm	3.0mm
Fan-Out Diameter	-	3.0mm	2.0mm
Minimum Bend Radius	Single Mode / Multimode: 10mm / 7.5mm		
Operating Temperature	-10°C to +70°C		
Storage Temperature	-40°C to +85°C		

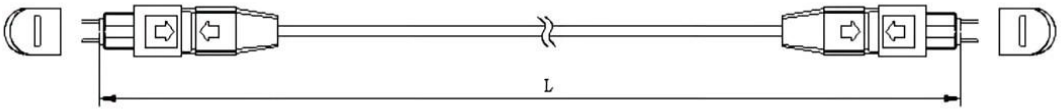
Color Codes	MPO/MTP®	LC
Cable Jackets	OS2: Yellow OM4: Magenta	
Connectors	APC: Green UPC: Aqua	Beige
Boots	OS2: Black/Beige OM4: Black	Beige

Technical Specification

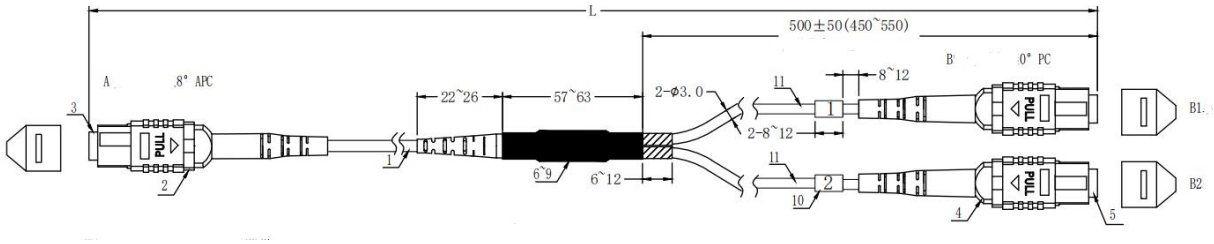
Optical Properties	Description
Wavelength (nm)	OS2: 1310/1550nm OM4: 850/1300nm
Attenuation (dB/km)	OS2: ≤0.32 at1310nm,≤0.18 at1550nm OM4: ≤2.3dB/km at850nm,≤0.6dB/km at1300nm
Insertion Loss (dB)	OS2: MPO/MTP®: ≤0.75dB (0.35 Typ.); LC: ≤0.2dB OM4:MPO/ MTP®: ≤0.35dB (0.15 Typ.); LC: ≤0.2dB
Return Loss (dB)	OS2: MPO/MTP®: ≥60dB; LC: ≥50dB OM4:MPO/MTP®: ≥35dB(APC) 20dB(UPC); LC: ≥30dB

Technical Drawing

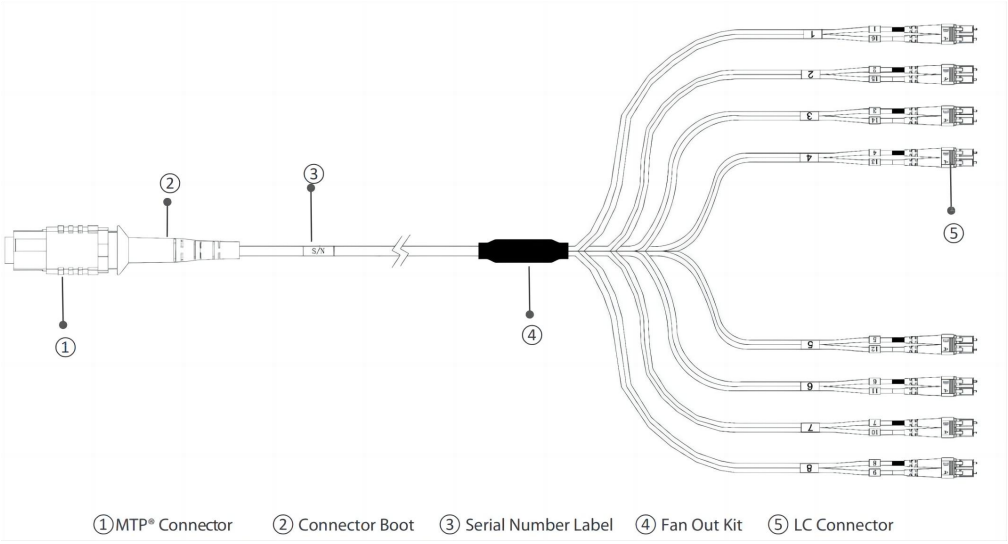
MTP/MPO Trunk Cable



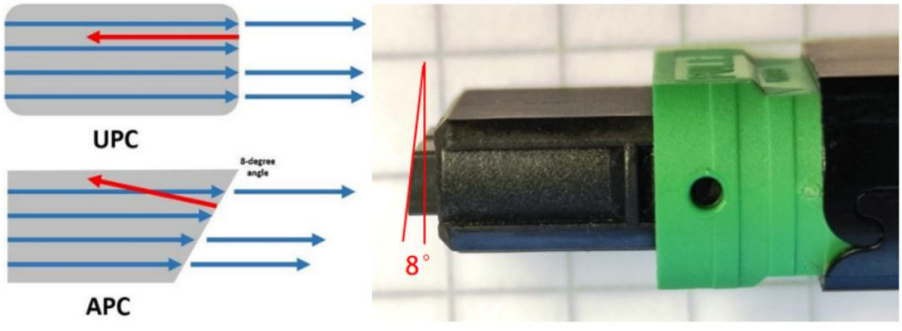
16 MTP/MPO to 2x8 MTP/MPO Breakout Cable



16 MTP/MPO-LC 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
S2MPOA16F	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:

Web www.naddod.com

Email For order requirements: sales@naddod.com

For customer service: support@naddod.com

For technical support: tech@naddod.com

For cooperation: agency@naddod.com

For other informations: info@naddod.com

Disclaimer

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.