ETL Fiber Integrated Solution

MTP/MPO 12-24core Optic cable





Overview

MPO/MTP fiber optic trunk cable viewed from a low-angle perspective. Show two variants: one with a magenta flat cable jacket and one with an aqua-green flat cable jacket. Display the cable neatly coiled with realistic depth and shadowing. Emphasize the MPO/MTP connectors. The OM4 12-Fiber Interconnect Cable is a high-performance factory-terminated trunk assembly designed for high-density data center, enterprise backbone, and storage area network applications. Featuing MPO Female to PanMPO Female connectivity, Polarity B configuration, and optimized low insertion loss performance, this cable provides reliable support for current and next-generation high-speed optical networks.

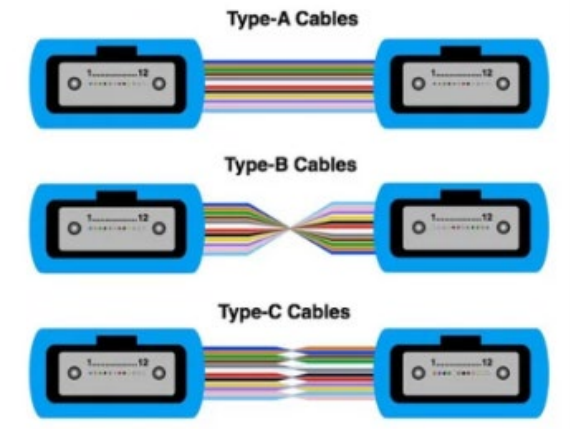
The low-smoke zero-halogen (LSZH) jacket offers improved safety in indoor installations while ensuring compliance with modern data center cabling requirements.

Application

- UP to 24C fiber Cable
- Available in SM, OM1, OM2, OM3 and OM4 fiber grades
- Easily Accessible MPO/MTP Ports for Connection to Trunk Cable
- Factory terminated and tested
- MPO/MTP components feature superior optical and mechanical properties

Specifications

LSZH MPO Female to PanMPO Female | Polarity B | Optimized Insertion Loss



Technical Specifications

Parameter	Specification
Product Type	Fiber Optic Interconnect Cable
Fiber Category	OM4 Multimode
Core/Cladding Diameter	50/125µm
Fiber Count	12 Fibers
Connector A	MPO Female
Connector B	PanMPO Female
Polarity	Type B
Ferrule Type	MT Ferrule
Jacket Material	LSZH
Jacket Color	Aqua/ Magenta
Operating Wavelength	850nm / 1300nm
Typical Insertion Loss	≤ 0.15 dB
Maximum Insertion Loss	≤ 0.35 dB
Return Loss	≥ 20 dB
Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C
Installation Tensile Load	100 N Max
Compliance	RoHS
Standards	IEC, TIA/EIA, ISO/IEC

Optical Performance

Parameter	Value
Fiber Type	OM4 Multimode
Attenuation @ 850nm	≤ 3.0 dB/km
Attenuation @ 1300nm	≤ 1.0 dB/km
Effective Modal Bandwidth @ 850nm	≥ 4700 MHz·km
Maximum Connector IL	≤ 0.35 dB
Typical Connector IL	≤ 0.15 dB
Return Loss	≥ 20 dB

Applications

- Data Centers
- Cloud Computing Infrastructure
- Enterprise Backbone Networks
- High-Speed Ethernet
- Storage Area Networks (SAN)
- Spine-Leaf Architectures
- Optical Distribution Frames (ODF)
- Parallel Optics Applications
- High-Density Patch Panels

Ordering Information

Part Number	Description
ETL MPO-MPO-OM4-8F-B-XXM	OM4 8F LSZH MPO Female to MPO Female, Polarity B, Optimized IL, XX Meter Length
ETL MPO-MPO-OM4-12F-B-XXM	OM4 12F LSZH MPO Female to MPO Female, Polarity B, Optimized IL, XX Meter Length
ETL MPO-MPO-OM4-16F-B-XXM	OM4 16F LSZH MPO Female to MPO Female, Polarity B, Optimized IL, XX Meter Length
ETL MPO-MPO-OM4-24F-B-XXM	OM4 24F LSZH MPO Female to MPO Female, Polarity B, Optimized IL, XX Meter Length

Replace "XXM" with required cable length.

Physical Configuration

End A	Fiber Type	End B	Polarity
MPO Female	OM4 50/125µm	PanMPO Female	Type B

Brand ETL Color Magenta Length (m) 2 Category OM4 12 fiber Ver.A Connector type 1 MTP/MPO F Connector type 2 MTP/MPO F Number of fibers 12 Core Diameter (um) 50/125 Multimode