

MTP®/MPO Trunk Cable



Description

MTP®/MPO trunk cables are high-density backbone assemblies terminated with a single MTP®/MPO connector at each end, providing high-fiber-count connectivity between modules, panels, or distribution areas in structured cabling systems. They enable rapid deployment of pre-terminated fiber infrastructure in data centers and other high-density fiber environments, significantly reducing installation time and simplifying network expansion.

Used with MTP®/MPO modules or adapter panels, trunk cables support flexible plug-and-play architectures for scalable network deployment. They are commonly used to interconnect module cassettes, patch panels, or MTP®/MPO fanouts across MDA, HDA, and EDA zones in data center cabling systems.

Features

- PC, UPC, and APC endface options
- 100% factory terminated and tested for guaranteed performance
- Optional pulling eyes protect connectors during cable installation
- Compatible with MTP®/MPO modules and adapter panels
- Custom fiber counts, cable lengths, and connector configurations available
- RoHS compliant

Applications

- Data Centers
- Storage area network-fiber channel
- Parallel optics
- InfiniBand
- The internal connector application in fiber equipment

Standards compliance

- TIA-568.3-D
- TIA-604-5
- IEC 61754-7
- IEC 61753-1
- Telcordia GR-1435-CORE
- RoHS Compliant

General Specification

Constructions	Descriptions					
Fiber Count	4-384 Fibers					
Fiber Mode	Single-mode: G.652/G.657					
	Multimode: OM1/OM2/OM3/OM4					
Cable Jacket Material	Low Smoke Zero Halogen (LSZH)					
	PVC					
Cable Jacket Ratings	Riser (OFNR)					
	Plenum (OFNP)					
Cable Jacket Color	G.652/G.657: Yellow					
	OM1/OM2: Orange					
	OM3: Aqua					
	OM4: Aqua/Magenta					
	Customized					
Polarity	Type A, Type B, Type C (TIA-568.3-D)					
Connector Ferrule	12F/16F/24F/32F/48F					
Connector Type	Male/Female					
Connector Brand	US Conec MTP®, Senko MPO, Nissin MPO, Sanwa MPO, FURUKAWA MPO, TASLO MPO					
Connector Color	Ferrule	SM (APC)	SM (PC)	OM3	OM4	or customized
	Low Loss	Yellow	Yellow	Aqua	Magenta	
	Standard	Green	Blue	Aqua	Magenta	
Connector Boot Color	Green/Black/Red/Gray or Customized					
Pulling Eye	Customized					
Operating Temperature	-10 °C to +60 °C					
Storage Temperature	-40 °C to +85 °C					

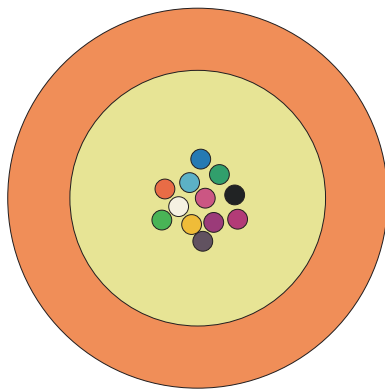
Notes:

SM Low Loss option is not available for 32F and 48F MTP/MPO connectors.

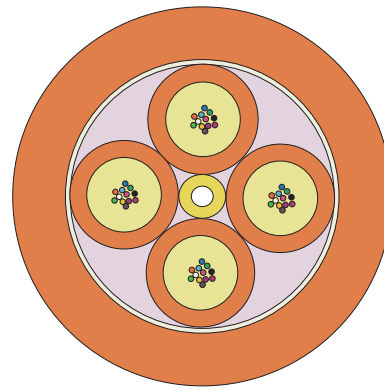
Technical Specification

Optical Properties	Single-mode	Multimode
Insertion Loss (dB)	Low Loss ≤ 0.35 (Typical: ≤ 0.25)	Low Loss ≤ 0.35 (Typical: ≤ 0.2)
	Standard Loss ≤ 0.75 (Typical: ≤ 0.4)	Standard Loss ≤ 0.6 (Typical: ≤ 0.35)
Return Loss (dB)	PC ≥ 50 ; APC ≥ 60	PC ≥ 20 ; APC ≥ 40
Durability	≤ 0.3 dB typical change, 50 matings	
Wavelength (nm)	Single-mode: 1310/1550, Multimode: 850/1300	

Typical Cable Structures



12F Structure



(12 x N) F Structure

Trunk Cables of Different Structures



Trunk Cable - Bundle



Trunk Cable

Pulling Elements



Spool Packaging

