



MPO Connectors



Overview

The MPO (Multi-fiber Push On) connector is a type of high-density fiber optic connector used in optical fiber communication systems. It supports up to 12 fibers in a compact form factor and provides improved performance and reliability compared to traditional single-fiber connectors. The MPO connector uses a push-on/pull-off mechanism for easy installation and maintenance.

The MPO connector is designed for high-density transmission and space-saving applications. Each individual connector contains 8, 12 or 24 strands of fiber through an MT ferrule, which provides quick and reliable interconnections with a guide pin. The MPO optical connector with guide pin is called a "male type", and a "female type" is without guide pin. The two mate together in the adapter.

Advantages

- **Multi-Fiber Design:** ranging from 8 to 144 fibers or more, this high-density design allows for efficient use of space and increased data transmission capacity.
- **Push-On Mechanism:** enabling quick and easy installation without the need for special tools.
- **Precision Alignment:** the MT ferrule is mated through the precision male pin, to ensure accurate alignment of optical fibers. This precision minimizes insertion loss and maximizes the performance of fiber optic connections.
- **Modularity and Scalability:** allows users to easily expand or reconfigure fiber optic systems, as needed.
- **High-Speed Data Transmission:** MPO connectors are capable of supporting high-speed data transmission, making them suitable for applications requiring fast and reliable connectivity, such as data centers and high-performance computing environments.



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Features

- High performance IL & RL
- Housing can be removed for re-polishing
- Can be un-plugged from adapter with push-pull tab
- Available with 45-degree, 90-degree and flexible boot
- IEC 61754-7 and TIA/EIA 604-5 Compliant for MPO/MTP interfaces

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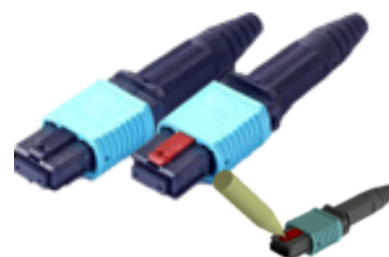
Connector Options



**MPO
Flex Boot**



**MPO
Pull Tab**



**MPO MTX
Polarity Switch**

Typical Performance Specifications

Parameter	Specifications
Item	Connectors (8F, 12F, 16F, 24F)
Mode	Single Mode, Multi Mode
Durability	<.2 dB (500 matings)
Fiber Diameter	9/125 um SM, 50/125 & 62.5/125 um MM
Insertion Loss (Standard)	<0.6 dB SM, <0.35 dB MM
Low Insertion Loss	<0.35 dB SM, <0.35 dB MM
Return Loss	APC >55 dB SM, > 20 dB MM
Operating Temp (C)	-40 C to +80 C
Storage Temp (C)	-40 C to +80 C



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