MPO Connector

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Variants

12PIN

Details

The **MPO (Multi-Fiber Push-On) Connector** is a high-density optical connector designed for modern data centers, telecom networks, cloud infrastructure, and high-performance computing environments. Supporting up to **48 fibers in a single connector**, MPO technology significantly reduces cable space while increasing network capacity and deployment efficiency.

The **12-Fiber MPO Connector** is one of the most widely used solutions for **40G, 100G, 200G, and 400G Ethernet** applications, providing fast deployment, simplified cable management, and superior optical performance.

Fiber Count	**12 Core**
Connector Type	**MPO**

Supported Speed

400G+

Durability

500+ Cycles

Key Features

? High-density multi-fiber optical connectivity

? Supports 8, 12, 24, 32 and 48 fiber configurations

? Compatible with OS2, OM3, OM4 and OM5 fiber

? Push-pull design for quick installation

? Low insertion loss and excellent optical performance

? Supports 40G, 100G, 200G and 400G networks

? Ideal for data centers and high-speed backbone networks

? Available in Male and Female versions

Technical Specifications

Category	Specification
Product Type	Multi-Fiber Optical Connector (MPO)

Category	Specification
Full Form	Multi-Fiber Push-On
Fiber Count	8 / 12 / 24 / 32 / 48 Fibers
Connector Type	MPO Male (With Pins) / MPO Female (Without Pins)
Fiber Type	OS2 Single Mode / OM3 / OM4 / OM5 Multimode
Interface Type	Push-Pull High Density Interface
Ferrule Type	MT Multi-Fiber Ferrule
Alignment Method	Guide Pins (Male) / Guide Holes (Female)
Insertion Loss	? 0.35 dB (Typical Low Loss)
Return Loss	? 20 dB (MM) / ? 60 dB (SM APC)
Polarity	Type A / Type B / Type C
Connector Color	Aqua, Green, Beige and Other Standard Colors
Supported Speed	40G / 100G / 200G / 400G+
Cable Type	MPO Trunk, MPO Breakout, MPO Harness Cable
Standard Compliance	IEC 61754-7, TIA/EIA-604-5 (FOCIS 5)
Operating Temperature	-40°C to +75°C
Durability	? 500 Mating Cycles

Supported Applications

Data Centers 40G Ethernet 100G Ethernet 200G Ethernet 400G Ethernet Telecom Networks Cloud Infrastructure High Performance Computing (HPC)

Available Options:

MPO 8 Core • MPO 12 Core • MPO 24 Core • MPO 32 Core • MPO 48 Core • Male & Female Connectors • OS2 Single Mode • OM3 / OM4 / OM5 Multimode

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