

MPO Connector

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Variants

12PIN

Details

MPO Connector

Category	Sp
Product Type	Multi-Fiber Optical Connector (MPO)
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	Single Mode (OS2) / Multimode (OM3 / OM4 / OM5)
Interface Type	Push-Pull (High Density)
Ferrule Type	MT Ferrule (Multi-fiber)

Category	Sp
Alignment Method	Guide Pins (Male) / Guide Holes (Female)
Insertion Loss	Typically ? 0.35 dB (Low Loss)
Return Loss	? 20 dB (MM) / ? 60 dB (SM APC)
Polarity Types	Type A / Type B / Type C
Connector Color	Aqua (MM), Green (APC), Beige (OM1/OM2), Others
Application	Data Center, High-Speed Ethernet, Telecom, HPC
Supported Speeds	40G / 100G / 200G / 400G+
Cable Type	MPO Trunk / MPO Breakout / Harness Cable
Standard Compliance	IEC 61754-7, TIA/EIA-604-5 (FOCIS 5)
Temperature Range	-40°C to +75°C
Durability	? 500 mating cycles