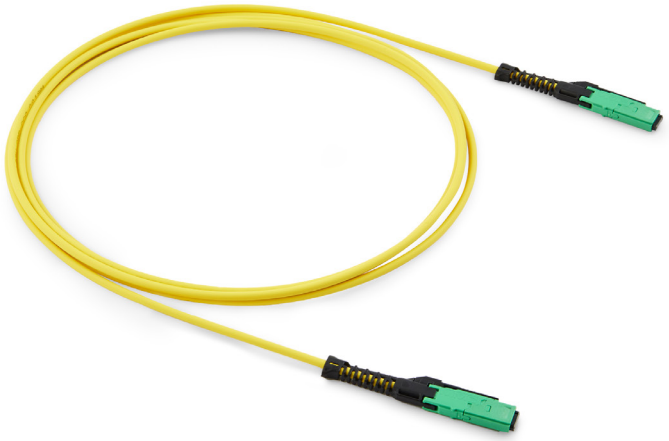
MMC Patch Cords



Description

MMC patch cords are high-density optical connectivity solutions designed to support increased fiber counts in next-generation data center and high-performance computing environments.

With a compact interface, they enable up to 3× higher port density compared to MPO/MTP® connectors, supporting efficient space utilization and high-bandwidth optical interconnects.

Features

- Compact MMC interface enabling up to 3× higher port density compared to MPO/MTP®
- Low insertion loss for high-performance optical transmission
- Compatible with 165 μm, 200 μm, and 250 μm fiber types
- Push-pull boot design for easy insertion and removal
- Supports APC for single-mode applications
- Supports cable outer diameters up to 2.5 mm
- 100% factory terminated and teste

Applications

- Data centers and high-density optical interconnect systems
- Co-packaged optics (CPO) and on-board optics
- High-bandwidth transceiver connectivity
- Pre-terminated high-density cabling infrastructure
- Structured cabling systems
- Interconnects within optical equipment and modules

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Standard Compliance

- RoHS Compliant
- InfiniBand Compliant

General Specification

Constructions	Descriptions
Fiber Count	4-384 Fibers
Fiber Mode	Single-mode: G.652/G.657
	Multimode: OM3/OM4
Cable Jacket Material	Low Smoke Zero Halogen (LSZH)
	PVC
Cable Jacket Ratings	Riser (OFNR)
	Plenum (OFNP)
Cable Jacket Color	SM: Yellow
	OM3: Aqua
	OM4: Aqua/Magenta
	or Customized
Connector Ferrule	12F/16F/2x12F
Connector Type	Male/Female
Connector Brand	US CONEC
Connector Color (Boot)	Black
Pulling eye	Customized
Operating Temperature	-10 °C to + 60 °C
Storage Temperature	-40 °C to + 85 °C

Technical Specification

Optical Properties	Single-mode	Multimode
Insertion Loss (dB)	Low Loss ≤ 0.35	Low Loss ≤ 0.35
Return Loss (dB)	APC ≥ 60	APC ≥ 35
Wavelength (nm)	1310/1550	850
Fiber Attenuation (dB/km)	≤ 0.35 at 1310 nm, ≤ 0.2 at 1550 nm	≤ 2.3 at 850 nm, ≤ 0.6 at 1300 nm
Transmission Distance	OM4: 150 m at 40/100G, 550 m at 10G	
	OM3: 100 m at 40/100G, 300 m at 10G	
Durability	≤ 0.3 dB Typical Change, 50 matings	