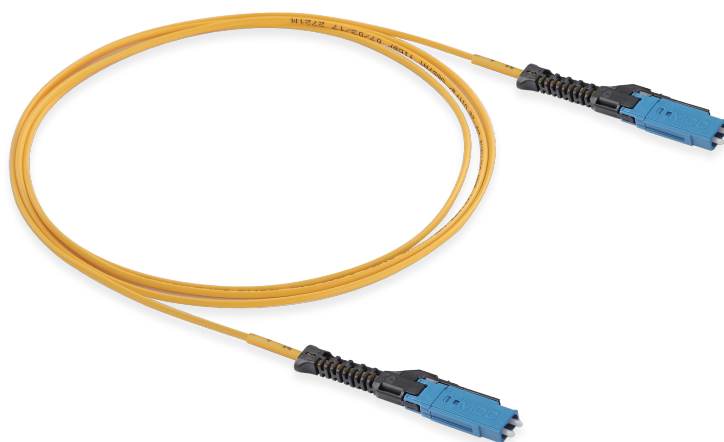


MDC Patch Cords



Description

MDC patch cords are duplex fiber optic patch cords terminated with MDC connectors, designed for high-density connectivity in next-generation data centers.

Their compact interface enables increased port density and efficient front-panel utilization in 400G and higher-speed applications, while supporting simplified polarity management.

Features

- Compact MDC duplex connector enabling up to 3 × higher cabling density compared to LC
- DirectConec™ push-pull boot for easy insertion and removal in high-density environments
- Supports simple polarity reversal without exposing or twisting fibers
- Compliant with IEC 61753-1 Grade B random mating performance
- PC / UPC / APC end face polish options
- 100% factory terminated and tested
- Flexible length and configuration options

Applications

- Data centers and high-speed interconnect systems (200G / 400G / 800G)
- Storage area networks (Fibre Channel)
- Parallel optics and high-density cabling architectures
- Interconnects within optical equipment and modules
- Centralized cross-connect and distribution areas
- Trunk cabling to zone cabinets, switches, and servers

Standards Compliance

- IEC 61754-36
- IEC 61753-1 (Grade B)
- TIA-568.3-D
- Telcordia GR-326-CORE
- RoHS Compliant

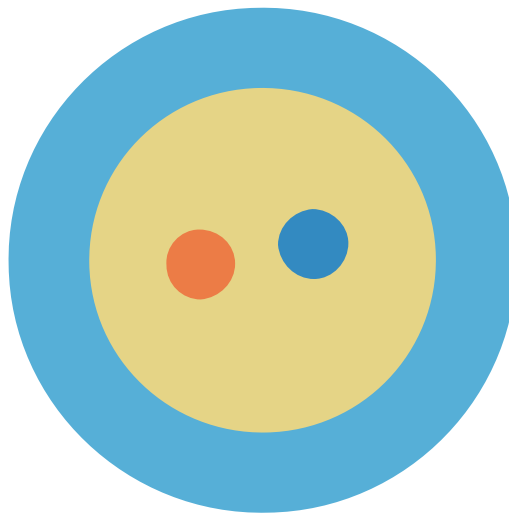
General Specification

Constructions	Descriptions			
Fiber Count	2 Fibers			
Fiber Type	Single-mode: G.652/G.657 (9/125μm)			
	Multimode: OM1/OM2/OM3/OM4			
Fiber Brand	Corning SMF-28® Ultra, Corning Clear Curve® optical fiber			
Cable Jacket Material	Low Smoke Zero Halogen (LSZH)			
	PVC			
Cable Jacket Ratings	Riser (OFNR)			
	Plenum (OFNP)			
Jacket Color	G.652/G.657: Yellow			
	OM3: Aqua			
	OM4: Aqua/Magenta			
	or customized			
Cable Suitability	Up to 2.0mm OD			
Polarity	Type A, Type B (TIA-568.3-D)			
Ferrule Material	Zirconia			
Connector Brand	US CONEC			
Connector Color (Housing)	SM (APC)	SM (UPC)	OM3	OM4
	Green	Blue	Aqua	Aqua/Heather Violet/Lime
Connector Color (Boot)	Black			
Operating Temperature	-10 °C to +60 °C			
Storage Temperature	-40 °C to +85 °C			

Technical Specification

Optical Properties	Single-mode	Multimode
Insertion Loss (dB)	Standard Loss UPC ≤ 0.20 (Typical ≤ 0.12)	Standard Loss UPC ≤ 0.20 (Typical ≤ 0.12)
	Standard Loss APC ≤ 0.30 (Typical ≤ 0.15)	-
Return Loss (dB)	UPC ≥ 50 ; APC ≥ 65	UPC ≥ 25
Wavelength (nm)	1310/1550	850/1300
Durability	≤ 0.20 dB Typical Change, 500 matings	

Cable Structure



2F Structure