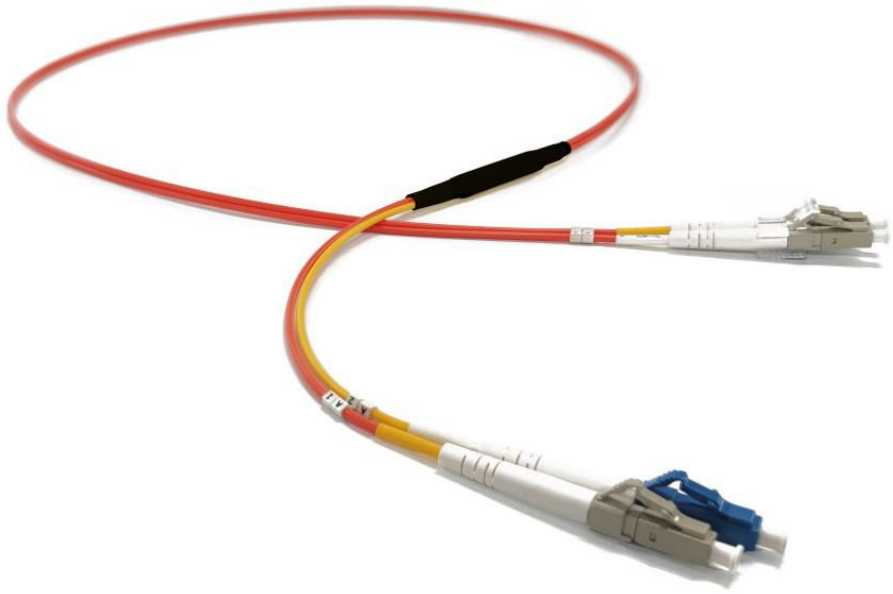
Mode Conditioning Patchcord



Mode conditioning patchcords (MCP) provide an effective launch platform for 1310nm Laser switches being used in multimode cabling systems. Mode conditioned patchcords can allow a much higher operational bandwidth by precisely aligning a single mode termination at the laser transmitter and providing an off-centre launch into the multimode fibre core. This is essential for networks using legacy 62.5/125 and 50/125 multimode optical fibre and may be specified for current multimode networks depending upon the system requirements.

For example, mode conditioning patchcords are required where Gigabit 1000 Base-LX routers and switches are installed into existing multimode cable plants. These specialized cords help avoid Differential Mode Delay (DMD) effects that can occur when long wave transceiver modules operate at both single-mode and multimode wavelengths.

Features

- High precision connector
- UPC APC end face polish
- LC, MU, SC, FC, ST, all single fiber connector
- Increased transmission bandwidth by as much as 4 times
- Reduced modal noise
- Customized length available
- 100% factory terminated and tested
- ROHS Compliant

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Standards Compliance

- TIA/EIA-568.3-D
- EIA/TIA-604 Series
- IEC-61754 Series
- IEC-61753-1
- GR 326 Core

General Specification

Construction	Description
Fiber Count	Simplex or Duplex
Fiber Mode	Single mode: G.652/G.657 Multimode: OM1/OM2/OM3/OM4
Fiber Brand	SMF-28® Ultra optical fiber Corning ClearCurve® multimode fiber
Cable Jacket Material	Low Smoke Zero Halogen (LSZH) PVC
Cable Jacket Ratings	Riser (OFNR) Plenum (OFNP)
Cable Jacket Color	G.652/G.657: Yellow OM1/OM2:Orange OM3: Aqua OM4: Aqua/Magenta or Customized
Polarity	A-A,A-B (TIA 568.3-D)
Connector type	FC SC LC MU ST MTRJ SMA etc.
Endface polish	PC UPC APC
Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C

Technical Specification

Description	62.5mm MMF	50mm MMF
Operating wavelength	1310nm	1310nm
Maximum Insertion Loss	0.5dB	0.5dB
Coupled Power Ratio (CPR)	28 to 40dB	12 to 20dB
Back Reflection S/M Channel	30dB	30dB
Back Reflection M/M Channel	20dB	20dB
Mating Durability	500 mating cycles; ＜ 0.2dB Change	-

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Technical Drawing