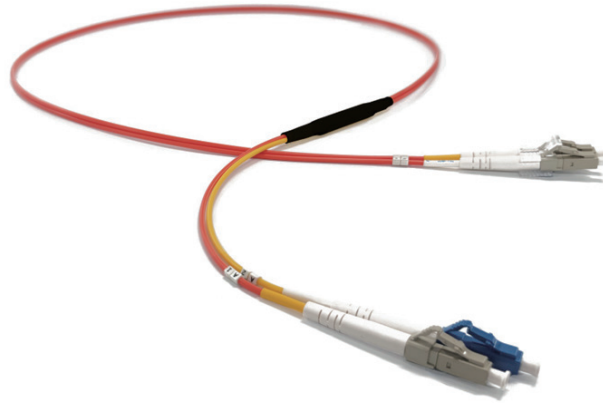


Mode Conditioning Patchcord



Description

Mode Conditioning Patchcords (MCP) are hybrid patch cords designed to support 1310 nm laser transmission over multimode fiber. By offset-launching light from a single-mode fiber into the multimode fiber core, MCPs reduce Differential Mode Delay (DMD) and improve bandwidth performance. They are typically used with legacy 62.5/125 μm or 50/125 μm multimode fiber systems where long-wavelength laser transceivers are deployed.

Features

- Designed for 1310 nm laser transmission over multimode fiber
- Provides controlled offset launch to minimize Differential Mode Delay (DMD)
- Improves transmission performance in legacy 50/125 μm and 62.5/125 μm multimode fiber systems
- Available with LC, SC and other connector interfaces
- Factory terminated and performance tested
- Custom cable lengths available

Standards Compliance

- TIA-568.3-D
- TIA-604 Series
- IEC 61754 Series
- IEC 61753-1
- Telcordia GR-326-CORE
- RoHS Compliant

General Specification

Constructions	Descriptions
Fiber Count	Simplex or Duplex
Fiber Mode	Single-mode: G.652/G.657
	Multimode: OM1/OM2/OM3/OM4
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
	Customized
Polarity	Type A, Type B (TIA-568.3-D)
Connector Type	FC, SC, LC, MU, ST, SMA etc.
Endface Polish	PC/UPC/APC
Operating Temperature	-10 °C to +60 °C
Storage Temperature	-40 °C to +85 °C

Technical Specification

Description	Channel	Wavelength (nm)	Optical Properties
Insertion loss	MM Channel	850/1300	≤0.2 dB
	SM Channel	1310	≤0.5 dB
	Coupled Power Ratio (CPR)	850/1300	12 to 20 dB (50/125, 62.5/125)
Return Loss (dB)	SM/UPC>50, SM/APC>65; MM/PC>30		
Durability	≤0.2 dB Typical Change, 500 matings		

Technical Drawing

