

## Mode Conditioning Patch Cord

Mode conditioning patch cords are specially designed for launching gigabit signal into conventional 62.5µm/125 or 50µm/125 fiber with very high bandwidth. Mode conditioning patch cords are custom made with any combination of ST, SC, LC, or FC connectors at each end. A 9/125-singlemode fiber is offset to a multimode fiber on one leg while the other leg consists of a standard multimode fiber. This can improve transmission bandwidth by 3 to 4 times and also greatly reduces modal noise. Mode conditioning patch cords are compatible with 850nm or 1300nm Gigabit Ethernet on standard multimode fiber, and a VCSEL laser source into standard multimode fiber.

### Features

- Increased transmission bandwidth.
- Reduced modal noise.
- Low insertion loss (<1dB).
- Various connector options.

### Technical specification

Description	62.5µm/125 MMF	50µm/125 MMF
Operating wavelength	1300nm	
Maximum insertion loss	0.5dB	
Coupled power ratio (CPR)	28to40dB	12 to 20dB
Back reflection S/M channel	30dB	
Back reflection M/M channel	20dB	
Connector finish	PC or APC	
Ferrule radius of curvature	10 to 25 mm	
Fiber height	-50 to 50nm	
Maximum angular offset	1 Degree	
Sheath color	Orange (yellow for SMleg)	

### Ordering Information

Part Code	Description
3C-PCD-MOD-WWW-XXX-Y-ZZ	Mode Conditioning Patch Cord

WWW– LCPC/SCPC/FCPC/STPC ( MM cable side)  
 XXX–LCPC/SCPC/FCPC/STPC ( SM cable side)  
 YY–(2-2mm, 3-3mm)  
 ZZ–(02-99 Meters)



