

General Description

The Mode Conditioning Patchcord (MCP), also referred to as a Gigabit Launch Patchcord, is designed for use in longwave / long-haul (LX/LH) Gigabit Interface Converter (GBIC) applications that use single-mode lasers with multimode fiber. The MCP prevents multiple signal generation and Differential Mode Delay (DMD) by offsetting the launch of the single-mode signal into the multimode fiber core. This extends link span and ensures reliable operation of Gigabit Ethernet over existing multimode fiber infrastructure.



Key Features

- Ensures Gigabit transmission over multimode fiber
- Eliminates Differential Mode Delay (DMD)
- Offset launch technique from single-mode to multimode
- Compatible with 62.5/125 μm or 50/125 μm MMF cable plant
- Available with various connector types
- High return loss and low insertion loss
- High durability for repeated matings
- Operates over a wide temperature range

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Technical Specifications

Parameter	Specification
Cable Plant	62.5/125 or 50/125 Multimode Fiber (MMF)
Insertion Loss (MMF–MMF)	≤ 0.30 dB (850 nm, 1300 nm)
Insertion Loss (50/125 MMF–SMF)	≤ 2.1 dB (1310, 1550 nm)
Insertion Loss (62.5/125 MMF–SMF)	≤ 2.6 dB (1310, 1550 nm)
Return Loss (MMF)	≥ 30.0 dB
Return Loss (SM UPC)	≥ 50.0 dB
Return Loss (SM APC)	≥ 65.0 dB
Durability	≤ 0.20 dB typical change after 500 matings
Operating Temperature	-20 °C to +75 °C
Storage Temperature	-40 °C to +85 °C

Applications

- Gigabit Ethernet (1000BASE-LX / LH) over legacy multimode fiber
- GBIC / SFP long-wavelength transceiver deployments on MMF cable plant
- Campus and building backbone links reusing existing multimode infrastructure
- Data centre and enterprise LAN interconnects
- Telecommunications and broadband network construction
- System integration and field restoration of multimode links

Ordering Information

Standard Package Contents

Item	Quantity
Mode Conditioning Patchcord (assembly)	1
Connector Dust Caps (fitted)	As required
Test / QC Report	1

Connector types, fiber size (62.5/125 or 50/125), polish (UPC/APC) and cable length are specified at time of order. Package contents may vary by configuration.

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