

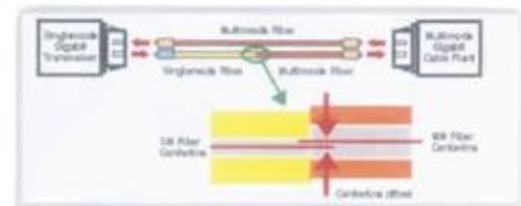


## General Description

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 **singlemode lasers** with **multimode fiber**. MCP prevents **multiple signal generation** and **Differential Mode Delay (DMD)** by offsetting the launch of the singlemode signal into the multimode fiber core. This extends link span and ensures reliable operation of Gigabit Ethernet over multimode fiber infrastructure.

## Features:

- Ensures **Gigabit transmission over multimode fiber**
- Eliminates **Differential Mode Delay (DMD)**
- **Offset launch** technique from singlemode to multimode
- Compatible with **62.5/125  $\mu$ m** or **50/125  $\mu$ m** 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



## Main Characteristics

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

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