

# Fiber Optic Patch Cord

## Multi Mode



**Genius** Multimode (MM) Fiber Patch Cord is built with high-grade OM3/OM4 50/125  $\mu\text{m}$  fiber for reliable high-speed data transmission in short-distance networks. It offers low insertion loss and consistent optical performance for data center and LAN applications. Precision-terminated connectors (LC/SC/ST/FC) ensure secure and stable connectivity. The flexible LSZH jacket provides durability and easy installation. Ideal for switches, patch panels, and optical transceivers.

## Key Features

- Connector ferrule is made of Zirconia
- Standard simplex/duplex LC connectors, customized SC/FC etc
- Factory pre-terminated and 100% performance tested
- Bend Insensitive fiber
- RoHS v3 Compliant
- Genius Network Brand Performance Warranty for 25 years



## Product Specification

Fiber Type	MM OM3 & OM4
Fiber Count	1 & 2
Core Cladding Diameter	50/125 $\mu\text{m}$
Buffer Diameter	0.9 mm
Strength Member	Aramid Yarn
Jacket Material	LSZH
Cable Jacket Color	Aqua
Outer diameter	2 mm x 4 mm
Available Connector Variant	LC/SC/FC/ST
Polishing Type	UPC
Standard Polarity	A-B (Type B)
Connector Ferrule Material	Zirconia Ceramic
Ferrule Concentricity	$< 1 \mu\text{m}$
Connector Housing Color	Aqua / Beige
Connector Boot Color	White / Aqua
Min Bending Radius - Static	10D
Min Bending Radius - Dynamic	20D
Max. Tensile strength – Short Term	200 N
Max. Tensile strength – Long Term	160 N
Compressive strength - short term	150 N / 100 mm
Compressive strength - Long Term	80 N / 100 mm
Standard Length (in Meters)	1 /3/5/10/15/20

## Performance Specification

Operating Wavelength	850 nm / 1300 nm
Max Attenuation of Patch Cord Cable	850 nm : $\leq 3.0 \text{ dB/km}$ , 1300 nm: $\leq 1.0 \text{ dB/km}$
Connector Insertion Loss	$\leq 0.30 \text{ dB}$
Connector Return Loss	$\geq 30 \text{ dB}$
Durability - $\Delta\text{IL}(\text{dB})$	$\leq 0.20 \text{ dB @ 500 Cycle}$

## Environmental Specification

Operation temperature	-40°C to +75°C
Storage temperature	-40°C to +75°C
Installation temperature	-05°C to +50°C

## Standards, Certifications & Compliances

- RoHS v3 Compliant
- Compliance with ANSI/TIA-568-C.3, ANSI/TIA-568.3-D, ANSI/TIA-568.3-E, ISO/IEC 11801 & EN50173, Telcordia GR-326-CORE & IEC 874-1
- Compliance with Flammability Test - IEC 60332-1, IEC 60332-3C
- Compliance with Halogen Free Test - IEC 60754-1
- Compliance with Corrosion Proof - IEC 60754-2
- Compliance with Smoke Density Test - IEC 61034
- Compliance with Minimum concentration of oxygen - ASTM D2863

## Ordering Information

Part Number	Product Description
GFM4PDLCDPCLZ01	Genius Fiber patch cord OM4 LC-LC LSZH PC 1 mtr
GFM4PDLCDPCLZ02	Genius Fiber patch cord OM4 LC-LC LSZH PC 2 mtr
GFM4PDLCDPCLZ03	Genius Fiber patch cord OM4 LC-LC LSZH PC 3 mtr
GFM4PDLSCPCLZ01	Genius Fiber patch cord OM4 LC-SC LSZH PC 1 mtr
GFM4PDLSCPCLZ02	Genius Fiber patch cord OM4 LC-SC LSZH PC 2 mtr
GFM4PDLSCPCLZ03	Genius Fiber patch cord OM4 LC-SC LSZH PC 3 mtr
GFM4PDSCDPCLZ01	Genius Fiber patch cord OM4 SC-SC LSZH PC 1 mtr
GFM4PDSCDPCLZ02	Genius Fiber patch cord OM4 SC-SC LSZH PC 2 mtr
GFM4PDSCDPCLZ03	Genius Fiber patch cord OM4 SC-SC LSZH PC 3 mtr

Note : Last 2 Digit of Part number is Indicate Patch cord length



**Note** – Any specification in the data sheet including Design, Performance, Measurement and standards may change without prior notice by **Net Gen Innovations Private Limited** as part of continuous Improvement – Always download data sheet from [genius-net.com](http://genius-net.com) for latest version