

## Optical Fiber Patch Cord

### TECHNICAL DATA SHEET

# LSZH Fiber Optic Patch Cord MM (OM1) 50/125 (FC-UPC/FC-UPC) Simplex 3.0 mm



## **LSZH Fiber Optic Patch Cord MM (OM1) 50/125 (FC-UPC/FC-UPC) Simplex 3.0 mm**

### **Product Description:**

The Fiber Optic Patch Cord Multimode OM1 (50/125  $\mu\text{m}$ ) FC–FC Simplex is designed for short-distance optical communication in telecom, industrial, and laboratory environments.



It features FC connectors on both ends with a **threaded screw-type coupling**, ensuring high mechanical stability and resistance to vibration. The simplex configuration uses a single fiber core for one-way transmission, making it ideal for testing, monitoring, and dedicated signal paths.

OM1 multimode fiber is optimized for LED-based transmission and short-range applications.

### **Features:**

- FC–FC threaded connectors for high stability
- Simplex design for single-direction transmission
- OM1 multimode fiber for short-distance communication
- Optional LSZH jacket for enhanced fire safety
- High resistance to vibration and mechanical stress
- Reliable and consistent optical performance
- Durable and easy to install
- Suitable for telecom and testing environments

## Construction:

Parameter	Details
Fiber Type	Multimode (MM)
Fiber Standard	OM1 (50/125 $\mu$ m)
Cable Structure	Simplex (1 Fiber)
Cable Diameter	2.0 mm / 3.0 mm (optional)
Outer Jacket	LSZH or PVC (optional)
Connector A	FC/UPC
Connector B	FC/UPC
Ferrule Material	Zirconia Ceramic
Strength Member	Aramid Yarn (Kevlar)

## Applications:

- Laboratory and testing equipment
- Industrial and legacy systems
- LAN (Local Area Networks)
- Data centers (short-distance links)
- Optical Distribution Frames (ODF)
- Measurement and monitoring systems

**Fiber Specifications:**

Parameter	Value
Fiber Type	Multimode
Standard	OM1 (50/125 $\mu\text{m}$ )
Operating Wavelength	850 nm / 1300 nm
Attenuation @850 nm	$\leq 3.5$ dB/km
Attenuation @1300 nm	$\leq 1.0$ dB/km
Bandwidth	200 MHz·km @850 nm
Mode Type	Graded-index multimode

**Optical Performance:**

Parameter	Value
Insertion Loss	$\leq 0.3$ dB
Return Loss	$\geq 35$ dB
Repeatability	$\leq 0.1$ dB
Durability	$\geq 1000$ mating cycles
Transmission Type	Short-range applications

**Environmental Conditions:**

- Operating Temperature: -20°C to +70°C
- Storage Temperature: -25°C to +70°C
- Indoor use only