

## Optical Fiber Patch Cord

### TECHNICAL DATA SHEET

#### **LSZH Fiber Optic Patch Cord MM (OM3) 50/125 (SC-UPC/SC-UPC) Simplex (3.0 mm)**



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### **Product Description:**

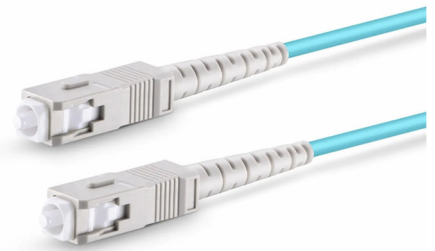
The LSZH Fiber Optic Patch Cord Multimode OM3 (50/125  $\mu\text{m}$ ) SC-UPC to SC-UPC Simplex 3.0 mm is designed for high-speed optical communication in modern data centers, enterprise networks, and high-bandwidth applications.

It features SC connectors with UPC polishing on both ends, providing reliable low-loss performance and secure push-pull locking. The simplex configuration uses a single fiber core for one-way transmission, making it suitable for monitoring systems, testing environments, and dedicated optical links.

OM3 laser-optimized multimode fiber supports significantly higher bandwidth and longer transmission distances compared to OM1 and OM2, making it suitable for 10G and higher-speed Ethernet networks.

### **Features:**

- SC–SC UPC connectivity for stable performance
- Simplex design for single-direction transmission
- OM3 laser-optimized fiber for high-speed applications
- Supports 10G Ethernet and high-bandwidth systems
- LSZH jacket for enhanced fire safety
- Low insertion loss and stable optical performance
- Durable 3.0 mm cable construction



## Construction:

Parameter	Details
Fiber Type	Multimode (MM)
Fiber Standard	OM3 (50/125 $\mu\text{m}$ )
Cable Structure	Simplex (1 Fiber)
Cable Diameter	3.0 mm
Outer Jacket	LSZH (Low Smoke Zero Halogen)
Connector A	SC/UPC
Connector B	SC/UPC
Ferrule Material	Zirconia Ceramic
Strength Member	Aramid Yarn (Kevlar)

## Applications:

- Data centers and cloud infrastructure
- 10G Ethernet networks
- High-speed LAN environments
- Storage Area Networks (SAN)
- Structured cabling systems
- Monitoring and testing systems

## Fiber Specifications:

Parameter	Value
Fiber Type	Laser-Optimized Multimode
Standard	OM3 (50/125 $\mu\text{m}$ )
Operating Wavelength	850 nm / 1300 nm
Attenuation @850 nm	$\leq 3.0$ dB/km
Attenuation @1300 nm	$\leq 1.0$ dB/km
Bandwidth	2000 MHz·km @850 nm
Mode Type	Graded-index multimode
Ethernet Support	10G Ethernet and higher-speed applications

## 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	Simplex (Single Fiber)

**Environmental Conditions:**

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