

Optical Fiber Patch Cord

TECHNICAL DATA SHEET

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



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Product Description:

The LSZH Fiber Optic Patch Cord Multimode OM1 (50/125 μm) ST-UPC to ST-UPC Simplex 3.0 mm is designed for short-distance optical communication in enterprise, telecom, and industrial environments.

It features ST connectors with a **bayonet-style twist-lock mechanism**, ensuring secure and stable connections, especially in legacy systems. The simplex design uses a single fiber core for one-way transmission, making it suitable for monitoring, testing, and dedicated signal paths.

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

Features:

- ST–ST secure twist-lock connectivity
- Simplex design for single-direction transmission
- OM1 multimode fiber for short-distance communication
- LSZH jacket for enhanced fire safety
- Stable optical performance with low insertion loss
- Durable 3.0 mm cable construction
- Easy installation and maintenance



Construction:

Parameter	Details
Fiber Type	Multimode (MM)
Fiber Standard	OM1 (50/125 μm)
Cable Structure	Simplex (1 Fiber)
Cable Diameter	3.0 mm
Outer Jacket	LSZH (Low Smoke Zero Halogen)
Connector A	ST/UPC
Connector B	ST/UPC
Ferrule Material	Zirconia Ceramic
Strength Member	Aramid Yarn (Kevlar)

Applications:

- LAN (Local Area Networks)
- Industrial and legacy network systems
- Data centers (short-distance links)
- Patch panels and ODF systems
- Testing and measurement equipment
- Signal routing and monitoring

Fiber Specifications:

Parameter	Value
Fiber Type	Multimode
Standard	OM1 (50/125 μm)
Operating Wavelength	850 nm / 1300 nm
Attenuation @850 nm	≤ 3.5 dB/km
Attenuation @1300 nm	≤ 1.0 dB/km
Bandwidth	200 MHz·km @850 nm
Mode Type	Graded-index multimode
Compatibility	Legacy multimode systems

Optical Performance:

Parameter	Value
Insertion Loss	≤ 0.3 dB
Return Loss	≥ 35 dB
Repeatability	≤ 0.1 dB
Durability	≥ 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