

Optical Fiber Patch Cord

TECHNICAL DATA SHEET

LSZH Fiber Optic Patch Cord MM (OM2) 50/125 (SC-UPC/ST-UPC) Simplex 3.0 mm



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Product Description:

The LSZH Fiber Optic Patch Cord Multimode OM2 (50/125 μm) SC-UPC to ST-UPC Simplex 3.0 mm is designed for reliable short- to medium-distance optical communication in telecom, enterprise, and industrial environments.



It combines **SC connectors with push-pull locking** and **ST connectors with bayonet twist-lock coupling**, providing stable and flexible connectivity between different fiber interfaces.

The simplex configuration uses a single fiber core for one-way transmission, making it suitable for monitoring systems, testing equipment, and dedicated signal paths. OM2 multimode fiber provides improved bandwidth and transmission performance compared to OM1.

Features:

- SC–ST hybrid connectivity for flexible integration
- Simplex design for single-direction transmission
- OM2 multimode fiber with improved bandwidth over OM1
- LSZH jacket for enhanced fire safety
- Low insertion loss and stable optical performance
- Durable 3.0 mm cable construction
- ST twist-lock connector provides secure connection

Construction:

Parameter	Details
Fiber Type	Multimode (MM)
Fiber Standard	OM2 (50/125 μm)
Cable Structure	Simplex (1 Fiber)
Cable Diameter	3.0 mm
Outer Jacket	LSZH (Low Smoke Zero Halogen)
Connector A	SC/UPC
Connector B	ST/UPC
Ferrule Material	Zirconia Ceramic
Strength Member	Aramid Yarn (Kevlar)

Applications:

- Telecom and communication systems
- Testing and measurement equipment
- Patch panels and ODF systems
- Data centers and enterprise networks
- Monitoring and signal routing applications
- Industrial fiber optic installations

Fiber Specifications:

Parameter	Value
Fiber Type	Multimode
Standard	OM2 (50/125 μm)
Operating Wavelength	850 nm / 1300 nm
Attenuation @850 nm	≤ 3.0 dB/km
Attenuation @1300 nm	≤ 1.0 dB/km
Bandwidth	500 MHz·km @850 nm
Mode Type	Graded-index multimode
Compatibility	Backward compatible with OM1 systems

Optical Performance:

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