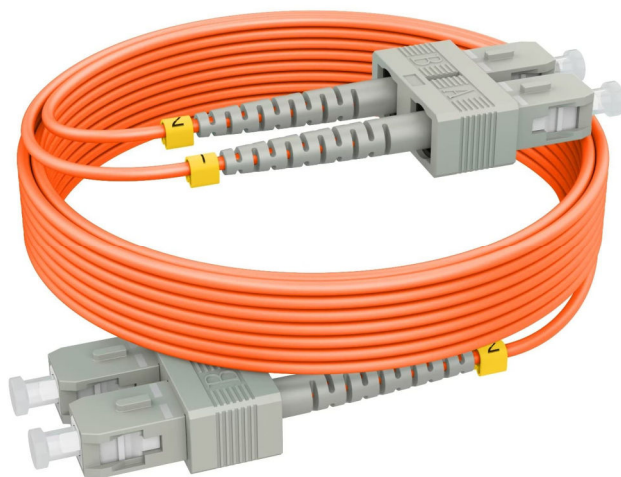


Optical Fiber Patch Cord

TECHNICAL DATA SHEET

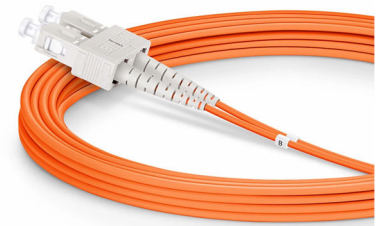
LSZH Fiber Optic Patch Cord MM (OM2) 50/125 (SC-UPC/SC-UPC) Duplex 3.0 mm



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

Product Description:

The LSZH Fiber Optic Patch Cord Multimode OM2 (50/125 μm) SC-UPC to SC-UPC Duplex 3.0 mm is designed for reliable short- to medium-distance optical communication in enterprise networks and data center environments.



It uses SC connectors with UPC polishing on both ends, providing stable low-loss performance and easy push-pull installation. The duplex configuration supports simultaneous transmit and receive (Tx/Rx), making it suitable for Ethernet, switching, and structured cabling systems.

OM2 multimode fiber offers higher bandwidth and improved performance compared to OM1, supporting better transmission quality and longer link distances.

Features:

- SC–SC UPC connectors for stable optical performance
- Duplex structure for simultaneous transmission and reception
- OM2 multimode fiber with improved bandwidth over OM1
- LSZH jacket for enhanced fire safety
- Low insertion loss and stable signal quality
- Easy installation and maintenance



Construction:

Parameter	Details
Fiber Type	Multimode (MM)
Fiber Standard	OM2 (50/125 μm)
Cable Structure	Duplex (Zipcord – 2 Fibers)
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:

- LAN (Local Area Networks)
- Ethernet switches and routers
- Structured cabling systems
- High-density patch panels
- Short to medium-distance optical links

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

Environmental Conditions:

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