

Optical Fiber Patch Cord

TECHNICAL DATA SHEET

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



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Product Description:

The LSZH Fiber Optic Patch Cord Multimode OM2 (50/125 μm) with SC/UPC to ST/UPC connectors, in a duplex 3.0 mm construction, is designed for reliable short- and medium-distance optical communication in LAN, telecommunications, data communication, and fiber distribution applications.



It uses OM2 50/125 μm multimode optical fiber, providing reliable transmission performance for multimode network applications. The SC/UPC and ST/UPC connectors provide accurate fiber alignment and stable mechanical coupling.

The duplex construction contains two optical fibers, providing bidirectional optical connectivity. The LSZH (Low Smoke Zero Halogen) jacket provides enhanced safety for indoor installations by reducing smoke and halogen emissions in the event of fire.

The 3.0 mm cable construction provides additional mechanical protection and durability for patching and interconnection applications.

Features:

- Multimode OM2 50/125 μm fiber
- Compliant with ITU-T G.651.1 / IEC 60793-2-10
- SC/UPC to ST/UPC connector configuration
- Duplex construction
- 2-fiber configuration
- 3.0 mm outer diameter
- LSZH Low Smoke Zero Halogen jacket
- Low insertion loss
- High return loss

- High-precision ceramic ferrules
- Reliable connector coupling
- Suitable for indoor fiber optic installations
- Compatible with multimode optical networking equipment
- Factory terminated and tested

Fiber Specifications:

Specification	Value
Fiber Type	Multimode (MM)
Fiber Category	OM2
Standard	50/125 μm Multimode
Core Diameter	50 μm
Cladding Diameter	125 μm
Fiber Count	2 Fibers
Configuration	Duplex
Operating Wavelengths	850 nm / 1300 nm
Attenuation @ 850 nm	$\leq 3.5 \text{ dB/km}^*$
Attenuation @ 1300 nm	$\leq 1.5 \text{ dB/km}^*$
Bandwidth @ 850 nm	$\geq 500 \text{ MHz} \cdot \text{km}^*$
Bandwidth @ 1300 nm	$\geq 500 \text{ MHz} \cdot \text{km}^*$
Fiber Standard	IEC 60793-2-10 / OM2

Cable Specifications

Specification	Value
Cable Type	Duplex
Number of Fibers	2
Cable Diameter	3.0 mm
Jacket Material	LSZH
Jacket Type	Low Smoke Zero Halogen
Jacket Color	Orange
Strength Member	Aramid Yarn
Fiber Type	Multimode OM2
Fiber Size	50/125 μm

Connector Specifications

Specification	Side A	Side B
Connector Type	SC/UPC	ST/UPC
Polish Type	UPC	UPC
Ferrule	Ceramic	Ceramic
Configuration	Duplex	Duplex
Fiber Count	2	2

Optical Performance

Parameter	Specification
Insertion Loss	≤ 0.30 dB*
Return Loss	≥ 35 dB*
Connector Polish	UPC
Optical Testing	100% Factory Tested

Mechanical & Environmental Specifications

Parameter	Specification
Operating Temperature	-20°C to +60°C*
Storage Temperature	-40°C to +85°C*
Jacket Material	LSZH
Outer Diameter	3.0 mm
Cable Construction	Duplex
Bend Performance	Standard Multimode
RoHS	Compliant*

Applications

- LAN Networks
- Data Communication Networks
- Telecommunications
- Data Centers
- Optical Distribution Frames (ODF)
- Fiber Patch Panels
- Building Backbone Networks
- Fiber Optic Equipment Interconnection
- Multimode Ethernet Networks
- Indoor Fiber Optic Cabling