

Optical Fiber Patch Cord

TECHNICAL DATA SHEET

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



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Product Description:

The LSZH Fiber Optic Patch Cord Multimode OM2 (50/125 μm) with FC/UPC to FC/UPC connectors, in a duplex 3.0 mm construction, is designed for reliable optical connectivity in LAN, telecommunications, data communication, and fiber distribution networks.

It utilizes OM2 50/125 μm multimode optical fiber, providing reliable transmission performance for multimode optical networking applications. The FC/UPC connectors provide precise fiber alignment and secure threaded coupling, making them suitable for applications requiring stable and reliable optical connections.

The duplex construction contains two optical fibers, supporting bidirectional optical communication. 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 outer diameter provides good mechanical protection and durability for patching and equipment interconnection.

Features:

- Multimode OM2 50/125 μm fiber
- Compliant with applicable IEC 60793-2-10 standards
- FC/UPC to FC/UPC connector configuration
- Duplex, 2-fiber construction
- 3.0 mm outer diameter
- LSZH Low Smoke Zero Halogen jacket
- Low insertion loss
- High return loss
- High-precision ceramic ferrules



- Threaded FC connector coupling
- Reliable and stable optical connection
- Factory terminated and tested
- Suitable for indoor fiber optic installations
- Compatible with multimode optical networking equipment

Fiber Specifications:

Specification	Value
Fiber Type	Multimode (MM)
Fiber Category	OM2
Fiber Size	50/125 μm
Core Diameter	50 μm
Cladding Diameter	125 μm
Fiber Count	2 Fibers
Configuration	Duplex
Operating Wavelengths	850 nm / 1300 nm
Attenuation @ 850 nm	≤ 3.5 dB/km
Attenuation @ 1300 nm	≤ 1.5 dB/km
Bandwidth @ 850 nm	≥ 500 MHz·km
Bandwidth @ 1300 nm	≥ 500 MHz·km
Fiber Standard	IEC 60793-2-10

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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	FC/UPC	FC/UPC
Polish Type	UPC	UPC
Ferrule	Ceramic	Ceramic
Coupling Type	Threaded	Threaded
Configuration	Duplex	Duplex

Fiber Count	2	2
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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
RoHS	Compliant

Applications

- LAN Networks
- Data Communication Networks
- Telecommunications

- Data Centers