FiberLight

PN: FLPCO2DX-SC-000-FC-LS

Optical Fiber Patch Cord

TECHNICAL DATA SHEET

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

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Product Description:

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

It combines **SC connectors with push-pull locking** and **FC connectors with threaded screw coupling**, making it suitable for hybrid network environments that require stable and secure fiber connections.

The duplex structure supports simultaneous transmit and receive (Tx/Rx), ensuring efficient bidirectional communication. OM2 multimode fiber provides higher bandwidth and improved transmission performance compared to OM1.

Features:

- SC–FC hybrid connectivity for flexible integration
- Duplex design for simultaneous Tx/Rx communication
- 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
- FC threaded connector ensures vibration-resistant connection

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	FC/UPC
Ferrule Material	Zirconia Ceramic
Strength Member	Aramid Yarn (Kevlar)

Applications:

- Data centers and server rooms
- LAN (Local Area Networks)
- Telecom and communication systems
- Patch panels and ODF systems
- Industrial fiber networks
- Hybrid network infrastructure integration

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	Duplex (Tx/Rx)

Environmental Conditions:

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