



PN: FLPCO1DX-SC-000-ST-LS

Optical Fiber Patch Cord

TECHNICAL DATA SHEET

**LSZH Fiber Optic Patch Cord MM
(OM1) 50/125 SC-UPC/ST-UPC Duplex
3.0 mm**



LSZH Fiber Optic Patch Cord MM (OM1) 50/125 (SC-UPC/ ST-UPC) Duplex 3.0 mm

Product Description:

The LSZH Fiber Optic Patch Cord Multimode OM1 (50/125 μm) SC-Connector to ST-Connector Duplex 3.0 mm (1 Meter) is designed for short-distance optical communication in enterprise and structured cabling systems.

This hybrid patch cord connects devices with different interfaces, combining the SC connector (push-pull type) and the ST connector (bayonet-style locking). The duplex configuration supports simultaneous transmit and receive (Tx/Rx), making it suitable for Ethernet and LAN environments.

The OM1 multimode fiber is optimized for LED-based transmission and short-range applications.

Features:

- Hybrid SC–ST connectivity for flexible integration
- Duplex design for simultaneous Tx/Rx communication
- OM1 multimode fiber for short-distance transmission
- LSZH jacket for enhanced fire safety
- Easy installation and maintenance
- Durable 3.0 mm cable construction
- Reliable performance in legacy and enterprise networks



Applications:

- Aerial installation on power transmission lines
- Telecom backbone and long-distance networks
- Rural and intercity fiber deployment
- High-voltage environments
- Utility and infrastructure communication systems



Fiber Specifications:

Parameter	Value
Fiber Type	Multimode
Standard	OM1 (50/125 μm)
Operating Wavelength	850 nm / 1300 nm
Attenuation @850 nm	≤ 3.5 dB/km
Attenuation @1300 nm	≤ 1.0 dB/km
Bandwidth	200 MHz·km @850 nm
Mode Type	Graded-index multimode
Compatibility	Suitable for legacy multimode systems

Optical Performance:

Parameter	Value
Insertion Loss	≤ 0.3 dB
Return Loss	≥ 35 dB
Repeatability	≤ 0.1 dB
Durability	≥ 1000 mating cycles
Transmission Distance	Short-range applications

Environmental Conditions:

- Operating Temperature: -20°C to $+70^{\circ}\text{C}$
- Storage Temperature: -25°C to $+70^{\circ}\text{C}$
- Indoor use only