



PN:FLPCO3SX-FC-000-FC-LS

Optical Fiber Patch Cord

TECHNICAL DATA SHEET

**LSZH Fiber Optic Patch Cord MM  
(OM3) 50/125 (FC-UPC/FC-UPC)  
Simplex (3.0 mm)**



## **LSZH Fiber Optic Patch Cord MM (OM3) 50/125 (FC-UPC/FC-UPC) Simplex (3.0 mm)**

### **Description**

The FC-UPC to FC-UPC OM3 Multimode Fiber Optic Patch Cord is a high-performance simplex optical cable designed for high-speed data transmission in LAN, data center, FTTH, and telecommunication applications. The cable utilizes laser-optimized 50/125  $\mu\text{m}$  OM3 multimode fiber and features FC connectors with UPC polishing to ensure low insertion loss and reliable signal transmission. The LSZH (Low Smoke Zero Halogen) jacket provides enhanced safety in indoor installations.

### **Features**

- Laser-optimized OM3 50/125  $\mu\text{m}$  multimode fiber for high-speed network applications.
- FC-UPC connectors on both ends for secure threaded connections and stable performance.
- Low insertion loss and high return loss for reliable signal transmission.
- LSZH (Low Smoke Zero Halogen) jacket for improved fire safety and reduced toxic emissions.
- Suitable for 10 Gigabit Ethernet, data centers, LAN, SAN, and telecommunication networks.
- Factory terminated and 100% tested for optical performance.
- Excellent repeatability and interchangeability.
- Durable 3.0 mm outer diameter cable construction.
- RoHS compliant and environmentally friendly materials.
- Available in various standard and custom cable lengths.
- High mechanical strength with good flexibility and bend resistance



**Technical Specifications:**

Category	Parameter	Specification
<b>Fiber Type</b>	Mode	Multimode OM3
	Core/Cladding	50/125 $\mu\text{m}$
	Wavelength	850 nm / 1300 nm
<b>Optical Performance</b>	Insertion Loss	$\leq 0.3$ dB
	Return Loss	$\geq 30$ dB (UPC)
	Attenuation	3.0 dB/km @ 850 nm / 1.0 dB/km @ 1300 nm
<b>Connector</b>	Type	FC-UPC to FC-UPC
	Polish	UPC (Ultra Physical Contact)
<b>Cable</b>	Type	Simplex
	Outer Diameter	3.0 mm
	Jacket Material	LSZH (Low Smoke Zero Halogen)
<b>Mechanical</b>	Tensile Strength	$\geq 90$ N
	Bend Radius (Dynamic)	30 mm
	Bend Radius (Static)	15 mm
<b>Environmental</b>	Operating Temp	-20°C to +70°C
	Storage Temp	-40°C to +85°C

	Installation Temp	-10°C to +60°C
<b>Standards</b>	Compliance	ISO/IEC 11801, TIA/EIA-568, IEC 61754, RoHS

## Applications

- High-speed data center interconnects (server, switch, storage connections)
- Local Area Networks (LAN) backbone and horizontal cabling
- Telecommunication networks for signal distribution and patching
- Fiber distribution frames (ODF) and patch panel interconnections
- FTTX (Fiber to the X) deployments such as FTTH and FTTB
- Enterprise networks requiring high bandwidth and low latency
- Video transmission systems and surveillance networks (CCTV over fiber)
- Medical imaging and laboratory equipment requiring stable optical links
- Industrial communication systems in electrically noisy environments
- Short to medium distance multimode fiber links supporting 10G Ethernet and beyond