



PN:FLPCO3DX-FC-000-FC-LS

Optical Fiber Patch Cord

TECHNICAL DATA SHEET

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



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Description

The FC-UPC to FC-UPC OM3 multimode duplex fiber optic patch cord is designed for high-performance optical communication networks requiring reliable and stable data transmission. It uses laser-optimized 50/125 μm OM3 fiber, suitable for high-bandwidth applications such as 10G Ethernet. The duplex structure allows simultaneous bidirectional communication. The LSZH jacket ensures safety in indoor installations by reducing smoke and halogen emissions during fire conditions.

Features

- OM3 laser-optimized **50/125 μm multimode fiber**
- **Duplex configuration** for simultaneous transmit/receive communication
- FC-UPC connectors on both ends for secure threaded connection
- Low insertion loss and high return loss performance
- LSZH (Low Smoke Zero Halogen) jacket for safety in indoor environments
- Supports high-speed applications up to **10 Gigabit Ethernet**
- Factory terminated and 100% tested for quality assurance
- High durability and stable mechanical performance
- Excellent repeatability and interchangeability
- Aqua jacket color for OM3 identification
- RoHS compliant and environmentally friendly materials

Technical Specifications

Category	Parameter	Specification
Fiber Type	Mode	Multimode OM3
	Core/Cladding	50/125 μm
	Wavelength	850 nm / 1300 nm
Cable Type	Structure	Duplex
	Jacket	LSZH
	Diameter	3.0 mm
Connector	Type	FC-UPC to FC-UPC
	Polish	UPC
Optical Performance	Insertion Loss	≤ 0.3 dB
	Return Loss	≥ 30 dB
Mechanical	Tensile Strength	≥ 90 N
	Bend Radius	30 mm (dynamic), 15 mm (static)
Environmental	Operating Temp	-20°C to +70°C
	Storage Temp	-40°C to +85°C
Standards	Compliance	ISO/IEC 11801, TIA/EIA-568, IEC 61754, RoHS

Applications

- Data centers and high-density server connections
- Enterprise LAN backbone and inter-rack connections
- Telecommunication and backbone fiber networks
- Fiber patch panels and optical distribution frames (ODF)
- FTTH / FTTB structured cabling systems
- High-speed 10G Ethernet networks
- CCTV and security monitoring systems over fiber
- Industrial communication systems with EMI immunity
- Medical and laboratory optical systems
- Short-range multimode high-bandwidth links