PN:FLPCO4DX-LC-000-LC-LS

Optical Fiber Patch Cord

TECHNICAL DATA SHEET

LSZH Fiber Optic Patch Cord MM (OM4) 50/125 (LC-UPC/LC-UPC) Duplex (3.0 mm)

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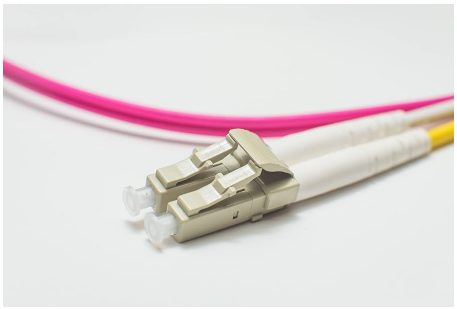
Description

The LC-UPC to LC-UPC OM4 multimode duplex fiber optic patch cord is designed for high-density, ultra-high-speed optical networks requiring maximum bandwidth and low loss performance. It uses laser-optimized 50/125 µm OM4 fiber, optimized for short-reach 10G, 40G, and 100G Ethernet applications in data centers and enterprise backbone networks. LC connectors provide a compact form factor for high-density patching environments. The LSZH jacket ensures improved fire safety in indoor installations.

Features



- OM4 laser-optimized 50/125 µm multimode fiber
- Duplex configuration for simultaneous transmit and receive communication
- LC-UPC connectors with compact high-density design
- Supports ultra-high bandwidth applications: 10G / 40G / 100G Ethernet
- Low insertion loss and high return loss performance
- LSZH (Low Smoke Zero Halogen) jacket for enhanced indoor safety
- Factory terminated and 100% tested for optical performance
- High durability and excellent flexibility for dense installations
- Aqua violet jacket color for OM4 identification
- RoHS compliant and environmentally safe materials
- Backward compatible with OM3 systems

Technical Specifications

Category	Parameter	Specification
Fiber Type	Mode	Multimode OM4
	Core/Cladding	50/125 µm
	Wavelength	850 nm / 1300 nm
Cable Type	Structure	Duplex
	Jacket Material	LSZH
	Outer Diameter	3.0 mm
Connector	Type	LC-UPC to LC-UPC
	Polish	UPC
Optical Performance	Insertion Loss	≤ 0.3 dB
	Return Loss	≥ 30 dB
Bandwidth	Effective Modal Bandwidth	≥ 4700 MHz·km @ 850 nm
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

- High-density data centers and cloud infrastructure
- 10G/40G/100G Ethernet high-speed networks
- Enterprise core and backbone networking systems
- SAN (Storage Area Networks) and server interconnects
- Fiber distribution frames (ODF) and patch panels
- Hyperscale and hyperspeed computing environments
- Telecommunication backbone networks
- FTTH / FTTB structured cabling systems
- High-performance computing (HPC) clusters
- Short-range multimode high-bandwidth optical links