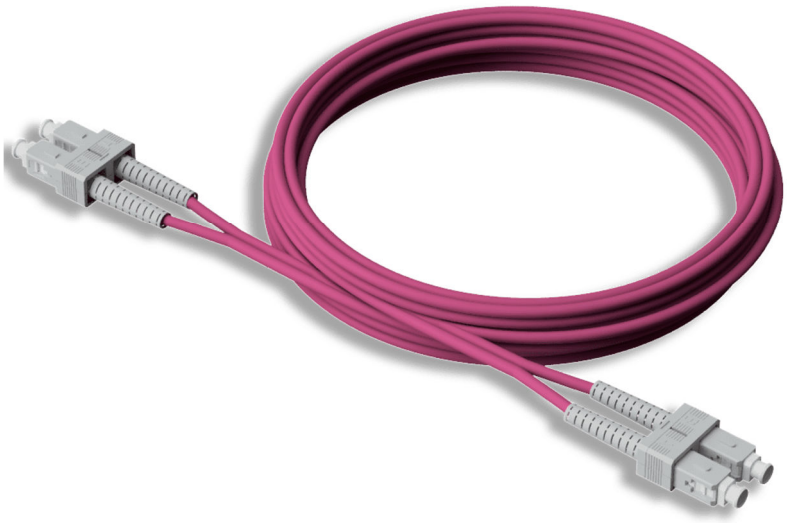
PN:FLPCO4DX-SC-000-SC-LS

Optical Fiber Patch Cord

TECHNICAL DATA SHEET

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



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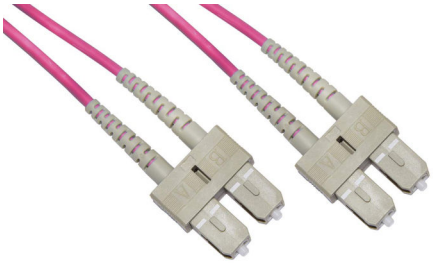
Description

The SC-UPC to SC-UPC OM4 multimode duplex fiber optic patch cord is designed for ultra-high-speed optical networks requiring superior bandwidth and low attenuation performance. It uses laser-optimized 50/125 µm OM4 fiber, making it suitable for 10G, 40G, and 100G Ethernet applications over short distances. The SC connectors provide a reliable push-pull snap-in mechanism for easy installation and stable connections. The LSZH jacket ensures enhanced fire safety and reduced toxic emissions in indoor environments.

Features



- OM4 laser-optimized **50/125 µm multimode fiber**
- **Duplex structure** for simultaneous transmit/receive communication
- SC-UPC connectors with push-pull snap-in locking system
- Supports higher bandwidth than OM3 for 10G/40G/100G applications
- Low insertion loss and high return loss performance
- LSZH (Low Smoke Zero Halogen) jacket for indoor safety
- Factory terminated and 100% tested for optical performance
- Excellent mechanical durability and flexibility
- Aqua violet jacket color for OM4 identification
- RoHS compliant and environmentally friendly 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	SC-UPC to SC-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-speed data centers (10G/40G/100G networks)
- Cloud computing and hyperscale infrastructure
- Enterprise backbone and core networking systems
- Fiber distribution frames (ODF) and patch panels
- SAN (Storage Area Networks) and server interconnects
- Telecommunications backbone networks
- High-performance computing (HPC) environments
- FTTH / FTTB structured cabling systems
- Video streaming and large data transfer systems
- Short-reach multimode high-bandwidth optical links