

LC – SC Duplex Fiber Optic Assemblies/Patch Cord

Features and Benefits

Applications:

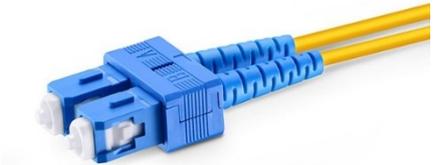
- Data Centers Passive to (GE/10G/40G/100G/400G, QSFP28, SFP+) Active connectivity.
- Telecom Networks/FTTH (Fiber-to-the-Home).
- Enterprise Networks: LAN/WAN connectivity.
- CATV & Broadcasting: High-speed signal transmission.

Key Features:

- Connector Type: SC (Subscriber Connector) – a push-pull, snap-in connector with a 2.5mm ferrule.
- Connector Type: LC (Lucent Connector) is a small form-factor connector with a 1.25mm ferrule, making it ideal for high-density applications.
- A duplex patch cord consists of two fiber cables (typically single-mode or multimode) with LC-SC connectors on both ends.
- Flexible design options: Choice of materials for strength elements and fiber properties dependent on application requirements.

Standard :

- TIA/EIA-568-C.3,
- IEC 61754-20,
- UL94V-0 for flame resistance.
- Telcordia GR-326 for connector reliability
- IEC 60332-1,2
- RoHS



Physical & Mechanical Specifications

Connector Type A/B	A: LC-UPC / B: SC-UPC Duplex
Connector Housing /Ferrule	ABS/Ceramic Zirconia
Cable Assembly Type	2 Fibers Tight-Buffered -Zipcord
Strength Potation	Aramid yarn (Kevlar®)
Outer Jacket Type & OD.	LSZH – 2.0mm
Connector Durability	1000 times
Tensile Strength	(Long-term ≥90 N /Short-term: ≥150 N)
Min. Bend Radius (Optical Fiber)	10mm
Min. Bend Radius (Fiber Cable)	20/10D (Dynamic/Static)
Operating Temperature	-10 to 70°C (14 to 158°F)
Storage Temperature	-20 to 70°C (-4 to 158°F)

Optical Characteristics

Fiber Type	Multi Mode (MM)	Single Mode (SM)
Core Type	OM3/OM4/OM5-50/125 μm	ITU-T G.652.D-G.657.A1 - 9/125μm
Wavelength	850 nm / 1300 nm	1310 nm / 1550 nm
Insertion Loss	≤0.3dB	≤0.3dB
Return Loss	≥20dB	≥50dB-UPC

Ordering Information

Fiber Type	ClearCurve® OM3	ClearCurve® OM4	ClearCurve® OM5	SMF-28® Ultra ITU-T G.652.D	SMF-28® Ultra ITU-T G.657.A1
Jacket Color	Aqua	Purple/Violet	Lime-Green	Yellow	Yellow
Part No.	CS-FP2DOM3-LC-SC-XX	CS-FP2DOM4-LC-SC--XX	CS-FP2DOM5-LC-SC-XX	CS-FP2D52D-LC-SC-XX	CS-FP2D57A-LC-SC-XX
Optional Length	01M, 02M, 03M, 06M 10M, 15M, 20M, 30M				