

LC – LC Duplex Fiber Optic Assemblies/Patch Cord

Features and Benefits

Applications:

- Data Centers (GE/10G/40G/100G/400G, QSFP28, SFP+) connectivity.
- Enterprise Networks (SAN, backbone, switch-to-switch).
- Fiber-to-the-Home (FTTH) and 5G Networks.
- Telecom & ISP Backbone Connections.

Key Features:

- 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 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: LC-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-LC-XX	CS-FP2DOM4-LC-LC-XX	CS-FP2DOM5-LC-LC-XX	CS-FP2D52D-LC-LC-XX	CS-FP2D57A-LC-LC-XX
Optional Length	01M, 02M, 03M, 06M 10M, 15M, 20M, 30M	01M, 02M, 03M, 06M 10M, 15M, 20M, 30M	01M, 02M, 03M, 06M 10M, 15M, 20M, 30M	01M, 02M, 03M, 06M 10M, 15M, 20M, 30M	01M, 02M, 03M, 06M 10M, 15M, 20M, 30M

