FC – FC/LC/SC Duplex Fiber Optic Assemblies/Patch Cord

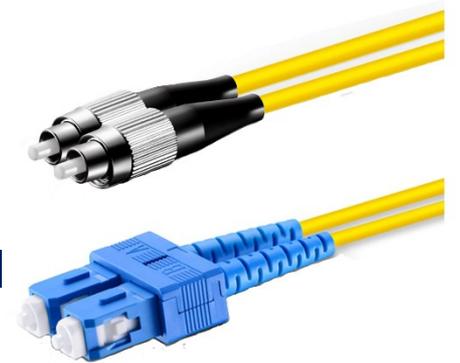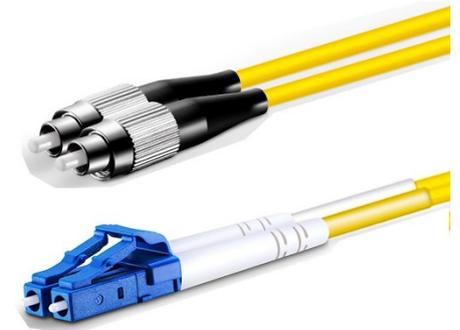## Features and Benefits

- **Applications:**
- Data Centers: ODF-to-ODF.
- Telecom Networks/FTTH (Fiber-to-the-Home).
- Enterprise Networks: LAN/WAN connectivity.
- CATV & Broadcasting: High-speed signal transmission.

- **Key Features:**
- Connector Type: FC (Ferrule Connector) – a circular screw-type fitting with a 2.5mm ferrule.
- A duplex patch cord consists of two fiber cables (typically single-mode or multimode) with A side FC B side FC/LC/SC optional 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.
- IEC 60332-1,2
- RoHS

Physical & Mechanical Specifications

Connector Type A/B	A: FC-UPC / B: FC/LC/SC -UPC Duplex
Connector Housing /Ferrule	A: FC Stainless Steel / B: LC/SC 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	Single Mode (SM)
Core Type	ITU-T G.652.D-G.657.A1 - 9/125µm
Wavelength	1310 nm / 1550 nm
Insertion Loss	≤0.3dB
Return Loss	≥50dB-UPC/≥60dB-APC

Ordering Information

Fiber Type	SMF-28® Ultra ITU-T G.652.D	SMF-28® Ultra ITU-T G.652.D	SMF-28® Ultra ITU-T G.652.D	SMF-28® Ultra ITU-T G.657.A1
Jacket Color	Yellow	Yellow	Yellow	Yellow
Part No.	CS-FP2D52D-FC-FC-XX	CS-FP2D52D-FC-LC-XX	CS-FP2D52D-FC-SC-XX	CS-FP2D57A-FC-APC-FC-APC-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