

SC-UPC /APC Simplex Fiber Optic Assemblies/Patch Cord

Features and Benefits

Applications:

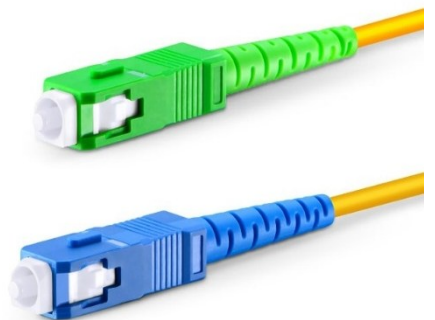
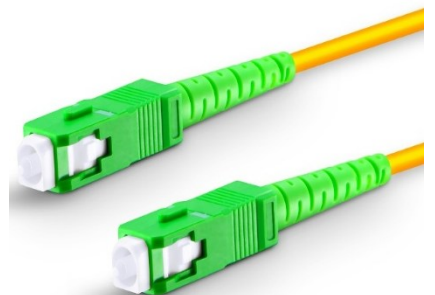
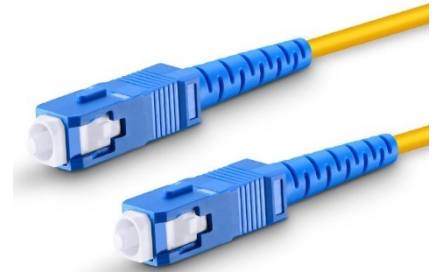
- Telecommunications (FTTH, GPON)
- CATV & Broadcasting
- Medical & Military (where low loss is critical)

Key Features:

- Connector Type: SC (Subscriber Connector) – a push-pull, snap-in connector with a 2.5mm ferrule.
- UPC (Ultra Physical Contact): Blue connector, polished for low back reflection (~-50dB).
- APC (Angled Physical Contact): Green connector, 8° angled polish for even lower back reflection (~-60dB), ideal for high-speed networks (FTTH, GPON).
- 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: SC-UPC/APC / B: SC-UPC/APC Simplex
Connector Housing /Ferrule	ABS/Ceramic Zirconia
Cable Assembly Type	1 Fibers Tight-Buffered
Strength Potation	Aramid yarn (Kevlar®)
Outer Jacket Type & OD.	LSZH – 3.0mm
Connector Durability	1000 times
Tensile Strength	(Long-term ≥60 N /Short-term: ≥100 N)
Min. Bend Radius (Optical Fiber)	10mm
Min. Bend Radius (Fiber Cable)	10/5D (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.657.A1	SMF-28® Ultra ITU-T G.657.A1	SMF-28® Ultra ITU-T G.657.A1
Jacket Color	Yellow	Yellow	Yellow	Yellow
Part No.	CS-FP3S52D-SC-SC-XX	CS-FP3S57A-SC-UPC-SC-UPC-XX	CS-FP3S57A-SC-APC-SC-APC-XX	CS-FP3S57A-SC-APC-SC-UPC-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