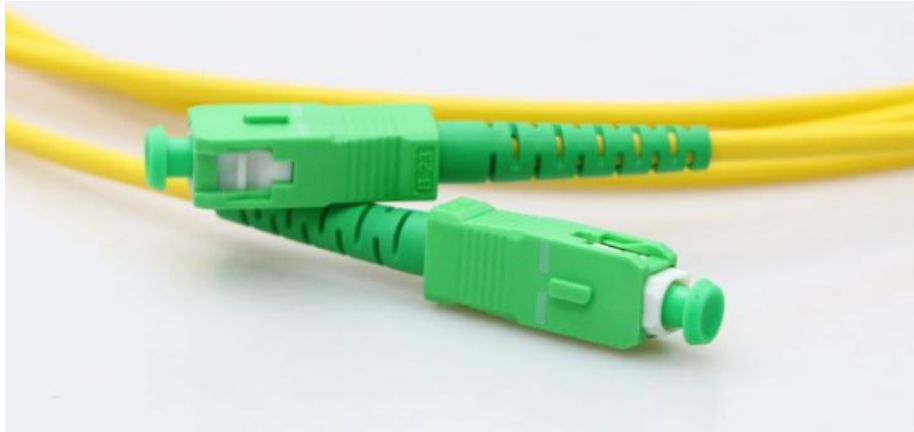




## SC-SC Fiber Optic Patch Cord Specification



### Application:

1. Optical fiber communication systems engineering
2. Fiber optic data communication network
3. Fiber CATV engineering
4. Other optical technology tests

### Features:

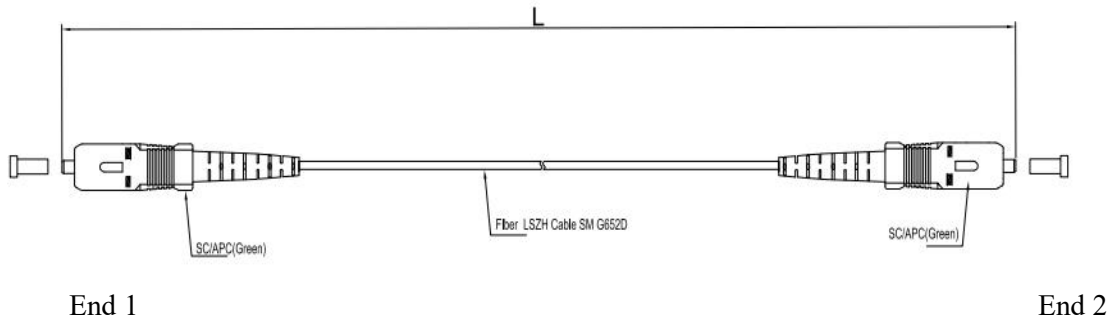
1. The style is diverse, the interface is complete
2. Low insertion loss and added loss
3. High return loss
4. High back loss, small volume, light weight
5. End-face geometry and quality superior than IEC and Telcordia standards.
6. G652D or G657A, LSZH, cable jacket.
7. Mechanical performance: IEC 61754-4 standard.
8. RoHS and REACH materials compliant.

### Connector Types:

Type	Reference	Note	
SC	IEC 61754-4	Single mode simplex	APC: Green connectors, Green boots
			UPC: Blue connectors, Blue boots

### Dimensional Diagrams:

SC 2.0mm&3.0mm simplex patchcord



**Patch cord versions:**

Jumper tolerance requirement	
Overall length (L) (M)	length of tolerance (CM)
$0 < L \leq 20$	+10/0

**End-Face Geometry:**

Item	APC (Ref: IEC 61755-3-2)
Radius of curvature (mm)	5 to 12
Fiber height (nm)	-100 to 100
Apex offset ( $\mu\text{m}$ )	0 to 50
APC angle ( $^\circ$ )	$8^\circ \pm 0.2^\circ$
Key error ( $^\circ$ )	0.2° max

**End-Face Quality (SM):**

Zone	Range ( $\mu\text{m}$ )	Scratches	Defects	Reference
A: Core	0 to 25	None		IEC 61300-3- 35:2015
B: Cladding	25 to 115	None		
C: Adhesive	115 to 135	None		
D: Contact	135 to 250	None		
E: Rest of ferrule		None		

**Mechanical Characteristics:**

Test	Conditions	Reference
Endurance	500 matings	IEC 61300-2-2
Vibration	Frequency: 10 to 55Hz, Amplitude: 0.75mm	IEC 61300-2-1
Cable retention	100N	IEC 61300-2-4
Strength of coupling mechanism	80N for 2 to 3mm cable	IEC 61300-2-6
Cable torsion	15N for 2 to 3mm cable	IEC 61300-2-5
Fall	10 drops, 1m drop height	IEC 61300-2-12
Static lateral load	1N for 1h	IEC 61300-2-42
Cold	-25°C, 96h duration	IEC 61300-2-17
Dry heat	+70°C, 96h duration	IEC 61300-2-18
Change of temperature	-25°C to +70°C, 12 cycles	IEC 61300-2-22
Humidity	+40°C at 93%, 96h duration	IEC 61300-2-19