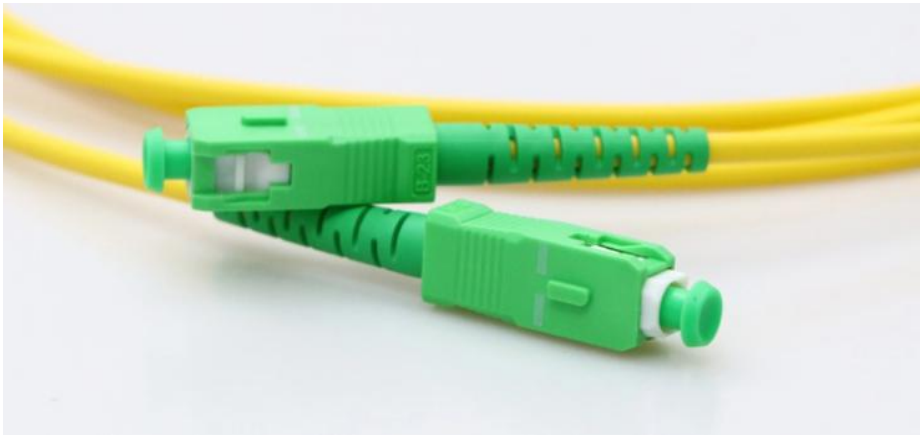
SC Fiber Optic Patch Cord Specification



Application：

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

Features：

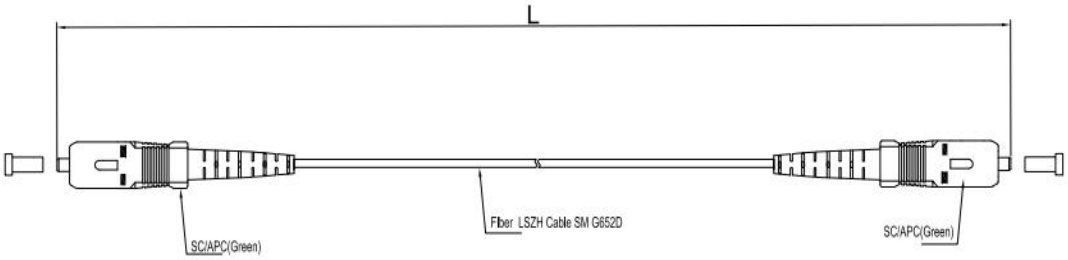
1.The style is diverse, the interface is complete
2.Low insertion loss and added loss
3.Height of attenuation
4.High back loss, small volume, light weight
5.End-face geometry and quality superior than IEC and Telcordia standards.
6.G652D or G657A,LSZH, cable jacket.
7.Mechanical performance: IEC 61754-4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



End 1 End 2

Patch cord versions:

Jumper tolerance requirement	
Overall length (L) （M）	length of tolerance（CM）
0＜L≤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 (μm)	0 to 50
APC angle (°)	8° ±0.2°
Key error (°)	0.2° max

End-Face Qualty (SM):

Zone	Range (μm)	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