

FEATURES

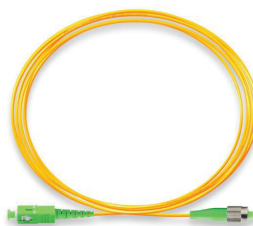
- 1.The style is diverse, the interface is complete
- 2.Low insertion loss and added loss
- 3.Height of attenuation
- 4.High back loss, small volume, light weight
- 5.End-face geometry and quality superior than IEC and Telcordia standards.
- 6.LSZH, OFNP, OFNR cable jacket.
- 7.Mechanical performance: IEC 61754-13 standard.
- 8.RoHS and REACH materials compliant.

APPLICATION

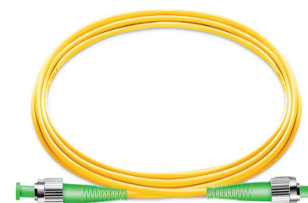
- 1.Optical fiber communication systems engineering
- 2.Fiber optic data communication network
- 3.Fiber CATV engineering
- 4.Other optical technology tests



SC-SC



SC-FC



FC-FC

CONNECTOR TYPES

Type	Reference		
FC / SC	IEC 61754-13	Single mode simplex	APC: Green boots
			UPC: Black boots
		Single mode duplex	APC: Green boots
			UPC: Black boots
		Multimode simplex	UPC: Black boots
Multimode duplex	UPC: Black boots		

PATCH CORD VERSIONS

Overall length (L)(M)	Jumpe	length of tolerance(CM)
$0 < L \leq 20$		+10/-0
$20 < L \leq 40$		+15/-0
$L > 40$		+0.5%L/-0

OPTICAL CHARACTERISTICS

Item	Parameter		Reference
	Single mode	Multimode	
Insertion loss	Typical value ≤ 0.15 dB; Maximum ≤ 0.30	Typical value ≤ 0.15 dB; Maximum ≤ 0.30	IEC 61300-3-34
Return loss	≥ 60 dB (APC); ≥ 50 dB (UPC)	≥ 30 dB (UPC)	IEC 61300-3-6

END-FACE GEOMETRY

Item	UPC (Ref: IEC 61755-3-1)	APC (Ref: IEC 61755-3-2)
Radius of curvature (mm)	10 to 25	5 to 12
Fiber height (nm)	-100 to 100	-100 to 100
Apex offset (µm)	0 to 50	0 to 50
APC angle (°)	/	8° ±0.2°
Key error (°)	/	0.2° max

END-FACE GEOMETRY

Zone	Range (µm)	Scratches	Defects	Reference
Core	0 to 25	None	None	
Cladding	25 to 115	None	None	
Adhesive	115 to 135	None	None	IEC 61300-3-35:2015
Contact	135 to 250	None	None	
Rest of ferrule		None	None	

END-FACE QUALTY (MM)

Zone	Range (µm)	Scratches	Defects	Reference
Core	0 to 65	None	None	
Cladding	65 to 115	None	None	
Adhesive	115 to 135	None	None	IEC 61300-3-35:2015
Contact	135 to 250	None	None	
Rest of ferrule		None	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 (patch cable); 5N (pigtail)	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 (patch cable); 0.2N for 5min (pigtail)	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

ORDER INFOMATION

PRODUCT	PART NUMBER
Patch Cord SC-SC, , APC, SM 9/125um, Duplex, 3M	F-APC-SCSC9-3-DX
Patch Cord SC-FC, APC, SM 9/125um, Duplex, 3M	F-APC-SCFC9-3-DX
Patch Cord FC-FC, APC, SM 9/125um, Duplex, 3M	F-APC-FCFC9-3-DX