

Shenzhen UnitekFiber Solution Limited

LC SC APC Fiber Optical Trunk Cable 72 Cores Single Mode Yellow OFNP

SC-SC Cable

SC-SC Cable Fiber Optic Patch cord means that the terminations are connect at both ends of the optical cable to realize the optical path active connection. Optical Fiber Patch cord is similar to coaxial cable except that there is no mesh shield. The light-transmitting glass core is in the central. The fiber core has a diameter of 50/125μm to 65/125μm for multi mode fiber patch cords, which is roughly equivalent to the thickness of a human hair. The diameter for single mode fiber core is 8μm to 10μm. The fiber core is wrapped by a glass which is having a lower index of refraction than the core to maintain the fiber within the core



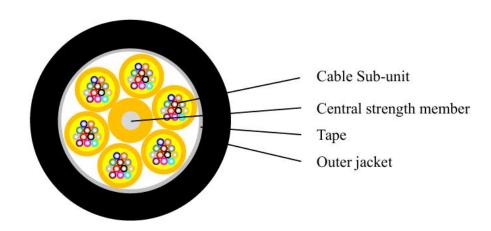


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Connector Technical Parameter

	Model	SM		
Connector A : SC				
Insertion Loss	Standard	≤0.3dB		
Return Loss		UPC≥50dB		
Durability(500 Matings)		≤0.2dB		
Test Wavelength		1310nm&1550nm		
Connector B: SC				
Insertion Loss	Standard	≤0.3dB		
Return Loss		UPC≥50dB		
Durability(500 Matings)		≤0.2dB		
Test Wavelength		1310nm&1550nm		

Cable Structure Diagram





Cable Dimensions and Constructions

Items		Descriptions
Tight-buffered Fiber	Dimension	850±50μm
	Fiber Count	72
	Material	PVC
	Color	Blue, Orange, Green, Brown, Gray, White
Strength Member	Material	Aramid Yarn
	Dimension	5.5±0.2m
	Material	LSZH
Cable Subunit	Color	Yellow
	Strength Member	Aramid Yarn
	Printing Marks	1# ~ 6#
Central Strength Member	FRP + LSZH	
	Material	LSZH-UV
Sheath	Color	Orange
	Diameter	20.5±0.5mm

Mechanical and Environmental Characteristics

Items	Descriptions	
	short-term	1500N
Tensile	long-term	800N
Const	short-term	1000 N/10cm
Crush	long-term	300 N/10cm
Min.Bend Radius (Dynamic)	mm	20D
Min.Bend Radius (Static)	mm	10D
Operating Temperature	- 2 0 C-+ 6 0 C	
Temperature Range	-2 0 C-+ 6 0 C	



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The properties of single mode optical fiber (ITU-T Rec. G652D)

Item	Specification
Fiber type	Single mode
Fiber material	Doped silica
Attenuation coefficient @ 1310 nm @ 1383 nm @ 1550 nm @ 1625 nm	≤ 0.36 dB/km ≤ 0.32 dB/km ≤ 0.22 dB/km ≤ 0.30 dB/km
Point discontinuity	≤ 0.05 dB
Cable cut-off wavelength	≤ 1260 nm
Zero-dispersion wavelength	1300 ~ 1324 nm
Zero-dispersion slope	$\leq 0.092 \text{ ps/(nm}^2.\text{km})$
Chromatic dispersion @ 1288 ~ 1339 nm @ 1271 ~ 1360 nm @ 1550 nm @ 1625 nm	≤3.5 ps/(nm. km) ≤5.3 ps/(nm. km) ≤18 ps/(nm. km) ≤22 ps/(nm. km)
PMD _Q (Quadrature average*)	≤0.2 ps/km ^{1/2}
Mode field diameter @ 1310 nm	9.2±0.4 um
Core / Clad concentricity error	≤ 0.5 um
Cladding diameter	$125.0 \pm 0.7 \text{ um}$
Cladding non-circularity	≤1.0%
Primary coating diameter	245 ± 10 um
Proof test level	100 kpsi (=0.69 Gpa), 1%
Temperature dependence $0 \text{oC} \sim +70 \text{oC}$ @ 1310 & 1550nm	≤ 0.1 dB/km