Bulk Fiber Optic Cables FC Fiber Pigtail SM G652D G657 PVC 2.0mm Customized Length

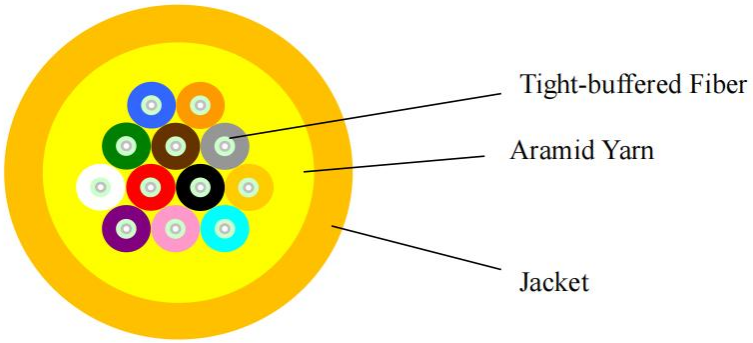
FC Fiber Optic Patch Cord

FC 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

Connector Technical Parameter

Model		SM
Connector A : FC		
Insertion Loss	Standard	≤0.3dB
Return Loss		UPC≥50dB APC≥60dB
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	12
	Material	PVC
	Color	Blue、Orange、Green、Brown、Gray、White、Red、Black、Yellow、Purple、Pink、Aqua
Strength Member	Material	Aramid Yarn
Sheath	Material	LSZH-UV
	Color	Orange

	Diameter	6.2mm

Mechanical and Environmental Characteristics

Items	Descriptions	
Tensile	short-term	600N
	long-term	300N
Crush	short-term	1000 N/10cm
	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	

The properties of single mode optical fiber (ITU-T Rec. G.652.D)

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	≤ 0.092 ps/(nm^2.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 ± 0.7 um
Cladding non-circularity	≤1.0%
Primary coating diameter	245 ± 10 um

Proof test level	100 kpsi (=0.69 Gpa), 1%
Temperature dependence 0oC~ +70oC @ 1310 & 1550nm	≤ 0.1 dB/km