FC-ST Pre-terminated Bulk Fiber Optic Jumper OM3 G652D G657 10G

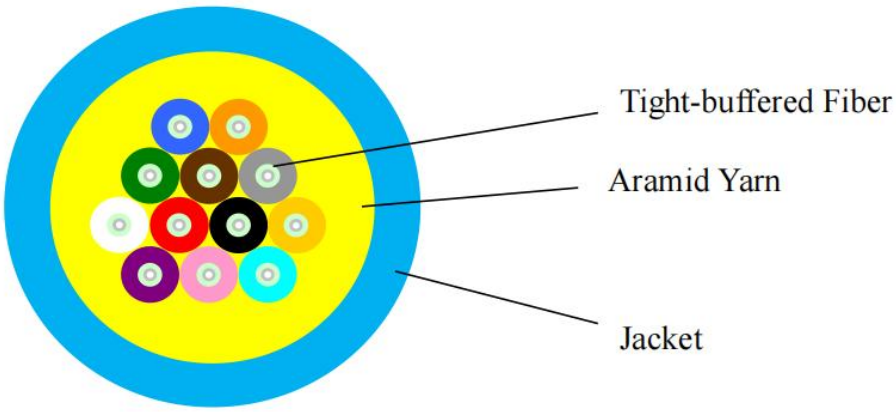
FC-ST Cable

FC-ST 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
Durability(500 Matings)		≤0.2dB
Test Wavelength		1310nm&1550nm
Connector B : ST		
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	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	

OM3-150 50/125 μ m Technical data

OM3-150 50/125μm Technical data			
Characteristic	**Condition**	**Data**	**Unit**
Optical properties			

Attenuation	850nm 1300nm	≤2.5 ≤0.7	dB/km dB/km
Bandwidth	850nm 1300nm	≥700 ≥500	MHz.km MHz.km
Effective bandwidth	850nm	≥950	MHz.km
10Gb / s Ethernet link length		150	m
Numerical aperture (NA)		0.185～0.215	
The differential modulus delay DMD		850nm DMD Inner template（ps/m） （radius 5～18μm） ≤0.7	850nm DMD Inner template （ps/m） （radius 0～23μm） ≤0.7
Backscatter characteristics **(1300nm)**			
Partly discontinuous point		≤0.1	dB
Fiber attenuation inhomogeneity		≤0.1	dB
Bidirectional backscattering coefficient difference		≤0.1	dB/km
Geometric characteristics			
Core diameter		50±2.5	μm
Cladding roundness		≤6.0	%
Coating diameter		125±2	μm
Cladding roundness		≤2.0	%
Coating / cladding concentricity error		≤1.5	μm
Coating diameter		245±10	μm
Core / package concentricity error		≤12.0	μm
Delivery length		1.1～8.8	km/reel
Environmental characteristics（850nm And 1300nm）			
Temperature additional attenuation	-60℃ ～+85℃	≤0.15	dB/km
Flooding additional attenuation	-10℃ ～+85℃，98%Relative	≤0.20	dB/km
Hot and humid additional attenuation	23℃±2℃	≤0.20	dB/km
Dry heat aging	85℃±2℃和 85% Relative	≤0.20	dB/km
Mechanical properties	85℃±2℃	≤0.20	dB/km
Screening tension			
The macro bend Additional attenuation 100 laps Φ75mm		≥9.0	N
Coating peeling force	850nm&1300nm	≤0.5	dB

Dynamic fatigue parameters	Typical average	1.5	N
Dry heat aging		≥20	