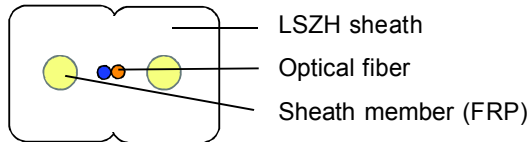




OPTICAL CABLE

Construction of cable



Color Identification

- Fibers color: Blue, Orange, Green, Brown
- Sheath color: White or Black

OPTICAL FIBER

Optical fiber characteristics (FPC G.657A FIBER)

Category	Description		Specifications
			G.657A
Optical Specifications	Attenuation	@ 1310nm	≤0.4dB/km
		@ 1550nm	≤0.3dB/km
	Attenuation discontinuity		≤0.05 dB
	Zero Dispersion Wavelength		1300~1324nm
	Zero Dispersion Slope		≤0.090ps/(nm ² .km)
	Dispersion	@ 1288-1339nm	≤3.5 ps/nm.km
		@ 1271-1360nm	≤5.3 ps/nm.km
@ 1550nm		≤18 ps/nm.km	
Cable Cutoff Wavelength(λ _{cc})		≤1260nm	
Geometric Specifications	Mode Field Diameter	@ 1310nm	(8.6~9.2)±0.4μm
	Cladding Diameter		125±0.7μm
	Cladding Non-Circularity		≤1.0%
	Coating Diameter		243±7μm
	Coating/Cladding Concentricity Error		≤8μm
	Core/Cladding Concentricity Error		≤0.6μm
Mechanical Specifications	Proof Test level		≥1.0%
	Fiber Curl Radius		≥4.0m
	Peak Coating Strip Force		1.3~8.9N

Fiber count		1/2	4
Attenuation G.657 (dB/km) @1310/@1550nm		0.4/0.3	0.4/0.3
Diameter (mm)		2.0X3.0(±0.15)	2.0X3.5(±0.15)
Weight (kg/km)		8.5	11
Tensile strength (N)	Long term	40	40
	short term	80	80
Crush resistance (N/100mm)	Long term	300	300
	short term	800	800
Bend radius (mm)	Static	10 (G.657A)	
	Dynamic	20 (G.657A)	
Operating temperature (°C)		-20~+60	
Easily strip each unit and easily separate the fiber from the sheath.			

- Simple structure ,light weight and high practicability;
- Novel flute design easily strip and splice, simplify the installation and maintenance;
- Two parallel FRP strength members ensure good performance of crush and tension resistance to protect the fiber;
- If G.657 fiber be put in the cable, ensure the very good bending performance. (Bend radius 10mm/G.657A)
- Low smoke, zero halogen and flame retardant sheath;