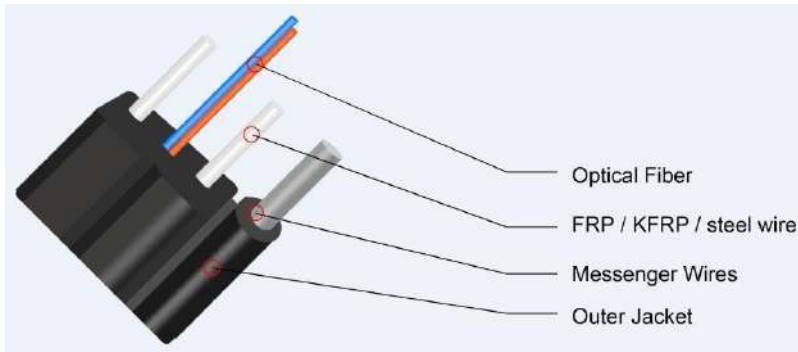


FTTH DROP OPTIC FIBER CABLE

1、 Introduction of fiber optical fibers

The typical bow-type drop optical cable includes central optical fibers with 2 frp as the strength members placed on both sides, frp as messenger wire, a LSZH sheath is extruded outside.

2、 Cable Cross -Section



3、 Fiber Optical

Fiber count	1
Color Of fiber	Blue Orange Green Brown
Fiber Type	G657A2
Strength member	FRP 0.5mm*2
Supporting messenger wire	1.0MM*x1FRP
Outer sheath	LSZH Lower smoke zero halogen
Cable Diameter dimensions	2.0(Height) × 5.2W ± 0.1 mm(width)
Operation temperature range	-20 °C to + 70 °C
Installation temperature range	-20 °C to + 60 °C
Transport and storage temperature range	-20 °C to + 70 °C
Tension Load (N)	Short term :800N Long term :500N
Crush Load(N)	Long term 1000 N/100mm Short term:2200N/100mm
Minimal installation bending radius	30 x OD
Minimal operation bending radius	15 x OD
Cable marking	The marking length 1meter apart , as required
Connector	4pcs sc/apc pigtails in onese of the drop cable

4、G657A1/G657A2 fiber

Category	Description		G657A1	G657A2/ B2
			Standard	Standard
Optical transmission performance	Attenuation coefficient	1310nm	≤0.35	≤0.35
		1383nm	≤0.35	≤0.35
		1550nm	≤0.21	≤0.21
		1625nm	≤0.23	≤0.23
	Attenuation inhomogeneity	1310nm、1550nm	≤0.03	≤0.05
	Attenuation discontinuity	1310nm、1550nm	≤0.03	≤0.05
	Wavelength attenuation characteristics	1288~1330nm	≤0.05	≤0.05
		1525~1575nm	≤0.05	≤0.05
	Dispersion characteristic	The zero dispersion wavelength nm	1300~1324	1300~1324
		Zero dispersion slope	≤0.092	≤0.092
		1288~1339nm	≤3.5	≤3.5
		1271~1360nm	≤5.3	≤5.3
		1550nm	≤18	≤18
		1625nm	≤22	≤22
	The polarization mode dispersion of the fiber		≤0.1	≤0.1
	Fiber cutoff wavelength		≤1260	≤1260
	Macro bending loss (10 laps, 30mm)	1550nm	≤0.2dB	≤0.03
	(10 laps, 30mm)	1625nm	≤0.5dB	≤0.1
	(1 lap, 20mm)	1550nm	≤0.3dB	≤0.1
	(1 lap, 20mm)	1625nm	≤1.0dB	≤0.2
(1 lap, 15mm)	1550nm	-	≤0.5	
(1 lap, 15mm)	1625nm	-	≤1.0	
Mode field diameter	1310nm	8.8±0.4	8.6±0.4	
Dimension parameter	Warp degrees		≥4.0	≥4.0
	Cladding diameter		125 ± 0.7	125 ± 0.7
	Core/package concentricity		≤0.5	≤0.5
	Cladding non-circularity		≤1.0%	≤1.0%
	Coating diameter		243± 5	243± 5
	Coating concentricity		≤8	≤8
	Coating roundness		≤3%	≤3%
Mechanical property	Strain		≥1.05%	≥1.05%
	Tensile strength(10m)	15% Weber fracture probability	2.76	2.76
		50% Weber fracture probability	3.45	3.45
	Fatigue parameters Nd		≥ 22	≥ 22
	Coating peak stripping force N		1.0~8.9	1.0~8.9
	Coating average stripping force N		1.0~5.0	1.0~5.0

Environmental performance	Additional damping temperature cycle (-60°C ~ +85°C) dB/km@1310nm, 1550nm, 1625 nm	≤ 0.05	≤ 0.05
	Wet and heat aging (+85±2°C, 85%RH, 30 days) dB/km@1310nm, 1550nm, 1625 nm	≤ 0.05	≤ 0.05
	High temperature aging(85±2°C, 30 days) dB/km @1310nm, 1550 nm, 1625 nm	≤ 0.05	≤ 0.05
	Additional attenuation of flooding (23±2°C, 30 days) dB/km @1310nm, 1550nm, 1625 nm	≤ 0.05	≤ 0.05

5、 Package

Item	Index
Length and packaging	1000m/plywood reel
Plywood reel size	300*150*300mm
Net weight	19.5kg/km
Gross weight	20.5kg/box
Packaging details	See the picture below

