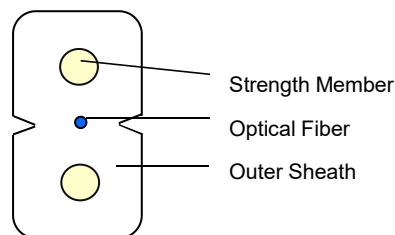


Bow Type Drop Cable

GJXFH -1B1.3

Cable Description

The optical fiber unit is positioned in the centre. Two FRP are placed at the two sides. Then, the cable is completed with a white or color LSZH sheath.



Application

- Internal FTTH applications horizontal and riser, especially suitable for the last leg in FTTH systems.

Characteristics

- Special low-bend-sensitivity fiber provides high bandwidth and excellent communication transmission property
- Two FRP strength members ensure good performance of crush resistance to protect the fiber
- Simple structure, light weight and high practicability
- Novel flute design, easily strip and splice, simplify the installation and maintenance

Optical Fiber In Cable(ITU-G.652D)

Optical properties of the SM fiber are achieved through a germanium doped silica based core with a pure silica cladding which meets ITU-T G652D, UV curable acrylate protective coating is applied over the glass cladding to provide the necessary maximum fiber lifetime.

Geometrical and optical characteristics of fiber in cable as the following table:

Category	Description	Specification
Geometrical Characteristics	Cladding diameter	$125.0 \pm 1.0 \mu\text{m}$
	Cladding non-circularity	$\leq 1.0 \%$
	Core concentricity error	$\leq 0.6 \mu\text{m}$

Optical Characteristics	Coating diameter	235~255 μm
	Coating/cladding concentricity error	$\leq 12.0 \mu\text{m}$
	Mode field diameter at 1310 nm	8.7 ~ 9.5 μm
	Attenuation at 1310 nm	$\leq 0.34 \text{ dB/km}$
	Attenuation at 1383 nm	$\leq 0.34 \text{ dB/km}$
	Attenuation at 1550 nm	$\leq 0.20 \text{ dB/km}$
	Point discontinuity at 1310nm and 1550nm	$\leq 0.05\text{dB}$
	Zero dispersion wavelength	1300 ~ 1324 nm
	Zero dispersion slope	$\leq 0.092 \text{ ps}/(\text{nm}^2 \cdot \text{km})$
	Cable cut-off wavelength (λ_{cc})	$\leq 1260 \text{ nm}$
	Polarization mode dispersion individual fiber	$\leq 0.2 \text{ ps}/\sqrt{\text{km}}$
	Polarization mode dispersion design link value (M=20, Q=0.01%)	$\leq 0.1 \text{ ps}/\sqrt{\text{km}}$
	Macro-bend loss (100 turns, 30mm radius)	1550&1625nm: $\leq 0.05 \text{ dB}$
Mechanical Specification	Proof stress level	$\geq 100\text{kpsi}$ (0.69 GPa)
	Coating strip force (peak value)	1.3~8.9N
	Dynamic Fatigue Parameter (nd)	≥ 20
	Fiber curl (Radius)	$\geq 2 \text{ m}$

Cable Dimensions and Constructions

Items		Descriptions
Optical Fiber	Fiber count	1
	Color	Blue
Strength Member	Material	FRP
	Diameter	0.5mm*2
Outer Sheath	Material	LSZH
	Thickness	$\geq 0.4\text{mm}$
	Color	White
Cable Diameter		3.0(± 0.1)*2.0(± 0.1)mm
Cable Weight	Net Weight	Approx. 10kg/km

Mechanical and Environmental Characteristics

Items	Test Method	Descriptions	
Tensile performance	IEC 60794-1-2 Method E1	short-term	80N
		long-term	40N
Crush Resistance	IEC 60794-1-2 Method E3	short-term	1000N/10cm

		long-term	500N/10cm
Impact Resistance	IEC 60794-1-2 Method E4	No obvious change after test	
Repeat Bending	IEC 60794-1-2 Method E6		
Torsion	IEC 60794-1-2 Method E7		
Cable Bend	IEC 60794-1-2 Method E11		
Temperature Range	IEC 60794-1-2 Method F1	-10℃~+60℃	
Bending Radius	Static	15mm	
	Dynamic	30mm	

Packing

Cables are coiled on wooden or plastic drum. During transportation, right tools should be used to avoid damaging the package and to handle with ease.

Cables should be protected from moisture; kept away from high temperature and fire sparks; protected from over bending and crushing; protected from mechanical stress and damage.

Marking

Unless otherwise specified, the cable sheath marking shall be as follows:

- Color: Black
- Contents: Cable manufacturer or owner, the year of manufacture, the type of cable, length marking
- Interval: 1m

Delivery Length

Standard delivery length is 1km/drum or 2km/drum. Other length available on request.