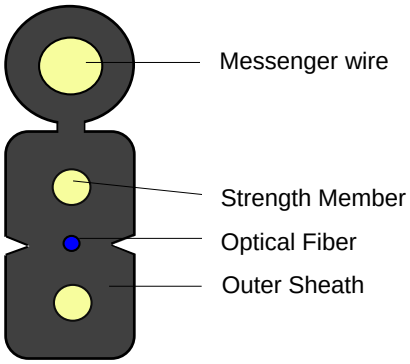
Self-supporting Bow Type Drop Cable

GJYXFCH -1/2B1.3

Cable Description

The optical fiber unit is positioned in the centre. Two FRP are placed at the two sides. A FRP as the additional strength member is also applied. Then, the cable is completed with a black or color low friction 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
- FRP as the additional strength member ensures good performance of tensile strength
- 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 Fibres supplied in this specification meet the requirements of ITU-T G.652.D

Parameter	Specification
MFD (1310nm)	8.7~9.5 um
Cladding diameter	125±1.0um
Fiber diameter	235~255um, with UV coating, and colored to : 250±15um

Core/cladding concentricity error	≤ 0.6um
Coating/cladding concentricity error	≤ 12.0um
Cladding non circularity	≤ 1.0%
Cut off wavelength	λcc ≤1260nm
Attenuation coefficient	1310nm: 0.35dB/km max after cabling 1550nm: 0.21dB/km max after cabling
Bending-loss performance of optical fiber @1310nm&1550nm	≤0.05dB (100 turns around a mandrel of 50mm diameter)
Polarization mode dispersion maximum individual fibre	≤0.2ps/√km
Polarization mode dispersion link value	≤0.1ps/√km
Zero-dispersion wavelength	1300~1324nm
Zero-dispersion slope	≤0.092ps/nm^2·km

Cable Dimensions and Constructions

Items		Descriptions
Fiber Count	Fiber count	1/2
	Color	Blue
Strength Member	Material	FRP
	Diameter	0.5 mm
Messenger wire	Material	KFRP
	Diameter	1.0 mm
Outer Sheath	Material	LSZH
	Thickness	≥0.4 mm
	Color	Black
Cable Diameter		5.2(±0.1)*2.0(±0.1)mm
Cable Weight	Net Weight	Approx. 14.5kg/km

Mechanical and Environmental Characteristics

Items	Test Method	Descriptions	
Tensile performance	IEC 60794-1-2 Method E1	short-term	400N
		long-term	200N
Crush Resistance	IEC 60794-1-2 Method E3	short-term	1000N/10cm
		long-term	800N/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	-30℃~+70℃	

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

Delivery Length

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