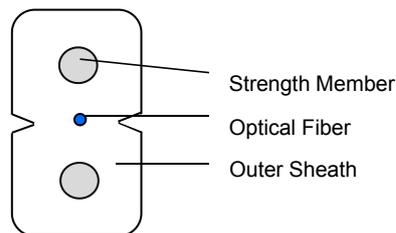


Bow Type Drop Cable

GJXH -1B6a2

Cable Description

The optical fiber unit is positioned in the centre. Two Steel wire 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 parallel Steel wire 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.657A2)

Optical properties of the SM fiber are achieved through a germanium doped silica based core with a pure silica cladding which meets ITU-T G657A2, UV curable acrylate protective coating is applied over the glass cladding to provide the necessary maximum fiber lifetime.

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

Category	Items	Unit	Description	
			Before cabled	After cabled
Optical Characteristics	Attenuation at 1310 nm	dB/km	≤ 0.35	≤0.40
	Attenuation at 1550 nm	dB/km	≤ 0.21	≤0.25
	Zero dispersion wavelength	nm	1300~1324	
	Zero dispersion slope	ps/(nm ² ·km)	≤ 0.092	
	Cable cut-off wavelength λ_{cc}	nm	≤ 1260	

	Mode field diameter (MFD) at 1310 nm	μm	8.4~9.2
	Mode field diameter (MFD) at 1550 nm	μm	9.3~10.3
	Group Index of Refraction (Typical) at 1310 nm	/	1.466
	Group Index of Refraction (Typical) at 1550 nm	/	1.467
	Macro-bend loss(1 turn, 7.5mm radius) at 1550nm	dB	≤ 0.05
	Macro-bend loss(1 turn, 10mm radius) at 1550nm	dB	≤ 0.10
	Macro-bend loss(10turns, 15mm radius) at 1550nm	dB	≤ 0.03
Geometrical Characteristics	Cladding diameter	μm	125 ± 0.7
	Cladding non-circularity	%	≤ 0.7
	Coating diameter	μm	235~255
	Coating/cladding concentricity error	μm	≤ 12.0
	Coating non-circularity	%	≤ 6.0
	Core/cladding concentricity error	μm	≤ 0.5

Cable Dimensions and Constructions

Items		Descriptions
Optical Fiber	Fiber count	1
	Color	Blue
Strength Member	Material	Steel wire
	Diameter	0.45mm
Outer Sheath	Material	LSZH
	Color	White
Cable Diameter		3.0(±0.2)*2.0(±0.2)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	200N
		long-term	100N
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		
Temperature Range	IEC 60794-1-2 Method F1	-20℃~+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.