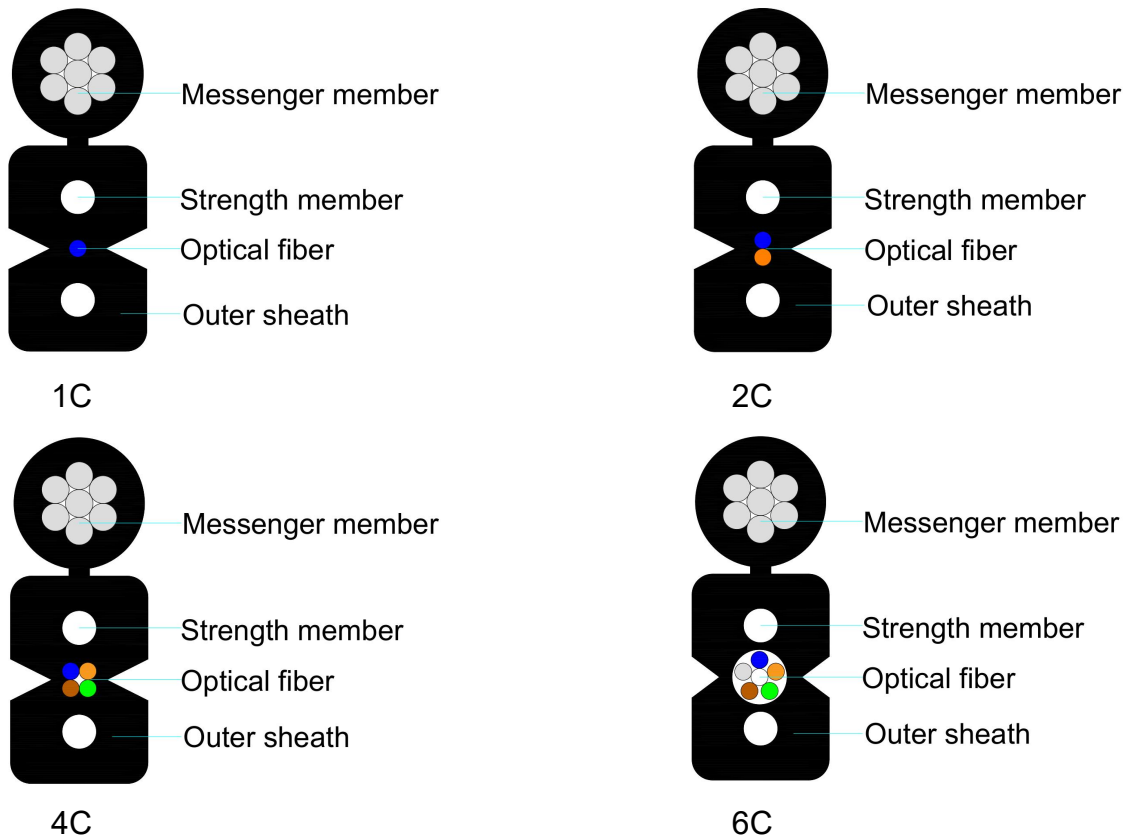


Indoor/Outdoor FTTH Fiber Optical Drop Cable

GJYXFCH-1/2/4/6B6A1

一、Cable section:



二、Cable Dimensions and Constructions:

Items		Descriptions			
Optical fiber	Count	1	2	4	6
	Category	G657A1			
	Color	Blue、Orange、Green、Brown、Gray、White			
Messenger member	Material	Stranded galvanized steel wire			
	Diameter	1.2(7*0.4)mm			
Strength member	Material	FRP			
	Diameter	2*0.5mm			
Outer sheath	Material	LSZH			
	Color	Black			
Overall Cable sizes		(5.0±0.15)*(2.0±0.1)mm			
Sizes without self-supporting		(3.0±0.1)*(2.0±0.1)mm			
Net Weight		Approx. 19.0kg/km			

三、Optical Fiber Characteristics:

Optical properties of the SM fiber are achieved through a germanium doped silica based core with a pure silica cladding which meets ITU-T G657, 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
			After cabled
Optical Characteristics	Attenuation at 1310 nm	dB/km	≤ 0.35
	Attenuation at 1550 nm	dB/km	≤ 0.21
	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	8.6~9.4
	Mode field diameter (MFD) at 1550 nm	μm	9.5~10.5
	Macro-bend loss(10 turns, 15mm radius) at 1550nm	dB	≤ 0.25
	Macro-bend loss(1turn, 10mm radius) at 1550nm	dB	≤ 0.75
	Screening tension	N	≥ 9
	Dynamic fatigue parameters	/	≥ 20
	Coating peeling force(Typical average)	N	1.5
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

四、Mechanical and Environmental Characteristics:

Items	Descriptions	
	Short-term	Long-term
Tensile performance	600N	300N
Crush resistance	2200N/100mm	1000N/100mm
Min bending radius(“H” is the height of the cable)	Static: 10H	
	Dynamic: 20H	
Installation temperature	-20℃～+60℃	
Operation temperature	-40℃～+70℃	
The mechanical properties of other optical fibers and optical cables shall meet the international standards of IEC60793 or IEC60794.		