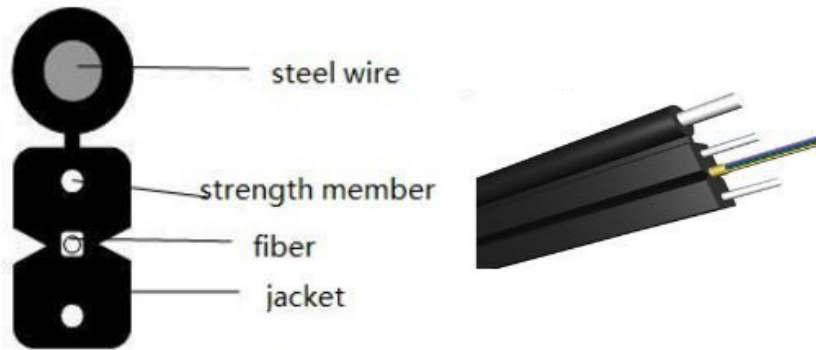


FTTH Butterfly Optic Cable (GJYXFCH)

1. CABLE CONSTRUCTION



1.2 Structure Specification

Cable Type	GJYXFCH		
Fiber count	1	2	4
The Color Code of The fibers	Blue	Blue,Orange	Blue,Orange,Green, Brown
Strength Number	K-FRP		
Messenger wire	1.0MM Steel wire		
Jacket Material	LSZH		
OD of cable(mm)	2.0×5.2±0.2		
Net weight (kg/km)	18		
Max.Tensile Loading (N)	600		

2. Performance Parameters Of the Optical Fiber

ITEMS	UNITS	SPECIFICATION	
Fiber type		G652D	G657A
Attenuation	dB/km	1310nm ≤ 0.4 1550nm ≤ 0.3	
Chromatic Dispersion	ps/nm.km	1310nm ≤ 3.6 1550nm ≤ 18 1625nm ≤ 22	
Zero Dispersion Slope	ps/nm ² .km	≤ 0.092	
Zero Dispersion Wavelength	nm	1300 ~ 1324	
Cut-off Wavelength (lcc)	nm	≤ 1260	
Attenuation vs. Bending (60mm x100turns)	dB	(30mm radius, 100ring) ≤ 0.1 @ 1625nm	(10mm radius, 1ring) ≤ 1.5 @ 1625nm
Mode Field Diameter	mm	9.2 ± 0.4 at 1310nm	9.2 ± 0.4 at 1310nm
Core-Clad Concentricity	mm	≤ 0.5	≤ 0.5
Cladding Diameter	mm	125±1	125±1
Cladding Non-circularity	%	≤ 0.8	≤ 0.8
Coating Diameter	mm	245±5	245±5
Proof Test	Gpa	≥ 0.69	≥ 0.69

4. MECHANICAL AND ENVIRONMENTAL PERFORMANCE OF THE CABLE

NO	ITEMS	TEST METHOD	ACCEPTANCE CRITERIA
1	Tensile Loading Test	#Test method:IEC 60794-1-E1 - Long-tensile load: 0.5 times the short term pulling force - Short-tensile load: reference to clause 2.1 - Cable length:≥50m	Attenuation increment@1550nm:≤0.1dB No jacket cracking and fiber breakage
2	Crush Resistance Test	#Test method:IEC 60794-1-E3 - Long load: 500 N/100mm - Short load: 1000 N/100mm Load time: 1 minutes	Attenuation increment@1550nm:≤0.4dB No jacket cracking and fiber breakage
3	Impact Resistance Test	#Test method:IEC 60794-1-E4 Impact height: 1m - Impact weigh:100 g - Impact point: ≥3 - Impact frequency: ≥1/point	Attenuation increment@1550nm:≤0.4dB No jacket cracking and fiber breakage
4	Repeated Bending	#Test method:IEC 60794-1-E6 - Mandrel diameter: 30H - Subject weight: 2kg - Bending frequency: 300times - Bending speed: 2s/time	Attenuation increment@1550nm:≤0.4dB No jacket cracking and fiber breakage
5	Torsion Test	#Test method:IEC 60794-1-E7 - Length: 1m - Subject weight:2kg - Angle: ±180 degree - Frequency: ≥20/point	Attenuation increment@1550nm:≤0.4dB No jacket cracking and fiber breakage
6	Temperature Cycling Test	#Test method:IEC 60794-1-F1 - Temperature steps: +20°C - 10°C + 60°C +20°C -Testing Time: 8 hours/step - Cycle index: 2	Attenuation increment@1550nm:≤0.3dB No jacket cracking and fiber breakage
7	temperature	Operating :-10°C~+60°C Store/Transport: -10°C~+60°C Installation:-10°C~+60°C	