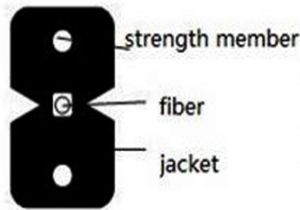


FTTH Butterfly Optic Cable

(2X3mm drop cable-GJXH)

1. CABLE CONSTRUCTION



Cable Type	GJXH
Fiber count	1-2
The Color Code of The fibers	Blue,Orange
Strength Number	Steel wire
Messenger wire	—
Jacket Material	LSZH (white)
OD of cable(mm)	2.0×3.0±0.1
Net weight (kg/km)	10
Max.Tensile Loading (N)	220

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 (λ _{cc})	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

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3. Mechanical and Environmental Performance of the Cable

	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: 1000 N/100mm - Short load: 2200 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: +20C -10C+60C+20C - 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	