



1、Description

FTTH self-supporting butterfly drop cable (GJYXFCH), The optical fiber unit is positioned in the centre. Two parallel Fiber Reinforced Plastics (FRP) are placed at the two sides. A steel wire as the additional strength member is also applied. Then the cable is completed with a black or color LSZH sheath.

2、Features

- Special low-bend-sensitivity fiber provides high bandwidth and excellent communication transmission property
- Two parallel FRP strength members ensure good performance of crush resistance to protect the fiber
- Single steel wire or messengers 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
- Low smoke, zero halogen and flame retardant sheath

3、Specification

Fiber Parameters

No.	Items		Unit	Specification		
				G.652D	G655	G657
1	Mode Field Diameter	1310nm	μm	9.2±0.4	9.0±0.4	9.8±0.4
		1550nm	μm	10.4±0.8	10.1±0.5	9.8±0.5
2	Cladding Diameter		μm	125.0±0.1	124.8±0.1	124.8±0.1
3	Cladding Non-Circularity		%	≤1.0	≤0.7	≤0.7

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4	Core-Cladding Concentricity Error	μm	≤ 0.6	≤ 0.5	≤ 0.5
5	Coating Diameter	μm	242 ± 7	242 ± 7	242 ± 7
6	Coating Non-Circularity	%	≤ 6.0	≤ 6.0	≤ 6.0
7	Cladding-Coating Concentricity Error	μm	≤ 12.0	≤ 12.0	≤ 12.0
8	Cable Cutoff Wavelength	nm	$\lambda_{cc} \leq 1260$
9	Attenuation (max.)	1310nm	dB/km	≤ 0.36	≤ 3.5
		1550nm	dB/km	≤ 0.23	≤ 0.21

Cable Parameters

Items		Description
Number of fiber		1-4 cores(Blue,Orange,Green,Brown)
Fiber type		G652D,G655,G657
Strength member	material	Galvanized steel wire/FRP/Kevlar+FRP
	diameter	2*(0.5~0.8)mm
Self support Messenger wire	material	Galvanized steel wires
	diameter	1.0mm
Outer sheath	material	PE,LSZH, PVC
	diameter	$1.8 \pm 0.2\text{mm}$
Cable size (Height * width)		$2.0(\pm 0.1)\text{ mm} \times 5.2(\pm 0.2)\text{mm}$
Cable sheath thickness		Max. 0.8mm/Min. 0.4mm
Messenger sheath thickness		0.5~0.7mm
Cable weight		22KG \pm 1KG

Mechanical and Environmental Characteristics

Items	Unite	Specifications
Tension (Long Term)	N	40
Tension (Short Term)	N	80
Crush (Long Term)	N/10cm	300
Crush (Short Term)	N/10cm	1000
Min. Bend Radius (Dynamic)	mm	20D
Min. Bend Radius (Static)	mm	10D

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Installation Temperature	°C	-20 ~ +60
Operating Temperature	°C	-40 ~ +70
Storage Temperature	°C	-40 ~ +70

4、 Application

- Adopted to outdoor level and vertical distribution
- Suitable for connect with communication equipment
- Long distance and local area network communication

