

## FTTH Outdoor Cable – 1C-4C

### Cable construction



### Cable specifications

Model		GJYXFCH
Fiber Count		1 - 4
OD (mm)		$(2.0 \pm 0.2) \times (5.0 \pm 0.3)$
Nominal weight (kg/km)		22 ± 2
Max. tensile strength (N)	Short-term	600
	Long-term	300
Max. crush resistance (N/100mm <sup>2</sup> )	Short-term	2200
	Long-term	1000
Min. bending radius (mm)	Short-term	20D
	Long-term	10D
Sheath material		LSZH, other material available on request
Color		Black, other color available on request
Strength members		FRP & Steel wire
Temperature range	Storage or transportation	-20~70°C
	Operation	-20~70°C

### Applications

- Linking the optical trunk networks to premises aerially

### Features

- Novel groove design, easily stripped and spliced, simplified installation and maintenance, higher tensile strength

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- LSZH and flame retardant jacket, environment-friendly

### **Cable sheath marking**

Printing at each 1M interval on the cable sheath

The standard printing contents are as below, alternative contents available on request

- Meter mark
- Cable model
- Fiber count
- Company/Brand name
- Manufacture month and year

### **Package**

- Packed with wooden reel
- Option: Fumigated raw wood reel available at extra cost USD50 per reel

### **Delivery length**

- 2KM/reel, other length available on request

### **Labelling of reel**

Qualification certificate glued on side of reel with the following content

Alternative labelling content available on request

- Product specs (name)
- Order No.
- Part No.
- Inspection No.
- Length
- Inspection result
- Inspection date
- Net weight
- Gross weight
- Gross weight Volume
- Volume

### **Optical fiber technical parameters**

**G657A1**

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Item	Unit	Requirement	
<b>Geometrical characteristics</b>			
Fiber		G657A1	
Mode field diameter(1310nm wavelength)	$\mu\text{m}$	8.4-9.6	
Cladding diameter	$\mu\text{m}$	125.0 $\pm$ 0.7	
Core concentricity error	$\mu\text{m}$	$\leq$ 0.5	
Cladding non-circularity	%	$\leq$ 1	
Coating diameter	$\mu\text{m}$	245 $\pm$ 10	
Coating-cladding concentricity error	$\mu\text{m}$	$\leq$ 12.5	
<b>Transmission characteristics</b>			
Fiber cut-off wavelength	nm	$\leq$ 1260	
Attenuation	Wavelength 1310nm~1625nm	dB/km	$\leq$ 0.4
	wavelength 1550nm	dB/km	$\leq$ 0.3
Macro-bending Loss radius:20mm,1 circle	wavelength 1550nm	dB	$\leq$ <b>0.75</b>
	wavelength 1625nm	dB	$\leq$ <b>1.5</b>
Zero-dispersion slope	$\text{ps}/(\text{nm}^2 \cdot \text{km})$	$\leq$ 0.092	
Polarization mode dispersion	$\text{Ps}/\text{km}^{1/2}$	$\leq$ 0.2	
<b>Mechanism characteristics</b>			
Proof test value	GPa	0.69	
Dynamic fatigue parameter	/	$\geq$ 20	
Other parameter meet standard		ITU-T G.657	