



【 Cable structure 】



## Description :

**Fiber Optic FTTH Drop Cable** It is suitable for connecting with communication equipment and used as access building cable in the premises distribution system. The optical fiber unit is positioned in the center. Two parallel Fiber Reinforced(FRP) are placed at the two sides. Then, the cable is completed with a black or white color LSZH sheath.

## Feature:

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.

Simple structure, light weight, and high practicability

Novel flute design, easily strips and splice, simplify the installation and maintenance.

LSZH, Low smoke, zero halogens, and flame retardant sheath.

**Fiber Parameters:**

No.	Item		Unit	Specification
				G.657A2
1	Mode Field Diameter	1310nm	$\mu\text{m}$	$8.6\pm 0.4$
		1550nm	$\mu\text{m}$	$9.6\pm 0.5$
2	Cladding Diameter		$\mu\text{m}$	$125.0\pm 0.7$
3	Cladding Non-Circularity		%	$\leq 0.7$
4	Core-Cladding Concentricity Error		$\mu\text{m}$	$\leq 0.5$
5	Coating Diameter		$\mu\text{m}$	$245\pm 5$
6	Coating Non-Circularity		%	$\leq 6.0$
7	Cladding-Coating Concentricity Error		$\mu\text{m}$	$\leq 12.0$
8	Cable Cutoff Wavelength		nm	$\lambda_{cc}\leq 1260$
9	Attenuation(max.)	1310nm	dB/km	$\leq 0.35$
		1550nm	dB/km	$\leq 0.20$
10	Macro-Bending Loss	1turn $\times$ 7.5mm radius @1550nm	dB	$\leq 0.4$
		1turn $\times$ 7.5mm radius @1625nm	dB	$\leq 0.8$

**Cable Parameters:**

Item		Specification
Fiber Count		1 core, 2 core, 4 core
Colored Coating Fiber	Dimension	$250\pm 15\mu\text{m}$
	Color	Blue/Orange/Green/Brown
Strength Member	Dimension	0.45mm
	Material	Steel Wire

Jacket	Dimension	3.0±0.1mm×2.0±0.1mm
	Material	LSZH
	Color	Black

### Mechanical and Environmental Characteristics:

Item	Unit	Specification
Tension (Long Term)	N	100
Tension (Short Term)	N	200
Crush (Long Term)	N/10cm	300
Crush (Short Term)	N/10cm	1000
Min. Bend Radius (Dynamic)	mm	30D
Min. Bend Radius (Static)	mm	15D
Installation Temperature	°C	-20~+60
Operating Temperature	°C	-40~+70
Storage Temperature	°C	-40~+70

### Packing Information:

Printings the below information on the optical fiber cable

1. Meter marks
2. Type of cable and fiber count
3. Name of Manufacturer
4. Year of manufacture

5. Wooden reel, Standard length is 1KM, other lengths subject to negotiation.
6. Type of cable, fiber count, Length
7. Gross weight KGS
8. Reel no.
9. Diameter, weight, the minimum bending radius of optical fiber cable.