



**Description :**

**【 Cable structure 】**

**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 FRP Fiber Reinforced member 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.

**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.

Single steel wire as the additional strength member ensure good performance of tensile strength.

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	μm	8.6±0.4
		1550nm	μm	9.6±0.5
2	Cladding Diameter		μm	125.0±0.7
3	Cladding Non-Circularity		%	≤0.7
4	Core-Cladding Concentricity Error		μm	≤0.5
5	Coating Diameter		μm	245±5
6	Coating Non-Circularity		%	≤6.0
7	Cladding-Coating Concentricity Error		μm	≤12.0
8	Cable Cutoff Wavelength		nm	$\lambda_{cc} \leq 1260$
9	Attenuation(max.)	1310nm	dB/km	≤0.35
		1550nm	dB/km	≤0.20
10	Macro-Bending Loss	1turn×7.5mm radius @1550nm	dB	≤0.4
		1turn×7.5mm radius @1625nm	dB	≤0.8

**Cable Parameters:**

Item		Specification
Fiber Count		1 core, 2 core, 4 core
Colored Coating Fiber	Dimension	250±15μm
	Color	Blue/Orange/Green/Brown
Strength Member	Dimension	0.45mm
	Material	Steel Wire

Jacket	Dimension	5.0±0.2mm×2.0±0.1mm
	Material	LSZH
	Color	Black

**Mechanical and Environmental Characteristics:**

Item	Unit	Specification
Tension (Long Term)	N	500
Tension (Short Term)	N	1000
Crush (Long Term)	N/10cm	1000
Crush (Short Term)	N/10cm	2200
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.