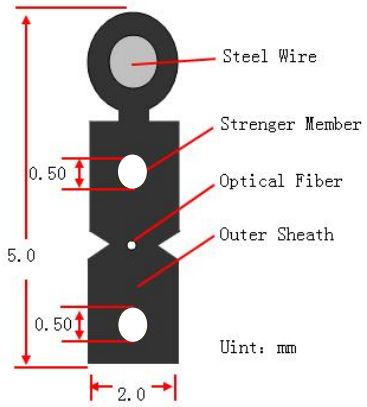
FTTH Outdoor Indoor Drop Cable（GJYXFCH）

Cable Design



Technical data

No. of cable		1
Fiber Model		G657A2
Strength Member	Material	G-FRP
	Diameter（±0.03）mm	0.5
	NO.	2
Support Member	Material	Phosphating Steel Wire
	Diameter（±0.03）mm	1.0
	NO.	1
Outer Sheath	Material	LSZH
	Color	Black
Cable Diameter（±0.2）mm		2.0×5.0
Cable Wetght（±2.0）kg/km		18.0

Fibre Color

No.	1	2
Color	Blue	Orange

The properties of optical fiber (ITU-T Rec. G.657A1)

No.	Items		Unit	Specification
				G.657A1
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±10
6	Coating Non-Circularity		%	≤6.0
7	Cladding-Coating Concentricity Error		μm	<12.0

8	Cable Cutoff Wavelength		nm	λ_{cc}≤1260
9	Attenuation(max.)	1310nm	dB/km	≤0.35
		1550nm		≤0.24
10	Macro-Bending Loss	1turn×7.5mm radius @1550nm	dB	≤0.4
		1turn×7.5mm radius @1625nm	dB	≤0.8

The properties of optical fiber (ITU-T Rec. G.657A2)

No.	Items		Unit	Specification
				G.657A2
1	Mode Field Diameter	1310nm	μm	8.8±0.4
		1550nm	μm	9.8±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±10
6	Coating Non-Circularity		%	≤6.0
7	Cladding-Coating Concentricity Error		μm	<12.0
8	Cable Cutoff Wavelength		nm	λ_{cc}≤1260
9	Attenuation(max.)	1310nm	dB/km	≤0.35
		1550nm		≤0.22
10	Macro-Bending Loss	1turn×7.5mm radius @1550nm	dB	≤0.4
		1turn×7.5mm radius @1625nm	dB	≤0.8

Main mechanical & environmental performance test

DESCRIPTION	VALUES	REFERENCES
Tensile Strength	Load 600N for 10 minutes .Variation of attenuation≤0.1dB .Fibers strain≤0.33%	IEC 60794-1-2-EIA IEC 60794-1-2-EIB IEC 60794-2-50
Crush Tset	Load 1000N for 3 minutes .Variation of attenuation≤0.1dB	IEC 60794-1-2-E3 IEC 60794-2-50
Inpact Test	Energy=1 J on surface of 12.5mm radius,3 times; .Variation of attenuation≤0.1dB	IEC 60794-1-2-E4 IEC 60794-2-50
Bending Test	Load 100N for 5 minutes Radius of curvature=10×O.D .Variation of attenuation≤0.1dB	IEC 60794-1-2-E18A Procedure no.2

Sheath marking

The optical fiber drop cable shall have sequentially numbered length marking at intervals of approximately 1 meter. The starting number of ordering length for any coil shall begin whit zero meter. The accuracy of the measurement of lenth marking shall be held within the limits of ±1%.

a) Manufacturer's name
b) Type of wire
c) Year and month of manufacture
d) Length marking each meter along the wire