OpticDigital

STRUCTURED CABLING SOLUTIONS

FIBER OPTIC COMMUNICATION

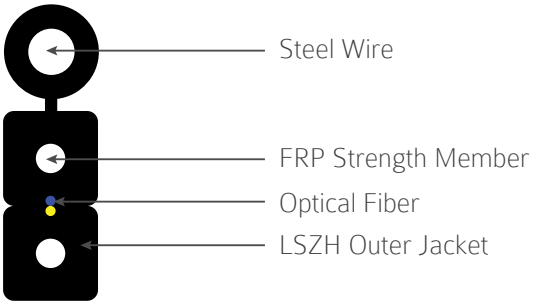
Fiber Optic Cable

2Core Outdoor FTTH Drop Cable

FTTH2Core-SM-Outdoor

2Core Singlemode Outdoor FTTH Drop Cable

Cross Section



Description

2Core Singlemode Outdoor FTTH Drop Cable

FTTH outdoor drop cable is constructed with two single mode fiber. The cable is protected by a dielectric strength member made of fiberglass reinforced plastic (FRP), steel wire and a LSZH outer jacket.

Designed for outdoor installation the cable is well suited for connections between the dome closure and small dwelling unit / warehouse and independent villas.

- Robust and lightweight
- Colour coded fibers for easy identification
- LSZH jacket for internal use
- Steel wire support

Physical Characteristics (Overall)

Optical Fiber	**2 Core**
Color of Buffer	1:Blue / 2:Yellow
Core Diameter	250 ± 15μm
Mode	Single Mode
Strength Member	**KFRP / FRP**
Diameter	Ø 0.6 / 0.52 ± 0.05mm
Strength Member 2	**Steel Wire**
Diameter	Ø 1.2 ± 0.05mm
Sheath	**LSZH**
Nominal Thickness	Minimum 0.4mm
Cable Construction	
Dimension	Max :5.3×2.0 ± 0.2mm
Weight	Approx. 20kg/km

Optical Charateristics

Cladding Diameter	μm	125 ± 0.7
Cladding Non-Circularity	%	< 1.0
Core Concentricity Error	μm	< 0.5
Mode Filed Diameter	μm	1310nm: (8.6 ~ 9.5 ± 0.4)
Cable Cutoff Wavelength	μm	< 1260
Attenuation Coefficients	dB/km	1310nm: (< 0.4) 1510nm: (< 0.3)
Macro Bending Loss	dB	10 turns, 30mm diameter (< 0.25) 1 turn, 20mm diameter (< 0.75)

Sheath Feature of Optical Fiber Cable

Sheath tensile Strength before thermal aging	MPa	> 15
The change rate of sheath tensile strength before and after thermal aging	%	< 10
Sheath break elongation before thermal aging	%	> 170
Sheath break elongation after thermal aging	%	> 150
The change rate of sheath break elongation before and after thermal aging	%	< 20

Machanical Environmental

Temperature Range	-40°C ~ +60°C
Fire Performace	IEC 60332-1, IEC 60754-2, IEC 61034