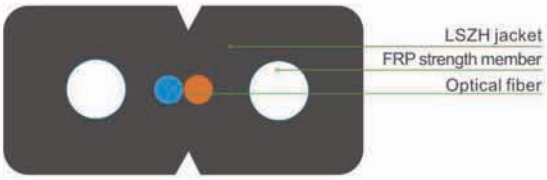
STRUCTURE CABLING
OPTICAL FIBER

FTTH Drop Cable(GJXFH-2)

SW905

Introduction

This flat drop cable, which consists of 1, 2, or 4 color coded optical fibers, offers an ideal solution for the smaller fiber counts that are needed in the final sections of an optical network. Two parallel FRP strength members protect the optical fibers. The cable is completed with a LSOH jacket.



Cable structure and parameter

SN	Item	Unit	Value
1	No. of fibers	count	2
2	sheath material/color		LSZH/ Black
3	Fibers Color		Blue, Orange
4	Strength member		FRP strength member
5	Cable diameter	mm	3*2
6	Cable weight	kg/km	9
7	Short term tension	N	80
8	Short term crush	N/100mm	1000

Note: Mechanical sizes are nominal values.

Characteristic of Optical Cable

Mechanical characteristic and test method		
Tensile strength	conform to IEC 60794-1-2-E1A	
Crush	conform to IEC 60794-1-2-E3	
Impact	conform to IEC 60794-1-2-E4	
Repeated bending	conform to IEC 60794-1-2-E6	
Torsion	conform to IEC 60794-1-2-E7	
Flexing	conform to IEC 60794-1-2-E8	
Cable bend	conform to IEC 60794-1-2-E11	
Water penetration	conform to IEC 60794-1-2-F5B	
Temperature requirement	Operation	-20℃~+60℃
	Installation	-20℃~+60℃
	Storage/transportation	-20℃~+60℃
Temperature cycling test	conform to IEC 794-1-F1	
Bending Radius	Unloaded	30 times of outer diameter
	loaded	60 times of outer diameter

G657 fiber information

- Mode field diameter (1310nm):8.6μm±9.5μm.
- Cladding diameter:125μm±0.7μm.
- Coating diameter:245μm±7μm.
- Cut off wavelength of cabled fiber (λcc):≤1260μm.
- Attenuation at 1310nm:≤0.35dB/km.
- Attenuation at 1550nm:≤0.21dB/km.
- Bending loss at 1550nm (100 turns, 30mm radius):≤0.05dB.
- Dispersion in the range 1288 to 1339nm:≤3.5ps/(nm·km).
- Dispersion at 1550nm:≤18ps/(nm·km).
- Dispersion slope at zero dispersion wavelength:≤0.092ps /(nm2·km).

Order Information

Item	Specification	Description
D171	2-12 cores	Single Mode
D172	2-12 cores	Multimode