

Drop cable with Figure.8 Fiber to the home aerial drop cable(self support FTTH)



FTTH Cable directly connected to their homes, their bandwidth, wavelength and transmission technology type are not restricted. The optical fiber unit is positioned in the centre. Two parallel strength members 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 HDPE sheath.

Product Model: FTTH

Technical Parameters

Cable construction details :

Number of fiber	1~4core	
strength member	Material	steel wire/FRP/KFRP
	diameter	2*0.45/0.5/0.5mm
Self support Messenger wire	Material	steel wire
	diameter	1.0mm/7*0.4mm
Outer sheath	material	LSZH/PVC
	diameter	1.8±0.2mm
Cable size (Height * width)	2.0(±0.1) mm × 5.0(±0.2)mm	

Cable sheath thickness	Max. 0.8mm/Min. 0.4mm	
Messenger sheath thickness	0.5~0.7mm	
Cable weight	1~2core	19/20KG/KM
	4 core	20/21KG/KM

Cable Mechanical characteristic

Items		Description
Installation Temperature range (°C)		-20+60
Operation and transport temperature (°C)		-40+70
Min Bending Radius(mm)	Long term	15D
Min Bending Radius(mm)	Short term	30D
Min allowable Tensile Strength(N)	Long term	400
Min allowable Tensile Strength(N)	Short term	660
Crush Load (N/100mm)	Long term	1000
Crush Load (N/100mm)	short term	2200

Fiber characteristic

Fiber style	Unit	SM G652D	SM G657A1	SM G657A2
Condition	mm	1310/1550	1310/1490/1550	1310/1490/1550
Attenuation	dB/km	≤0.4/0.26	≤0.36/0.27/0.25	≤0.34/0.25/0.22
Dispersion(1285-1310nm)			≤ 3,5 ps/nm.km	
Dispersion(1550nm)			≤ 18 ps/nm.km	
PMD coefficient			0,2ps/km ^{1/2}	
Cable Cut - off Wavelength- cc			1.260nm	
Radius attenuation bending (With radius: 10mm; round number: 1)	dB		1550nm 0.75dB; 1625nm 1.5dB	
MFD at wavelength 1310nm			8.6 m 0.6 m	
Mode Field Concentricity Error	m		0,5 m	
Cladding diameter	m	125±1.5 m	125±0.7 m	125±0.7 m
Cladding non-circularity	%	≤1.5	≤0.5	≤0.5
Coating diameter	um	242±7 m	242±7 m	242±7 m

Package

1.Packing material: Wooden drum
2.Packing length: standard length of cable shall be 2 km. Other cable length is also available
if required by customer

Cable marking and cable reel marking

The cable sheath shall be marked with white characters according to customer's requirement.

Characteristics

- Good mechanical and environmental characteristic
- Anti-UV characteristics meet the requirements of relevant standards
- The mechanical characteristics meet the requirements of relevant standards
- Soft ,flexible ,easy to lay and splice, and with big capacity data transmission
- Meet various requirements of market and clients

Applications

- Adopted to outdoor level and vertical distribution.
- Suitable for connect with communication equipment.
- Long distance and local area network communication.