

FTTH Drop Cable

Self-Support Flat Drop Fiber Optic Cable

F-FTTX-SDF Series Self-Support FTTH Drop Cable is designed for Fiber-to-the-Home (FTTH) deployments, providing reliable optical connectivity from distribution points directly to end users.

The cable incorporates a central optical fiber unit, dual strength members, and an integrated steel messenger wire, offering excellent tensile strength, UV resistance, and long-term outdoor durability.

// PRODUCT DESCRIPTION

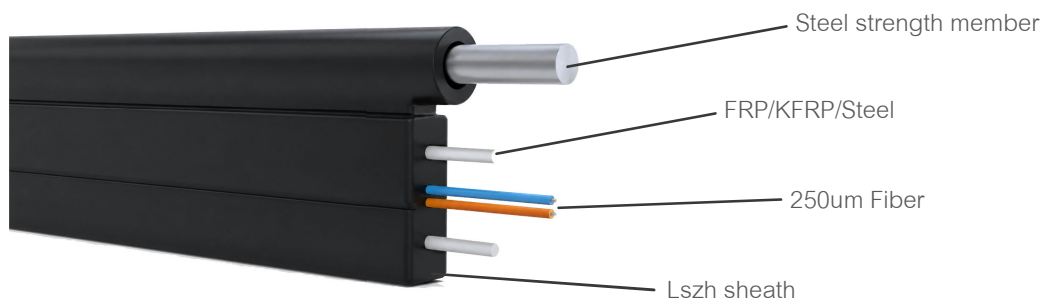
- Self-Support Aerial FTTH Cable
- Single Mode G.657A1 / G.657A2 Fiber
- Flat Drop Cable Structure
- Integrated Steel Messenger Wire
- Dual FRP Strength Members.
- Suitable for Outdoor and Indoor Applications.

// APPLICATION

- **FTTH Access Network** Direct subscriber connection for Fiber-to-the-Home deployment.
- **Last Mile Broadband Network** Suitable for residential and commercial broadband access.
- **CCTV & Security Network** Reliable fiber connectivity for surveillance systems.
- **LAN & Telecommunication Network** Supports high-speed data transmission applications.
- **Fiber & Loose Tube Color Coding** ANSI/TIA-598 compliant identification.

// STANDARD

Compliant with ANSI/TIA-568-C.3, ANSI/TIA/EIA-568-B.3, ISO/IEC 11801:2002, IEC 60793, IEC 60794, EIA/TIA-455, ITU-T G.657.A1/A2, ITU-T G.651, ANSI/ICEA S-87-640 (ICEA 696), ANSI/ICEA S-83-596, Telcordia GR-20-CORE, IEC 60332-1/2/3, IEEE 802.3, IEEE 802.3z, IEEE 802.3ae, UL Listed and RoHS 2002/95/EC requirements.



// CONSTRUCTION CABLE

Number of fiber		1~4core
Cable weight	Material	Galvanized steel wire/FRP/KFRP
	diameter	2 x (0.5~0.8)mm
Messenger sheath thickness	Material	Galvanized steel wire
	diameter	1.0mm
Cable sheath thickness	Material	LSZH
	diameter	1.8±0.2mm
Cable size (Height x width)		2.0 ± 0.1 mm × 5.2 ± 0.2mm
Outer sheath		Max. 0.8mm/Min. 0.4mm
Self support Messenger wire		0.5~0.7mm
strength member	1~2core	18.2 Kg
	4~6core	18.5 Kg
	8~24core	54.0 Kg

// FIBER CHARACTERISTIC

Fiber style	Unit	SM G652	SM G652D	MM 50/125	MM 62.5/125	MM OM3-300
condition	nm	1310/1550	1310/1550	850/1300	850/1300	850/1300
attenuation	dB/km	≤ 0.36/0.23	≤ 0.34/0.22	≤ ≤3.0/1.0	≤3.0/1.0	≤3.0/1.0
Dispersion	1550nm 1625nm	Ps/(nm*km) Ps/(nm*km)	---- ≤22	---- ----	---- ----	Dispersion ----
Bandwidth	850nm 1300nm	MHz·km MHz·km	---- ----	---- ----	≥400 ≥800	≥160 ≥500
Zero dispersion wavelength	nm	1300-1324	≥1302, ≤1322	----	----	≥1295, ≤1320
Zero dispersion slope	nm	≤0.092	≤0.091	----	----	----
PMD Maximum Individual Fiber		≤0.2	≤0.2	----	----	≤0.11
PMD Maximum Individual Fiber	Ps/(nm ² *km)	≤0.12	≤0.08	----	----	----
Fibre cutoff wavelength λ _c	nm	≥1180, ≤1330	≥1180, ≤1330	----	----	----
Cable cutoff wavelength λ _{cc}	nm	≤1260	≤1260	----	----	----
MFD	1310nm 1550nm	um um	9.2+/-0.4 10.4+/-0.8	9.2+/-0.4 10.4+/-0.8	---- ----	---- ----
Numerical Aperture(NA)		----	----	0.200+/-0.015	0.275+/-0.015	0.200+/-0.015
Step(mean of bidirectional measurement)	dB	≤0.05	≤0.05	≤0.10	≤0.10	≤0.10
Irregularities over fiber length and point	dB	≤0.05	≤0.05	≤0.10	≤0.10	≤0.10

DICONTINUITY

Difference backscatter coefficient	dB/km	≤0.05	≤0.03	≤0.08	≤0.10	≤0.08
Attenuation uniformity	dB/km	≤0.01	≤0.01			
Core diameter	um			50+/-1.0	62.5+/-2.5	50+/-1.0
Cladding diameter	um	125.0+/-0.1	125.0+/-0.1	125.0+/-0.1	125.0+/-0.1	125.0+/-0.1
Cladding non-circularity	%	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0
Coating diameter	um	242+/-7	242+/-7	242+/-7	242+/-7	242+/-7
Coating/chaffinch concentricity error	um	≤12.0	≤12.0	≤12.0	≤12.0	≤12.0
Coating non circularity	%	≤6.0	≤6.0	≤6.0	≤6.0	≤6.0
Core/cladding concentricity error	um	≤0.6	≤0.6	≤0.6	≤0.6	≤0.6
Curl(radius)	um	≤4	≤4	---	---	---

// CABLE MECHANICAL CHARACTERISTIC

ITEM	DESCRIPTION	
Installation Temperature range	-40°C+70°C	
Operation and transport temperature	-40°C+70°C	
Min Bending Radius	Installation	20 × Cable Diameter
	Operation	10 × Cable Diameter
Min allowable Tensile Strength(N)	Long term	300 N
	Short term	600 N
Crush Load (N/100mm)	2200 N	

// ORDER INFORMATION

NO. OF CORE	DESCRIPTION
1	FTTH Strand Drop Wire Flat 1 Core
2	FTTH Strand Drop Wire Flat 2 Core
4	FTTH Strand Drop Wire Flat 4 Core



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