

FTTH CABLE PRODUCT

FTTH STAND DROP WIRE ROUND CABLE SM (SDR)



CHARACTERISTIC

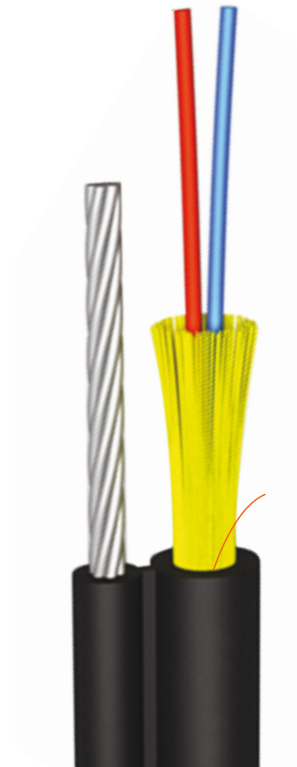
- The structure is 1-4 core fibers.
- Standard steel wire
- Tight buffer
- Optical fiber
- Aramid yarn/E-Glass yarn
- Outer jacket HDPE (LSZH)
- Rip cord
- Water Blocking Tape
- Messenger wire 7 x 0.4 mm (1.2mm.)

PROPERTIES

- Excellent performance
- Low insertion loss and high return loss
- High tensile strength
- Telcorda GR326, IEC, TIA/EIA standard compliant

APPLICATION

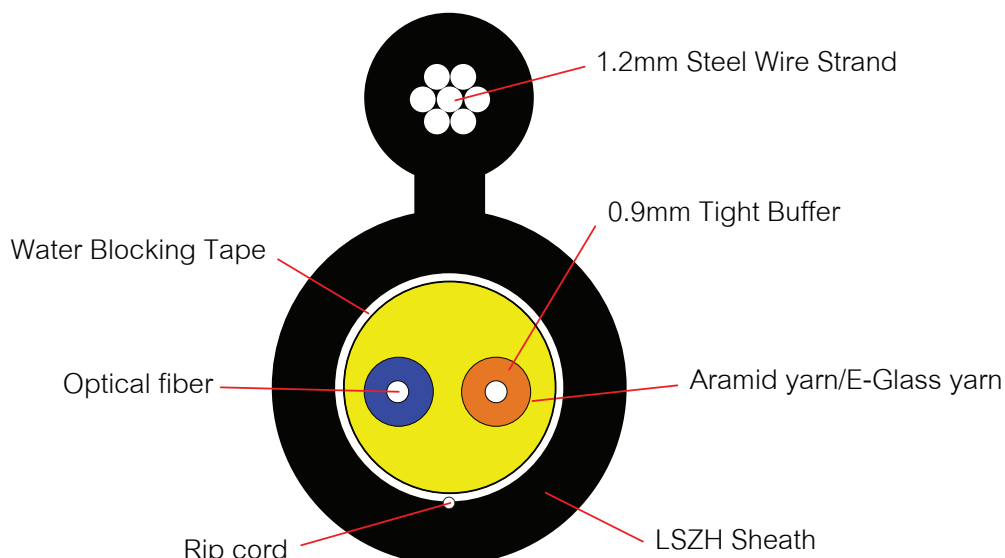
- Communication network
- Optical distribution network
- Lan system
- FTTH
- SC APC/ UPC Connector



F-FTTX -SDR-XX

STANDARD

ANSI/TIA-568-C.3, ANSI/TIA/EIA-568-B.3, ISO/IEC 11801:2002, ANSI/ICEA 696, Telcorda (Bellcore) GR-20-CORE, ITU-T G.657A1/G.657A2 (Singlemode), ITU-T G.651 (Multimode), IEC 60332-1, IEC 60332-2& IEC 60332-3, IEC 60793/60794, IEC60754-1&2 ,IEC61034-2, ANSI/ICEA 596,EIA/TIA-455, UL, RoHS Compliant 2002/95/EC IEEE802.3z, IEEE802.3ae, IEEE802.3(LAN, EthernetFast Ethernet,Gigabit Ethernetand10Gigabit Ethernet40-100 Gbps)



CABLE CONSTRUCTION DETAIL

ITEM	CONSTRUCTION
FIBER COUNT	2
CABLE DIAMETER	3.5*6.5MM
CABLE WEIGHT	26.0KG/KM

FIBER IDENTIFICATION BUFFERE COLOR

1	Blue	2	Orange
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CABLE CONSTRUCTION DETAIL

Items	Description
Number of fiber	2cores
Fiber type	SM/ G657A1/G657A2 Diameter: 250um ±5um
Tight buffer	PVC Diameter: 0.9mm
Strength member	Material kevlar
Outer sheath	Material LSZH Diameter 3.5*6.5mm

GENERAL

THIS SPECIFICATIONS COVERS THE OPTICAL FIBER CABLE FOR LAYING IN INDOOR INSTALLATION. THE OPTICAL FIBER MEETS THE REQUIREMENTS OF ETISALAT SPECIFICATIONS

CABLE MECHANICAL CHARACTERISTIC

Items	Cable Diameter	Weight
1cores	3.5*6.5mm	23kg/km
2cores	3.5*6.5mm	26kg/km
Installation Temperature range	-20 -+80°C	
Operation and transport temperature	-20 -+80°C	
Storage temperature	-20 -+80°C	
Min allowable Tensile strength	Long time	800N
	Short time	1200N
Min allowable Crush load (N/100mm)	Long time	1000N
	Short time	2200N
Min Bending Radius(mm)	operation	15D mm
	installation	30D mm

ENVIRONMENTAL CHARACTERISTICS (1310NM, 1500NM, &1625NM)

Temperature dependence	-60°C to +85°C	≤0.05	[db/Km]
Induced attenuation at			
Temperature-humidity cycling	-10°C to +85°C,98°C RH	≤0.05	[db/Km]
Induced attenuation at			
Watersoak dependence	23°C for 30 days	≤0.05	[db/Km]
Induced attenuation at			
Damp heat dependence	85°C and 85°C RH for 30 days	≤0.05	[db/Km]
Induced attenuation at			
Dry heat aging at	85°C	≤0.05	[db/Km]

CABLE MECHANICAL CHARACTERISTIC

Characteristics	Conditions	Specified Values	Units
Attenuation	1310nm	≤0.35	[dB/Km]
	1383nm	≤0.35	[db/Km]
	1460nm	≤0.25	[db/Km]
	1550nm	≤0.21	[db/Km]
	1625nm	≤0.23	[db/Km]
"Attenuation vs.Wavelength	1285-1330nm	≤0.03	[db/Km]
Max. α difference"	1525-1575nm	≤0.02	[db/Km]
Dispersion coefficient	1285~1340nm	≥-3.4 ≤3.4	ps/(nm×Km)
	1550nm	≤18	ps/(nm×Km)
	1625nm	≤22	ps/(nm×Km)
Zero dispersion wavelength		1300~1324	[nm]
Zero dispersion slope		≤0.092	ps/(nm ² ×Km)
"PMD Maximum Individual Fibre		≤0.2	[ps/√km]
Link Design Value (M=20, Q=0.01%)		≤0.1	[ps/√km]
Typical value "		0.04	[ps/√km]
Cable cutoff wavelength λ		≤1260	[nm]
Mode field diameter (MFD)	1310nm	8.4±9.2	[nm]
	1550nm	9.3±10.3	[nm]
"Effective group index of	1310nm	1.466	
refraction (Neff)"	1550nm	1.167	
Point discontinuities	1310nm	≤0.05	[dB]
	1550nm	≤0.05	[dB]
Cladding diameter		125.8±0.7	[um]
Cladding non-circularity		≤0.7	[%]
Coating diameter		245±5	[um]
Coating-cladding concentricity error		≤12.0	[um]
Coating non-circularity		≤6.0	[%]
Core-cladding concentricity error		≤0.5	[um]
Curl (radius)		≥4	[m]
Delivery length		2.1 to 50.4	[km/reel]

ORDER INFOMATION

PRODUCT	PART NUMBER
FTTX Strand Dorp Wire Round 1 Core	F-FTTX -SDR-01
FTTX Strand Dorp Wire Round 2 Core	F-FTTX -SDR-02
FTTX Strand Dorp Wire Round 4 Core	F-FTTX -SDR-04