

# FTTH CABLE PRODUCT

FTTH STAND DROP WIRE ROUND CABLE SM (SDR)



## CHARACTERISTIC

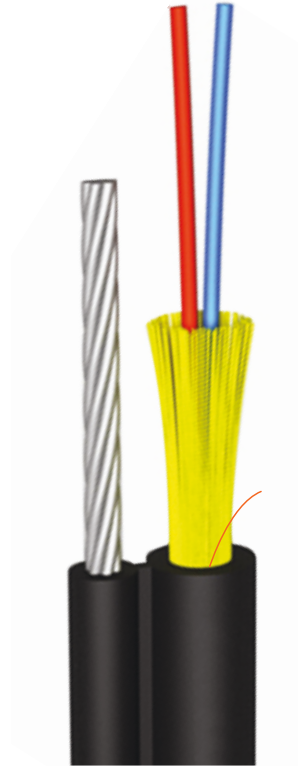
- The structure is 1-4 core fibers.
- Standard steel wire
- Tight buffer
- Optical fiber
- Aramid yarn/E-Glass yarn
- Outer jacket HDPE (LSZH)
- Rip cord
- Water Blocking Tape
- Messenger wire 7 x 0.4 mm (1.2mm.)

## PROPERTIES

- Excellent performance
- Low insertion loss and high return loss
- High tensile strength
- Telcorda GR326, IEC, TIA/EIA standard compliant
- The cable shall be used for aerial or duct installed.

## APPLICATION

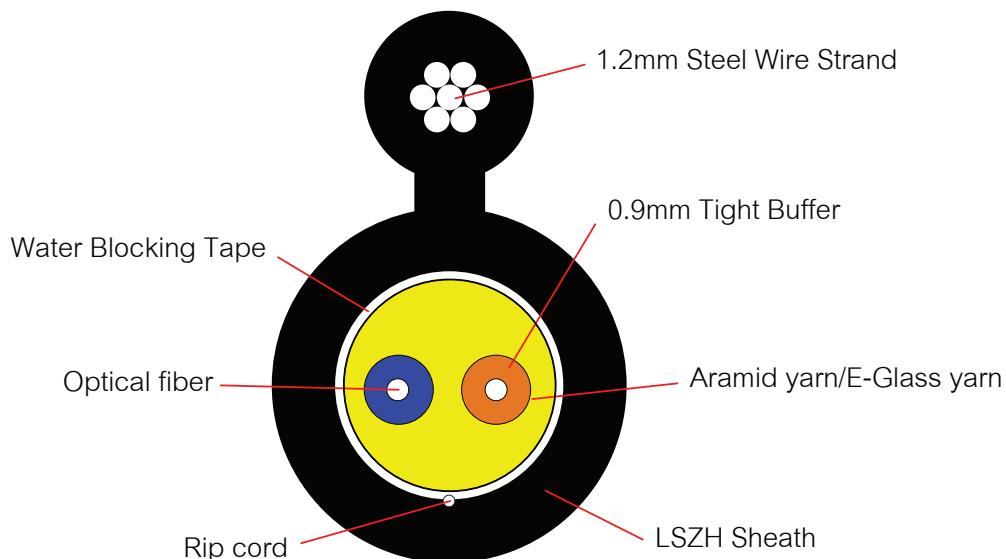
- Communication network
- Optical distribution network
- Lan system
- FTTH
- SC APC/ UPC Connector



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 PE/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 <sup>2</sup> ×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