TECHNICAL SPECIFICATION OF DROP OPTICAL FIBER CABLE FOR FTTH INDOOR APPLICATION (IEC 60794-2)

I-XH (GJXH) mxn 200N

Fiber type	SM 9/125 G.657 A1, A2
Attenuation at 1310 nm	Max 0,40 dB/km
Attenuation at 1550 nm	Max 0,25 dB/km

		Up to 4 fiber
Number of tube	Pieces	Optical fibers should be embedded outer sheath
Number of fiber	Fiber	Up to 4 fiber
Tensile Strength (Installation)	N	100
Tensile Strength (Operation)	N	50
Nominal Outer Diameter of cable	Nom mm D Nom mm H	(2,00 mm ±0,1) (3,00 mm ±0,1)
Color of Fiber	……	Blue, Orange, White, Yellow
Nominal Cable Weight	Kg/km	8,50
Nominal Gross Weight	Kg/drum	20
Drum Flange Diameter	cm	50
Nominal Cable Length on Drum	Meter/drum ±%3	2.000

Outer Sheath Material	LSZH/HFFR (IEC 60332-1-2)	
Color of Outer Sheath	White	
Cable Sizes	(2,00 mm ±0,1) x (3,00 mm ±0,1)	
FRP Diameter	Nom 0,50 mm	
Tensile Strength (Installation)	200 N	IEC 60794-1 E1
Tensile Strength (Operation)	100 N	IEC 60794-1 E1
Crush Strength (Installation)	100N/100mm	IEC 60794-1 E3
Crush Strength (Operation)	80N/100mm	IEC 60794-1 E3
Bending Radius (Static)	20 mm	IEC 60794-1 E11
Drum Material	Poly-wood Drum	
Temperature Cycling(Storage)	-30 / +70°C	IEC 60794-1 F1
Operation Temperature	-30 +60ºC	IEC 60794-1 F1
Installation Temperature	-30 +60ºC	IEC 60794-1 F1

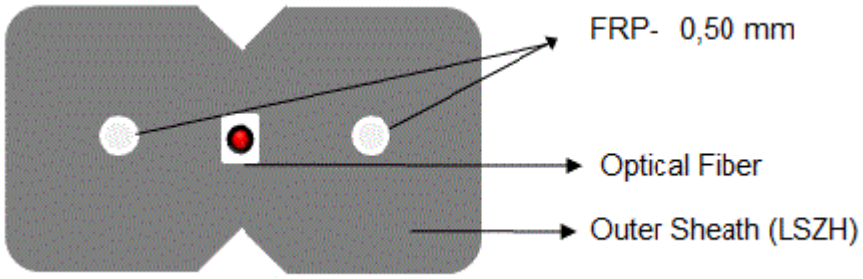
Cable Characteristics

-Simple structure, lighted weight and high tensile strength of cable, FTTX application

-Novel groove design, easy strip and splice, simplified installation and maintenance

-Low smoke, zero halogen and flame retardant sheath, environment and friendly, good safety

Cable Construction



Note: Drawing is not scaled

Length marking on the cable

The following designations shall be applied in a continuous to the outer sheath so that they are clearly legible over the entire length of the cable.

-Manufacture Name

-Year of Manufacture

-Cable Identification

-Fiber Type

Outer sheath material

-Marks of Meter that is indicating the length ZZZZ meter

Eg. TURKUAZ 2015 Drop Optical Cable 1x1 SM G.657 A2 LSZH 0000 meter

Delivery Length

Standard reel length is 2.000 meter±%5 with poly-wood drums, other delivery length is also possible upon request.

Cable Life Time

Designed cable has a minimum 25 years' service life time, if the cable is correctly installed. The cables are under our guarantee for 5 (five) years caused by the raw material or manufacturing defects.

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TECHNICAL SPECIFICATION FOR SINGLE MODE OPTICAL FIBER (G.657 A2.)

Optical Specifications

Attenuation	@1310 nm:	Max.0,35 dB/km
	@1550 nm:	Max. 0,21 dB/km
	@1625 nm:	Max. 0,22 dB/km
	@ 1383±3 nm	Max. 0,33 dB/km

Bending induced attenuation

Mandrel radius	Number of Turns	wavelength	Attenuation
7,5 mm	1	1550	Max0,50
7,5 mm	1	1625	Max 1,0
10 mm	1	1550	Max 0,10
10 mm	1	1625	Max 0,20
15 mm	10	1550	Max 0,03
15 mm	10	1620	Max 0,1

Cable Cut-off Wavelength		≤ 1260
Chromatic Dispersion	at 1550 nm	≤ 18 (ps nm/km)

Zero Dispersion Wavelengths	1300-1324 nm
Zero Dispersion slope	≤ 0,092 ps/(nm² .km)
Polarization Mode Dispersion Coefficient:	≤ 0,2 ps/ rkm
Fiber PMD link design value	≤ 0,08 ps/ rkm

Geometrical Specifications

Mode Field Diameter at 1310 nm:	8,6µm ± 0,4
Cladding Diameter:	125µm ±0,7µm
Core/Cladding Concentricity Error:	≤ 0,5 µm
Cladding Non-Circularity:	≤ 0,7%
Coating Diameter colored	250±15µm
Coating/Cladding Non-Circularity Error	≤ 12%
Fiber proof test level	≥ 100 kpsi (1,0 % strain)

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