

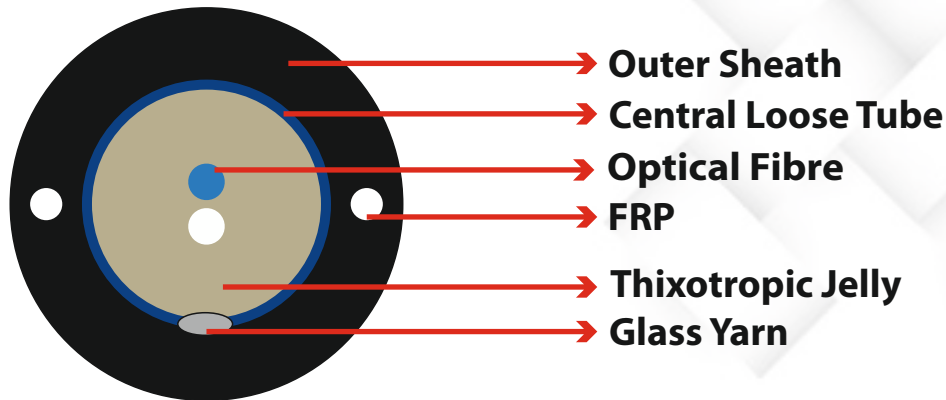
Technical Data Sheet

UNITUBE SM 2F G.652D/G.657A1/G.657A2

DROP CABLE

Date: 10.03.2024

Construction Details	
No of Fiber and Color	: 02F per Tube - Blue, Natural.
FRP	: Single/Dual FRP
Loose Tube	: PBT Loose Tube Filled With Thixotropic Jelly
HDPE Coating	: Single Coating
Lining Option	: L1 Orange/Blue/Yellow/Green Line on Black Cable
Yarn Count	: 300/600 TEX
No of Loose Tube	: 1 Loose Tube
Tube Identification	: Natural
Strength Member	: Single (0.5mm) - Thermal/UV-Uncoated/UV-Coated FRP
Outer Jacket	: PE Black Color
Schematic Diagram Not to Scale	



Fibre Characteristics (As per ITU-T Rec. G. 652 D)			
Attenuation (Transmission Characteristics)			
@ 1310 nm	: ≤ 0.4 (dB/Km)	Mode Field Diameter @ 1310 nm	: $9.2 \pm 0.4 \mu\text{m}$
@ 1550 nm	: ≤ 0.2 (dB/Km)	Mode Field Diameter @ 1550 nm	: $10.3 \pm 0.5 \mu\text{m}$
Dispersion		Cladding Diameter	: $125 \pm 1 \mu\text{m}$
		Cladding Non Circularity	: $\leq 1\%$
A. Total Dispersion (Chromatic Dispersion)		Core Clad Concentricity Error	
1285-1330nm	: ≤ 3.5 ps/nm.km	Coating Diameter(Uncolored)	: $245 \pm 10 \mu\text{m}$
1270-1340nm	: ≤ 5.3 ps/nm.km	Coating/Cladding Concentricity	: $\leq 12 \mu\text{m}$
1550nm	: ≤ 18 ps/nm.km	Cut Off Wavelength	
1625nm	: ≤ 22.0 ps/nm.km	Fiber Cut Off Wavelength	: ≤ 1320 nm
B. Polarization Mode Dispersion at 1310 & 1550 nm		Cable Cut Off Wavelength	: ≤ 1260 nm
At Fibre Stage	: ≤ 0.2 ps/sqrt.km	Mechanical & Operating Characteristics	
At Cable Stage	: ≤ 0.3 ps/sqrt.km	Fibre Proof Test	: 1%
C. Dispersion Slope & Wave Length		Stripability Force	: $1.3 < F < 8.9$ N
Zero Dispersion Wavelength	: 1300-1324 nm	Fibre Curl	: 4 meter radius of curvature
Zero Dispersion Slope	: ≤ 0.092 ps/nm ² .km	Operating Temperature	
Cable Mechanical & Physical Characteristics		: -20° C to +70° C	
Cable Mechanical Characteristics		Cable Physical Characteristics	
Max. Tensile Strength	: 100 N (Short Term)	Cable Diameter	: 4.5/4.7/5mm
Crush Resistance	: 250 N/10 CM	Nominal Cable Weight	: Approx. 16 kg/km
Impact Resistance	: 10 N 0.5 m	Packing Length	: 0.5/1km $\pm 5\%$
Min. Bending Radius (Long Term)	: 20D (D= Cable Diameter mm)	Packing Details	: Coil Form
All Tests Shall be Carried out as per IEC Standards. Change in attenuation Shall be ≤ 0.05 dB/km			
Cable Printing Details: (Hot Foil White Emb.)		OFC wwY OPTRONIX xx 2F SC FRP Yw6 UT SM G.652D MONTH YYYY Length Code Meter Marking Note: ww will be replaced with outer diameter 45,47,50 xx will be replace with PRIME/NEO/PLATINUM	



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UNITUBE SM 2F G.652D/G.657A1/G.657A2

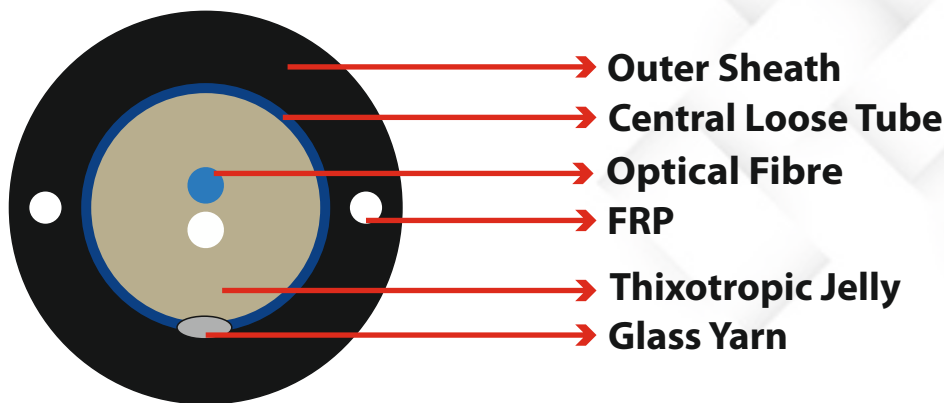
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