

24F,SM,OS2, G.657.A1, MTL (4T/6F) jelly Filled, DJ, HDPE ECCS Tape Outdoor Armored Optical Fiber Cable.



Photo for only references

Multi Loose tube Double sheath Construction with Steel Tape armored Cable with excellent mechanical protection.

Thus, secure rodent Protected additional jacket with Anti Rodent & Anti termite with outer jacket HDPE outer sheath Designed for Outdoor, suitable for duct and direct burial application.

The buffer tubes contain Jelly Water Blocking Compound Water Swellable yarn Prevent water ingress.

Technical Data

DESCRIPTION [UNIT]	VALUE/VALUE RANGE
Standard	ISO/IEC 11801; ITU-T G.657.A1, IEC 60794-1-21 E1; IEC 60794-1-21, E3; IEC 60794-1-21 E4; IEC 60794-1-21 E7; IEC 60794-1-21 E11; IEC 60794-1-21 E14; IEC 6074-1-22 F1& F5; Bell core GR-20, ITU-T, RoHS.
Cable class	Multi Loose Tube
Fiber / conductor diameter	9/125/250µm
Fiber type, Class	Single Mode (SM), OS2,G.675.A1
Fiber Count	24F
No. of fiber Per Tube	6F
No of Tubes/Fillers	4Tubes/2 Filler
Strength Member	FRP Rod
Fiber color	Blue,Orange,Green,Brown,Slate,White.
Tube material	PBT & Filling Gel
Loose Tube	Blue,Orange,Green,Brown, Loose tube BK1,BK2.
Water Blocking compound	Water Swellable Tape & yarn.
Core Wrapping	Water blocking tape & water swell able yarns
Peripheral Strength Member	Glass Roving Yarns to meet required tensile strength
Armouring	Corrugated ECCS Tape Armouring
Rip cord Inner/outer sheath	2nos RIP cord below ECCS Tape & 2nos below inner sheath.
Inner Sheath Material/jacket thickness	UV proof HDPE Black
Outer Sheath Material/Jacket thickness	UV proof HDPE Black (Anti Rodent & Anti Termite)
Cable overall diameter(mm)	13.0+/- 0.1 mm.
Max. Tensile strength	3000N @ 0.25% Fiber Strain
Max. Crush Resistance	3000N/100*100mm
Water Penetration Test	1m waterhead, 3m samples, 24 h
Min. Bending Radius	20 D
Operation Temperature	-20°C to +70°C
Installation Temperature	-10°C to +70°C
Storage Temperature	-20°C to +70°C
Length (meter)	2000±10%
Cable weight (Kg/Km)	170±10%

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This enhanced Single mode fibre provides improved performance across the entire 1260 nm to 1625 nm wavelength spectrum due to its low attenuation in 1383 nm the water-peak region. The fibre design is matched cladding.

Specification:

Standards and norm	This fibre fulfil the requirements	When cabled, the fiber fulfil the requirement for use
following standards:	<ul style="list-style-type: none"> IEC 60793-2-50 Category B.1.3 EN 60793-2-50: Class B1.3 ITU Recommendation G.652.D The older ITU designations A, B and C are also fulfilled IEC 60793-1-XX: 2002 • EN 60793-1-XX: 2002 	in a number system among them is. EN 50 173-1: 2002, cat. OS1 + OS2 ISO/IEC 11801: 2002, cat. OS1 + OS2 IEEE 802.3 - 2002 incl. 802.3ae. Testing methods are in accordance with the
Core	The core is germanium doped.	
Coating	The fibre coating is dual layer UV curable acrylate	
Optical properties	Attenuation (of cable with fibers): In the range 1310 nm - 1625 nm:At 1310 nm ≤ 0.36 dB/km At 1550 nm: ≤ 0.25 dB/km	In homogeneity of OTDR trace for any two 1000-meter fiber lengths Max.: 0.1 dB/kmGroup index of refraction:
	Water peak attenuation @ 1383 nm (dB/km):	≤ attenuation at 1310nm

Dimensional and mechanical properties

Property	Value	Standard
Cladding diameter (µm)	125.0 ± 0.7	IEC/EN 60793-1-20
Cladding non-circularity (%)	≤ 1.0	IEC/EN 60793-1-20
Core (MFD) non-circularity (%)	≤ 6	IEC/EN 60793-1-20
Core (MDF) -cladding concentricity error (µm)	≤ 0.6	IEC/EN 60793-1-20
Primary coating diameter - uncolored (µm)	245 ± 10	IEC/EN 60793-1-21
Primary coating diameter - colored (µm)	250 ± 15	IEC/EN 60793-1-21
Primary coating non-circularity (%)	≤ 5	IEC/EN 60793-1-21
Primary coating-cladding concentricity error (µm)	≤ 12.0	IEC/EN 60793-1-21
Proof stress level (GPa)	≥ 0.7 (≈ 1 %)	IEC/EN 60793-1-30
Strip force (peak) (N)	1.0 ≤ F peak. Strip ≤ 8.9	IEC/EN 60793-1-32
Chromatic dispersion coefficient:		IEC/EN 60793-1-42
In the interval 1285 nm – 1330 nm (ps/km • nm)	≤ 3.5	
1285 nm – 1330 nm (ps/km • nm)	≤ 5.3	
At 1550 nm (ps/km nm)At	≤ 18.0	
1625 nm (ps/km.nm)	≤ 22.0	
Zero dispersion wavelength, λ ₀ (nm)	1300 to 1324nm	
Zero dispersion slope (ps/ (nm ² • km))	≤ 0.092	IEC/EN 60793-1-44
Cut-off wavelength (λ _c nm)	High limit: 1330 Low limit: 1150	
Cut-off wavelength (λ _{cc} nm)	≤ 1260	
Mode field diameter (µm)	8.8 to 9.8	IEC/EN 60793-1-45
Macro bending loss at 1550 nm, 100 turns on a ø 60 mm mandrel (dB)	≤ 0.05	IEC/EN 60793-1-47
Polarization mode dispersion (PMD) 1310 and 1550 (ps/√km)	≤ 0.3	IEC/EN 60793-1-48
PMDQ Link Design Value (ps/√km)	≤ 0.2	IEC/EN 60794-3