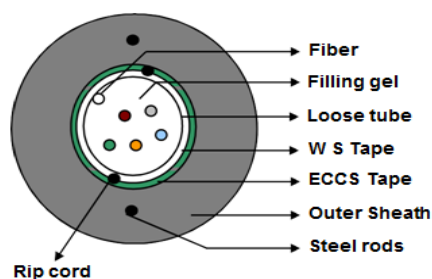


6F, SM, OS2, Central Loose Tube, Out door, ECCS Armored, Gel filled - HDPE Fiber cable

Product Details:



The outdoor cable for applications in harsh conditions. It contains a central gel- filled loose tube of a diameter of 2.5 mm for 2 - 16 fibers. The outer sheath is made of 0.150 mm ECCS tape armor plus a 1.8 mm HDPE sheath.

Sheath: HDPE, black.

Fiber: single mode (SM) E9/125

Similar product

Technical Data

DESCRIPTION [UNIT]	VALUE/VALUE RANGE
Standard	ISO/IEC 11801:2002 ITU-T G.652.D IEC 60793-2-50:2004, B 1.3 IEC 60794-1-2 E1; IEC 60794-1-2 E3; IEC 60794-1-2 E4; IEC 60794-1-2 E6; IEC 60794-1-2 E7; IEC 60794-1-2 E10; IEC 60794-1-2 E11; IEC 60794-1-22 F1.
Cable class	Loose Tube
Fiber / conductor diameter	E9/125µm
Fiber type, Class	Single mode (SM), G.652.D
Peripheral Strength member	2 Steel rods 1.0 ± 0.1 mm
Moisture Barrier	Water swellable Tape
No of Rip cords	2, Polyester
No of Fibers/ Conductors	6F
Cable jacket material	HDPE
Cable jacket characteristics	Cable, Water tight
Cable jacket characteristics	FR
Cable protection	ECCS tape
Cable overall diameter	10.0MM
Conductor type	Loose tube, gel-filled
Tensile strength,	800N
Crush Resistance	2000N
Impact Strength (Nm)	25
Torsion	± 180°
Bending diameter(Dynamic)	20XD
Installation Temperature	-20° C to +70° C.
Operation temperature	-20° C to +70° C.
Storage temperature	-20° C to +70° C.
Color	Black
Length (meter)	2000±10%
Cable weight(Kg/Km)	75 ± 10%

6F, SM, OS2, Central Loose Tube, Out door, ECCS Armored, Gel filled - HDPE Fiber cable

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:	• 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	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: ≤ 0.36 dB/km At 1550 nm: ≤ 0.23 dB/km	In homogeneity of OTDR trace for any two 1000-meter fiber lengths Max.: 0.1 dB/km Group index of refraction: At 1310 / 1550 / 1625 nm 1.467

Dimensional and mechanical properties

Property	Value	Standard
Cladding diameter (μm)	125.0 ± 0.7	IEC/EN 60793-1-20
Cladding non-circularity (%)	≤ 0.8	IEC/EN 60793-1-20
Core (MFD) non-circularity (%)	≤ 6	IEC/EN 60793-1-20
Core (MFD) -cladding concentricity error (μm)	≤ 0.5	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 ($\approx 1\%$)	IEC/EN 60793-1-30
Strip force (peak) (N)	$1.0 \leq F_{\text{peak}}$. 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)	$\leq 3.5 $	
At 1550 nm (ps/km • nm)	≤ 18.0	
At 1625 nm (ps/km • nm)	≤ 22.0	
Zero dispersion wavelength, λ_0 (nm)	1312 ± 10	
Zero dispersion slope (ps/ (nm ² • km))	≤ 0.092	
Cut-off wavelength (λ_c nm)	High limit: 1330 Low limit: 1150	IEC/EN 60793-1-44
Cut-off wavelength (λ_{cc} nm)	≤ 1260	
Mode field diameter at 1310 nm (μm)	9.2 ± 0.4	IEC/EN 60793-1-45
Mode field diameter at 1550 nm (μm)	10.3 ± 0.5	
Macro bending loss at 1550 nm, 100 turns on a $\varnothing$ 60 mm mandrel (dB)	≤ 0.05	IEC/EN 60793-1-47
Polarization mode dispersion (PMD) coefficient, cabled (ps/ $\sqrt{\text{km}}$)	≤ 0.5	IEC/EN 60793-1-48
PMD _Q Link Design Value (ps/ $\sqrt{\text{km}}$)	≤ 0.2	IEC/EN 60794-3