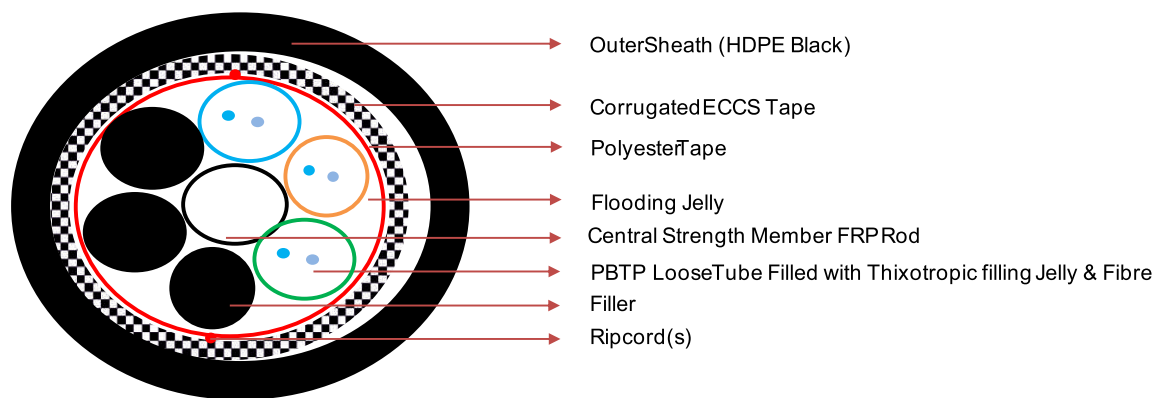


### Technical Data Sheet

Document no.	FS-OFC 6F SM G.652D/MT/Armoured /OF Cable/2022/114
Cable Description	FS-6F Multi Tube Single Sheathed Armoured Optical Fibre Cable
Type of Fibre	Single Mode, G.652D

#### Cable Cross Sectional Diagram [Drawing not to scale]



#### Cable Construction details

Central Strength Member	Fibre Reinforced Plastics (FRP Rod)
No. of Fibres per Tube	2 Fibres/Tube
Fibre Colour	Blue & Natural
No. of Loose Tubes	3 Nos., PBTP Loose Tube Filled with Thixotropic Jelly
Loose Tubes Colour	Blue, Orange & Green
No. of Filler/Dummy	3 Nos., PE Black
Moisture Barrier	Thixotropic Flooding Jelly
Core Sequence	Blue, Orange, Green, Filler-1, Filler-2 & Filler-3
Armour	Corrugated ECCS Tape applied longitudinally
Rip Cords	Two Nos. below HDPE Sheath
Outer Sheath	Black HDPE
Marking Details	Cable No, SLM, Laser & Telephone Symbol, G.652D,6F, PARAMOUNT CABLES, Y at every 1 meter interval or As per customer's requirements.

#### Optical Fiber Characteristics

Mode Field Diameter @ 1310 nm	9.2 ± 0.4 μm	
Cladding Diameter	125 ± 0.7 μm	
Cladding Non Circularity	≤ 0.8%	
Primary coating diameter	242 ± 5 μm	
Attenuation at 1310nm	≤ 0.36 dB/Km (Cabled Fibre)	
Attenuation at 1550nm	≤ 0.22 dB/Km (Cabled Fibre)	
Chromatic Dispersion	1285-1330nm	≤ 3.5 ps/nm.km
	1270-1340nm	≤ 5.3 ps/nm.km
	1550 nm	≤ 18 ps/nm.km
Polarization mode dispersion	≤ 0.3 ps/√km	

#### Cable Mechanical Characteristics

Operating Temperature	-20 °C to +70 °C
Cable Bend Test	20 x D, D = Cable Diameter
Maximum Tensile Strength	1500 Newton
Crush Test	1000 Newton/100mmX100mm

Tests shall be carried out as per IEC Standards. Change in attenuations shall be ≤ 0.5 dB/km

#### Cable Physical Characteristics

Cable Outer Diameter ± 0.5	10.0 mm	Cable length per Drum	2 km ± 10%
Cable Weight ± 10%	100 kg/km	Non Std Length (5% of Order Qty)	less than 1800 mtr