

12F SM ARMoured OPTICAL FIBRE CABLE

APPLICATIONS:

Suitable for Outdoor and Direct Burial Applications
Excellent Crush Resistant, Compact Construction, UV Resistant

CABLE CONSTRUCTIONS:

S. No	Components	Description			
a.	Central Tube	PBTP Loose tube filled with Thixotropic Jelly			
b.	Fibre Type	SM ITU-T G652 D			
c.	No. of Fibres	2F	4F	6F	12F
d.	Armour	Corrugated Steel Tape Armour			
e.	Strength Members	Steel Wire - 2 Nos. & Glass Yarns			
f.	Colour of Fibres	Blue & Orange	Blue, Orange, Green & Brown	Blue, Orange, Green, Brown, Grey & White	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink & Aqua
g.	Outer Sheath Material	HDPE - BLACK			

OPTICAL PROPERTIES:

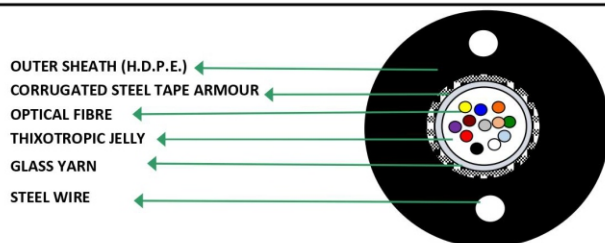
S. No	CHARACTERISTICS	Unit	VALUE
a.	Attenuation @ 1310 nm @ 1550 nm	dB/km	≤ 0.35
			≤ 0.22
b.	Chromatic Dispersion @ 1285-1330 nm @ 1550 nm	ps/nm.km	≤ 3.5
			≤ 18.0
c.	Zero Dispersion Wavelength	nm	1300 to 1324
d.	Zero Dispersion Slope	ps/nm ² .km	≤ 0.092
e.	Clad Diameter	µm	125 ± 0.70
f.	Mode Field Diameter	µm	9.2 ± 0.4
g.	Core Clad Concentricity Error	µm	≤ 0.6
h.	Cladding Non Circularity	%	≤ 1
i.	Cable Cut off wavelength	nm	< 1260

PHYSICAL, MECHANICAL & ENVIRONMENTAL PROPERTIES

Fibre Count	Outer Cable Diameter (mm)	Cable Weight Nominal (Kg/Km)	Pulling Tension (N) IEC 60794-1-2-E1	Compressive Strength (N/100 mm) IEC 60794-1-2-E3	Bend Radius (mm) IEC 60794-1-2-E11	Operating Temperature (Deg. C.)
2 to 12	7.5 ± 0.5	50	1500	4000	20 D	- 30 Deg. C to + 70 Deg. C

Note: Maximum Change in Attenuation ≤ 0.05 db/Km in each Mechanical and Environmental tests

CONSTRUCTIONAL DIAGRAM



Standard Length: 900 to 1200 Meter in Coils and 1.8 to 3.0 Km in drums

Printing on Cable: Standard Printing