

1. Physical Characteristics:

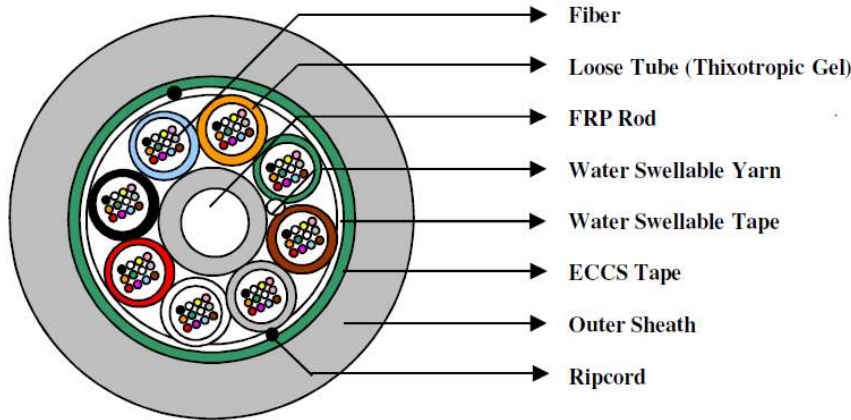


Table 1.1 Construction details



Parameter	Dimension	Type, Colour
Number of fiber per tube	12	Colour: Blue ,Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua 
Number of loose tubes	8	Colour 
Loose tube	1.6/2.2±0.1mm	PBTP with Thixotropic gel
Central Strength member	2.5±0.1mm	FRP Rod – Up coated to 3.5 mm
Core Wrap	-	WS tape
Moisture Barrier	-	WS yarn
Rip cord	2	Polyester
Armour	0.15mm	ECSS-Corrugated
Outer Sheath	1.5mm (Nominal)	HDPE - Black
Overall Cable diameter	13.0 ± 0.5	
Cable weight	155 ± 15kg/km	

Table 1.2 Cable Mechanical Characteristics:

Parameter	Dimension
Tensile Strength	1000 N @ 0.25% Fiber Strain
Crush Resistance	2000 N/(100mm)
Torsion Resistance	± 180°
Minimum bend radius	20 x D , D=Diameter of cable
Impact Resistance	25 Nm

Table 1.3 Temperature Performance:

Parameter	Dimension
Installation	- 30 °C to + 50 °C
Operation	- 30 °C to + 70 °C
Storage	- 30 °C to + 70 °C

2. Optical Fiber Characteristics:



FIBER OPTIC CABLE OUTDOOR 96F MULTIUNIT DISTRIBUTION ARMOURED HDPE

Fibre Type	G.652D (OS2)		50 µm (OM3)		50 µm (OM4)	
Attenuation	at 1310 nm	≤ 0.36 dB/km	at 850 nm	≤ 3.0 dB/km	at 850 nm	≤ 3.0 dB/km
	at 1550 nm	≤ 0.20 dB/km	at 1300 nm	≤ 1.0 dB/km	at 1300 nm	≤ 1.0 dB/km
	at 1625 nm	≤ 0.22 dB/km				
Chromatic Dispersion	1285 - 1330 nm	≤ 3.5 ps/nm.km Minimum	850 nm	≥ 1500 MHz.km	850 nm	≥ 3500 MHz.km
	1550 nm	≤ 18 ps/nm.km	1300 nm	≥ 500 MHz.km	1300 nm	≥ 500 MHz.km
Zero Dispersion Wavelength		1302 - 1322 nm				
Zero Dispersion Slope		≤ 0.092 ps/nm ² .km				
Polarisation Mode Dispersion	Un cabled Link design	≤ 0.10 ps/vkm ≤ 0.06 ps/km				
Cable Cut-off Wavelength		≤ 1260 nm				
Mode Field Diameter	at 1310 nm	9.2 ± 0.4 µm	Core Diameter	50 ± 2.5 µm	Core Diameter	50 ± 1 µm
Mode field Concentricity Error		≤ 0.5 µm	Core Cladding Concentricity Error	≤ 1 µm	Core Cladding Concentricity Error	≤ 1 µm
Cladding Diameter		125 ± 0.7µm		125 ± 1 µm		125 ± 1 µm
Cladding Non-circularity		≤ 0.7 %		≤ 1 %		≤ 1 %
Coating Diameter	Uncoloured	245 ±5 µm	Coloured	250 ± 10 µm	Coloured	250 ± 15 µm

3. Packaging:

Packing	Wooden drum reel
Default Cable length in drum	2000m ±10%

4. Cable Printing details:

CIS FO OUTDOOR CABLE <fiber count> <fiber type> <cable type> <cable PN> <date> <batch number> XXXXX METER

CIS Cable PN	Fiber Count	Fiber Type	Cable type	Packaging Length
CA-00014-201	96	SM G.652D (OS2)	MULTIUNIT DISTRIBUTION ARMOURED HDPE	2000m ±10%
CA-00014-203	96	MM 50/125 (OM3)	MULTIUNIT DISTRIBUTION ARMOURED HDPE	2000m ±10%
CA-00014-204	96	MM 50/125 (OM4)	MULTIUNIT DISTRIBUTION ARMOURED HDPE	2000m ±10%
CA-00014-N01	96	SM G.652D (OS2)	MULTIUNIT DISTRIBUTION ARMOURED HDPE	N000m ±10%
CA-00014-N03	96	MM 50/125 (OM3)	MULTIUNIT DISTRIBUTION ARMOURED HDPE	N000m ±10%
CA-00014-N04	96	MM 50/125 (OM4)	MULTIUNIT DISTRIBUTION ARMOURED HDPE	N000m ±10%