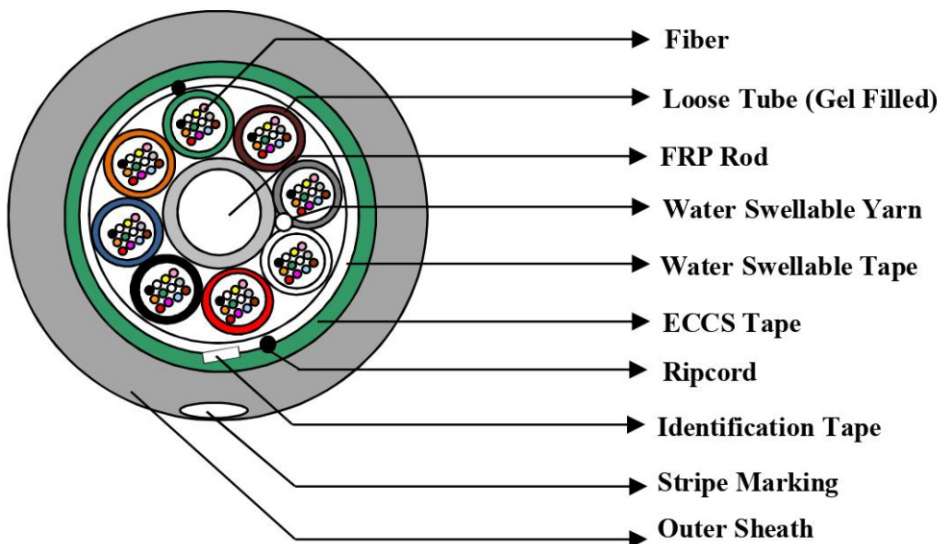


## 96 F SM G652D ARMOURED OPTICAL FIBRE CABLE



Optical Fibre Characteristics (IEC 60793)		
Fibre Type	ITU-T G.657A1	
Attenuation (After Cabling)	at 1310 nm	≤ 0.34 dB/km
	at 1550 nm	≤ 0.20 dB/km
	at 1625 nm	≤ 0.22 dB/km
Chromatic Dispersion	1285 - 1330 nm	≤ 3.5 ps/nm.km
	1550 nm	≤ 18 ps/nm.km
	1270 - 1340 nm	≤ 5.3 ps/nm.km
	1625 nm	≤ 22 ps/nm.km
Zero Dispersion Wavelength	1300 - 1324 nm	
Zero Dispersion Slope	≤ 0.092 ps/nm <sup>2</sup> .km	
Polarisation Mode Dispersion	Individual Fibre	≤ 0.1 ps/√km
	Link Design Value	≤ 0.06 ps/√km
Cut-off Wavelength	Cable	≤ 1260 nm
Mode Field Diameter	at 1310 nm	9.2 ± 0.4 μm
	at 1550 nm	10.3 ± 0.5 μm
Core Cladding Concentricity Error	≤ 0.5 μm	
Cladding Diameter	125 ± 0.7 μm	
Cladding Non-circularity	≤ 0.7 %	
Coating Diameter	(Uncoloured)	245 ± 5 μm

Cable Construction Details		
Parameter	Dimensions	Type, Color
Number of Fiber per tube	12	Color Bl Or Gr Br Sl Wh Rd Bk YL Vi Pk Aq
Number of Loose Tubes	8	Color Bl Or Gr Br Sl Wh Rd Bk
Loose Tube ID/OD	1.5/2.1 ± 0.1 mm	PBT - Gel Filled
Central Strength Member	2.5 ± 0.1 mm	FRP Rod PE Upcoated to 3.5 mm
Moisture Barrier	---	Water Swellable Yarn
Core Wrapping	---	Water Swellable Tape
Armouring	---	ECCS Tape
Identification	---	PP Binder Tape
Outer Sheath	1.6 mm (Minimum)	HDPE - Black UV Sabilised
Marking on Outer Sheath	≈ 3 mm	HDPE - White - 1 Stripe
Number of Ripcords	2	Polyester
Overall Cable Diameter	13.2 ± 0.5 mm	
Cable Weight (kg/km)	160 ± 10 %	

Cable Mechanical Characteristics (IEC 60794-1-21)	
Tensile Strength	9.81*1.3* W @ 0.25% fiber strain
Crush Resistance	3000 N/ 100 mm x 100 mm
Impact	50 N, Height 0.5 mtr
Torsion	± 180 °
Minimum Bend Radius	20 x D

Temperature Performance (IEC 60794-1-22)	
Installation	- 10 °C to + 60 °C
Operation	- 20 °C to + 70 °C
Storage	- 20 °C to + 70 °C

<b>Packing</b>	Wooden Drums
<b>Drum Length</b>	4.0 km ± 5 %

WPT (IEC 60794-1-22-F5B)
3 m Cable sample, 1 m Water height, 24 Hours

<b>Printing Details</b>	<i>As per customer requirement</i>
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<b>Cable Performance Standard</b>	IEC 60793, ANSI/ICEA S-87-640, ITU-T, RoHS, REACH.
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