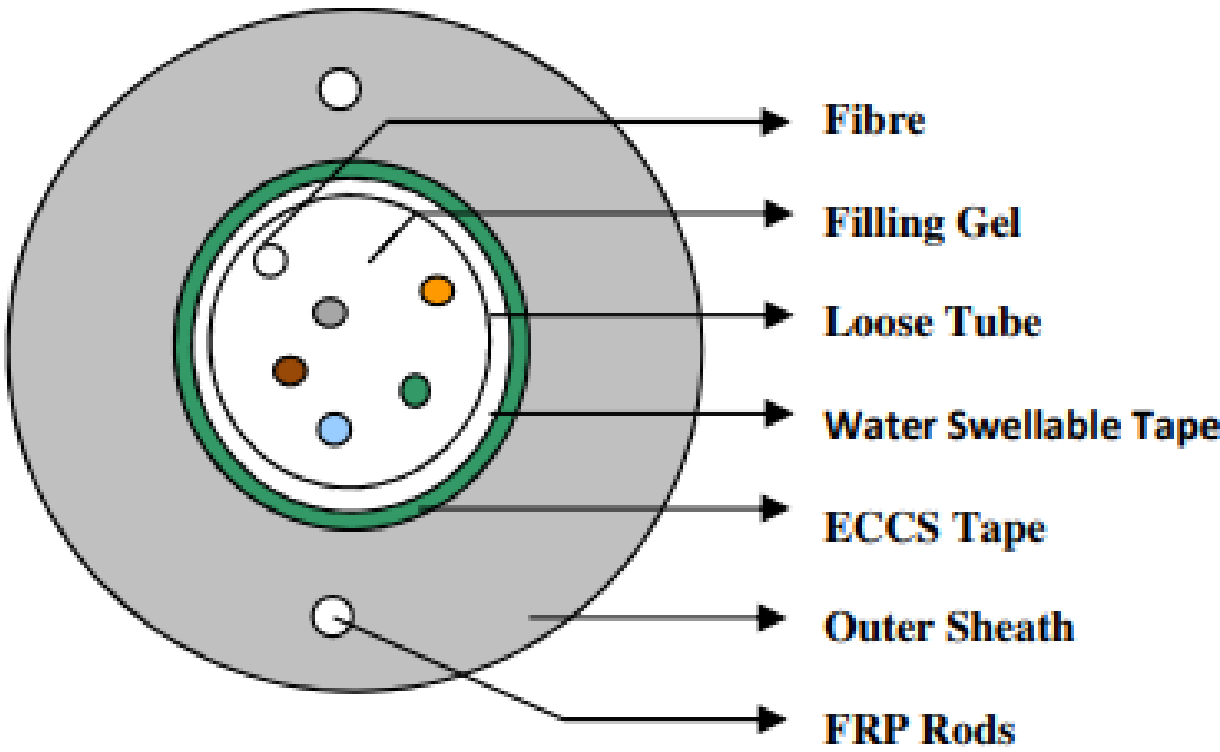


PART CODE:- QCTN-FCSM6-A

6F SM UNITUBE ARMoured OFC

Cable Construction Details			
Parameter	Dimensions	Type, Color	
Number of Fiber per tube	6	Color	
Number of Loose Tubes	1	Color	
Loose Tube OD	2.5 ± 0.2 mm	PBT	
Peripheral Strength Member	1.0 ± 0.05 mm	FRP Rod	
Moisture Barrier	---	Water Swellable Tape	
Armouring	---	ECCS Tape	
Outer Sheath	1.8 mm (Nominal)	HDPE - Black	
Overall Cable Diameter	8.5 ± 0.5 mm		
Cable Weight	65.0 ± 10 kg/km		

Optical Fibre Characteristics		
Fibre Type		G.652D (OS2)
Attenuation	at 1310 nm	≤ 0.36 dB/km
	at 1550 nm	≤ 0.22 dB/km
Chromatic Dispersion	1285 - 1330 nm	≤ 3.5 ps/nm.km
	1550 nm	≤ 18 ps/nm.km
Zero Dispersion Wavelength		1300-1324 nm
Zero Dispersion Slope		≤ 0.092 ps/nm2.km
Polarisation Mode Dispersion		≤ 0.2 ps/√km
Cut-off Wavelength λ _{cc}		≤ 1260 nm
Mode Field Diameter	at 1310 nm	9.2 ± 0.4 μm
	at 1550 nm	10.4 ± 0.5 μm
Core Cladding Concentricity Error		≤ 0.6 μm
Cladding Diameter		125 ± 0.7 μm
Cladding Non-circularity		≤ 0.7 %
Coating Diameter (Uncolored)		242 ± 5 μm



Cable Mechanical Characteristics	
Max Tensile Strength	Short Term : 800 N
Max Crush Resistance	Short : 220 N/cm
	Long : 110N/cm
Impact Strength	15 N.m
Torsion	± 180 ⁰
Minimum Bend Radius (Max)	Installation : 20 x D
	Service : 10 x D

Temperature Performance	
Installation	- 20 °C to + 60 °C
Operation	- 20 °C to + 60 °C
Storage	- 20 °C to + 60 °C

