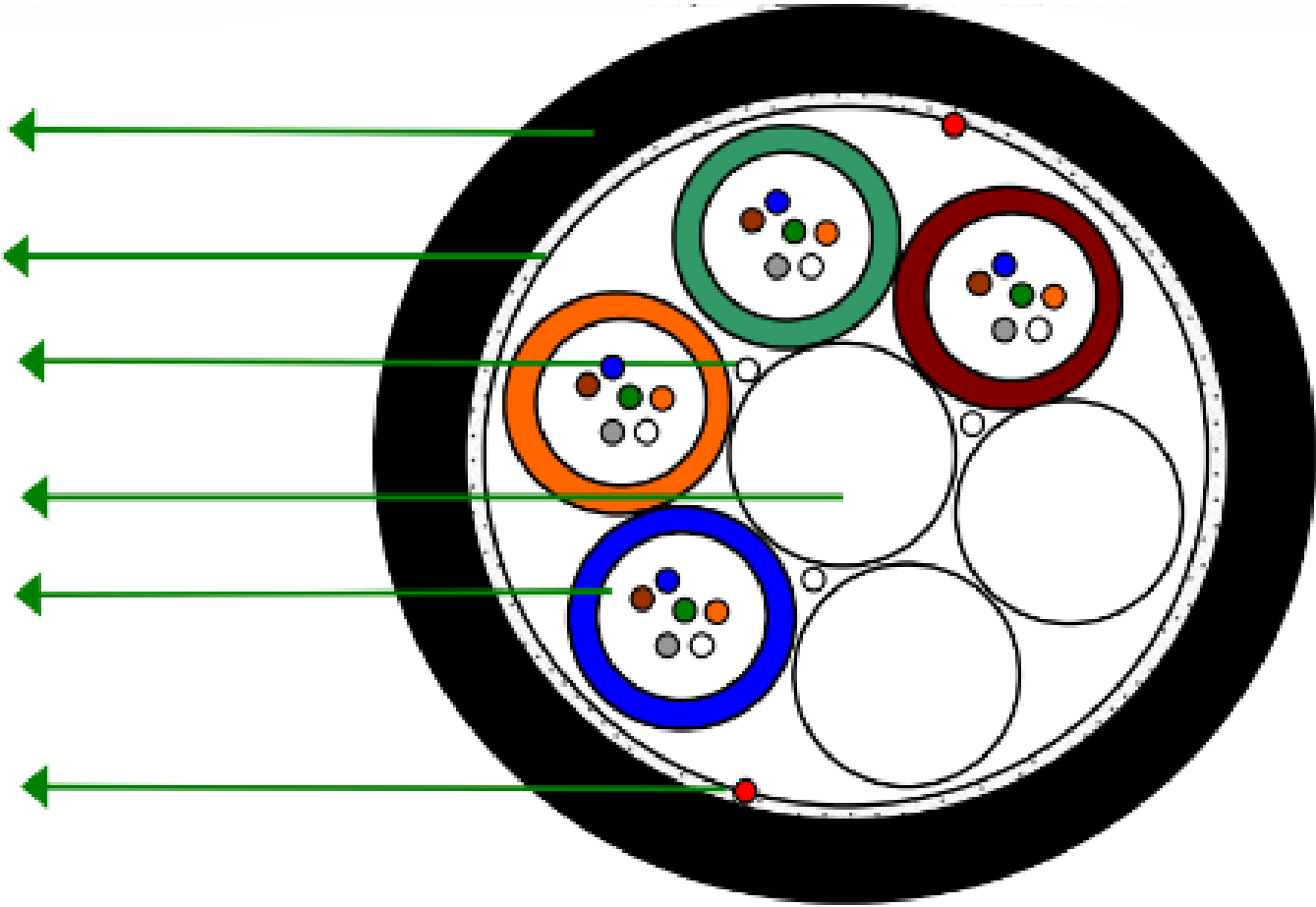


PART CODE:- QCTN-FCSM12

12F SM MULTITUBE UNARMORED OFC

Cable Construction Details		
Parameter	Dimensions	Type, Color
Number of Fiber per tube	6F	Color 
Number of Loose Tubes	4	Color 
Loose Tube OD	1.8± 0.2 mm	PBT
Central Strength Member	1.5 ± 0.2mm	FRP Rod
Number of Fillers	2	HDPE - Black
Moisture Barrier	---	Water Swellable Yarn
Core Wrapping	---	Water Swellable Tape
Outer Sheath	1.6mm(Nominal)	
Number of Rip cords	2	HDPE - Black
Overall Cable Diameter	9 ± 0.5 mm	Polyester
Cable Weight	63 ± 8 kg/km	

Optical Fibre Characteristics		
Fibre Type		SMG652D
Attenuation	at 1310 nm	≤ 0.35 dB/km
	at 1550 nm	≤ 0.22 dB/km
Chromatic Dispersion	1270-1340 nm	≤ 5.3 ps/nm.km
	1285-1330nm	≤ 3.5 ps/nm.km
Zero Dispersion Wavelength		1300 - 1324 nm
Zero Dispersion Slope		≤ 0.092 ps/nm2.km
Polarisation Mode Dispersion	(Individual Fibre)	≤ 0.2 ps/√km
	(Link Design value)	≤ 0.01 ps/√km
Cut-off Wavelength lcc		≤ 1260 nm
Mode Field Diameter	at 1310 nm	9.2 ± 0.5 μm
Core Cladding Concentricity Error		≤ 0.60 μm
Cladding Diameter		125 ± 0.7μm
Cladding Non-circularity		≤ 1 %
Coating Diameter	(Uncolored)	245 ± 10 μm



Cable Mechanical Characteristics	
Tensile Strength	1000 N
Crush Resistance	2000 N
Impact Strength	2000N
Torsion	± 180°
Minimum Bend Radius	180MM

Temperature Performance	
Installation	- 30 °C to + 70 °C
Operation	- 30 °C to + 70 °C
Storage	- 30 °C to + 70 °C