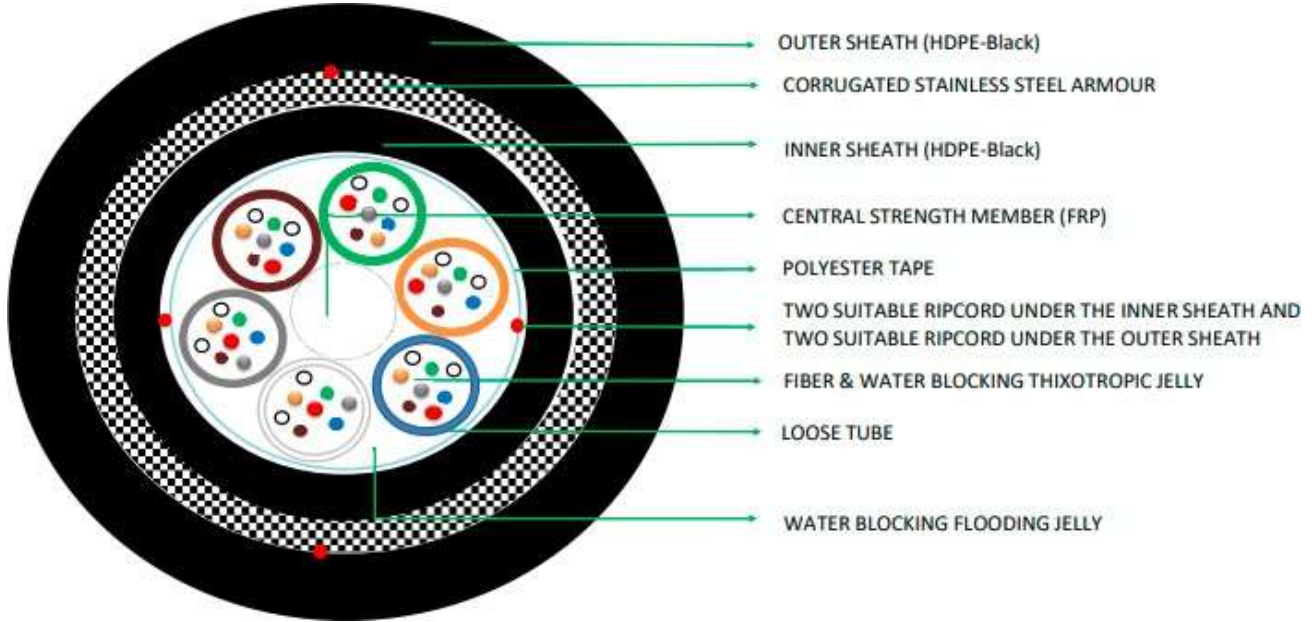


48F SM G652D MT DSA OPTICAL FIBER HDPE CABLE



Cable Construction Details	
Type of Fiber	Single Mode, ITU-T G.652 D
Fiber Count	48 Fiber
No. of Fibers per Tube	8 Fibers/ tube
Loose Tube Material	PBT
Loose Tube Diameter OD	2.4 ± 0.1 mm
Central Strength Member	FRP 2.5 ± 0.05 mm
Moisture Barrier	Flooding Gel and Polyester Tape
Inner Sheath Material	HDPE - Black
Inner Sheath Thickness (mm)	1.5 (min)
Armouring	Corrugated Stainless Steel Tape
Outer Sheath Material	HDPE - Back (UV) Anti Termite
Outer Sheath Thickness (mm)	2.00 ± 0.1 mm
Rip Cords	2 below Inner Sheath and 2 below armor
Cable Overall Diameter (mm)	16.00 ± 1.0 mm
Weight (Kg/ KM)	240 ± 10%
Optical Cable Characteristics & Fiber Geometry : G652.D Fiber	
Attenuation (dB/km) @ 1310 nm	≤ 0.36
Attenuation (dB/km) @ 1550 nm	≤ 0.22
Attenuation (dB/km) @ 1625 nm	≤ 0.26
Attenuation (dB/km) @ 1490 nm	≤ 0.26
MFD @ 1310 nm (µm)	9.2 ± 0.4
Clad dia. (µm)	125 ± 0.7
Coating dia. (µm)	242 ± 5.0



Cable Mechanical Characteristics	
Properties	Specified Values
Tensile Strength (N) (Long Term/ Short Term)	2670 Or 9.8 x W x 2.5 (whichever is higher)
Crush Resistance (N/100mm * 100 mm)	4000
Torsion	± 180°, 2 m cable, 400 N, 10 cycles
Bending Diameter	20 x D
Temperature Range	-20° to +70°C (Operation)
<i>Test Shall be carried out as per IEC standards. Change in attenuations shall be ≤ 0.05 dB/ km.</i>	

Colour Code									
Fiber / Tube					Loose Tube				
1	2	3	4	5	1	2	3	4	5
Blue	Orange	Green	Brown	Slate	Blue	Orange	Green	Brown	Slate
6	7	8			6				
White	Red	Natural			White				

Packing Detail	
Packing Type	Wooden Drum
Length & Tolerance	3 KM ± 10%
Printing Detail	
Printing Details	As per RDSO spec

Ordering Information

Part Code	Item Description
AX-AG-48FSMMTDSAFC	48F SM G652D MT DS ARMoured OPTICAL FIBER HDPE CABLE