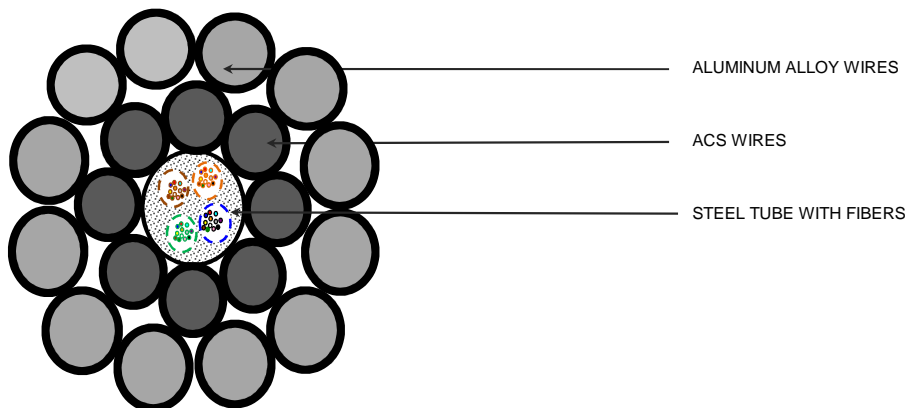


FGB048-1A4.00-0812
PRODUCT INFORMATION

	NOS.	MATERIAL	NOMINAL VALUE
OPTICAL UNIT			
Optical Fibre	48 Nos.	ITU T G652 D	STERLITE
Cabled attenuation 1310/1550 nm		Maximum	≤ 0.35/0.22 dB/Km
Fiber Tube	1 Nos.	Gel-filled Stainless Steel Tube	4.00 mm Nominal Diameter
GROUNDING UNIT			
Core	1 Nos	Stainless steel Tube	4.00 mm Nominal Diameter
Layer - 1	8 Nos	27.0% ACS wires	Left Hand Lay 2.45 mm Nominal Diameter
			Stranded:Inner Layer Greased
Layer - 2	12 Nos	Aluminum Alloy wires	Right Hand Lay 2.95 mm Nominal Diameter
Cable Details			
Overall diameter		Dual Layer	14.80 mm
Total Cross-Sectional Area			119.73 mm ²

CONSTRUCTIONAL DETAILS

OPGW CABLE PERFORMANCE

MECHANICAL PROPERTIES		Factory Tests & Standards	
Ultimate/Rated Tensile Strength	63.8 kN	General Tests	IEC 60794-4-1 and IEEE 1138:2009
Modulus Of Elasticity	97 kN/mm ²	Installation & Constructional	IEEE 1138:2009
		ACS wires	IEC 61232 /JCS 1138:2003
		AA wires	IEC 60104 A
ELECTRICAL PROPERTIES			
DC Resistance at 20°C	0.316 Ohm/Km	Fault Current Capacity	112.5 kA ² .sec
Short Circuit Current Rating	15.0 kA for 0.5 Sec.	Temp. change from	20 to 200 °C
ENVIRONMENTAL PROPERTIES			
Coefficient of linear Expansion	18.3 × 10 ⁻⁶ 1/°C	Operating Temperature Range	- 40 °C to +85 °C
		Installation Temperature Range	- 30 °C to + 70 °C
OPTICAL UNIT			
Optical Fibre Colour:	Blue,Orange,Green,Brown,Slate,White,Red,Black,Yellow,Violet,Pink & Aqua OR Blue Bundle		
Fibre Identification :	Tubes with more than 12 fibers will follow the standard Ring Marking or Bundle Binders for 12F set		
PHYSICAL PARAMETERS			
Overall Diameter	14.80 ± 3% mm	Cable wteight	480 ± 5% Kg/Km
		Standard Cable length	3000 ± 5% Meters