

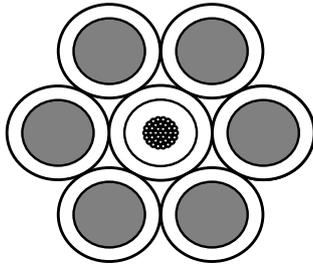


OPGW Cable Specifications

TGG

Cable Type: OPGW - 1C 1 / 48 (M81 / R51 - 66)

Cross Section:



Design:			
	Name	No	Material Dia.
Center	SUS Tube	1 / 48	4.20 mm
Layer1	40%ACSwire	6	4.15 mm
	AA(LHA2)wire	0	

Fiber type: 48xG.652D

Stranded:core and layer1 greased	
stranding direction of outer layer is "right" hand(Z-stranding)	
Cable Diameter	12.50 mm
Cable Weight	407 kg/km

Technical Data:	according to: IEEE 1138 standards	
Supporting Cross Section		81.16 mm ²
Section of ACS Wire / AA Wire	81.16 / 0.00 mm ²	
Rate Tensile Strength (RTS)		51.1 kN
Modulus of Elasticity (E-Modulus)		109.0 kN/mm ²
Thermal Elongation Coefficient		15.5 10 ⁻⁶ /°C
Permissible Maximum Working Stress(MAT) (40%RTS)		251.9 N/mm ²
Everyday Stress (EDS) (16%~25%RTS)	100.7	~ 157.4 N/mm ²
Strain Margin Stress (60%RTS)		377.8 N/mm ²
DC Resistance (20 °C)		0.538 Ω / km
Short Circuit Current (1s, 20°C~200°C)		8.10 kA
Short Circuit Current Capacity (20°C~200°C) (I ² t)		65.59 kA ² s
Minimum Bending Radius (installation)		≥ 313 mm
Installation Tensile Strength (≤20%RTS)		≤10.2 kN
Temperature Range:	Installation	-10°C ~ +50 °C
	Transportation and Operation	-40°C ~ +80 °C

Remarks: All Sizes and Values are Nominal Values

- 1 / 48 - Tubes / Fibers of Tube
- M81 - Supporting Cross Section
- R51 - Rate Tensile Strength (RTS)
- 66 - Short Circuit Current Capacity (20°C~200°C)

2018/8/7			OPGW	zjm_No:39N	Cathy
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