

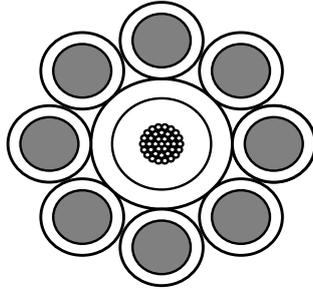


**OPGW Cable Specifications**

**TGG**

**Cable Type:** OPGW - 1C 1 / 72 ( M46 / R45 - 16 )

**Cross Section:**



**Fiber type:** 72xG.652D

<b>Design:</b>			
	Name	No	Material Dia.
Center	SUS Tube	1 / 72	4.60 mm
Layer1	27%ACSwire	8	2.70 mm
	AA(LHA2)wire	0	

Stranded:core and layer1 greased	
stranding direction of outer layer is "right" hand(Z-stranding)	
Cable Diameter	10.00 mm
Cable Weight	299 kg/km

<b>Technical Data:</b>	according to: IEEE 1138 standards	
Supporting Cross Section	45.80 mm <sup>2</sup>	
Section of ACS Wire / AA Wire	45.80 / 0.00 mm <sup>2</sup>	
Rate Tensile Strength (RTS)	44.5 kN	
Modulus of Elasticity (E-Modulus)	140.0 kN/mm <sup>2</sup>	
Thermal Elongation Coefficient	13.4 10 <sup>-6</sup> /°C	
Permissible Maximum Working Stress(MAT) (40%RTS)	388.8 N/mm <sup>2</sup>	
Everyday Stress (EDS) ( 16%~25%RTS)	155.5	~ 243.0 N/mm <sup>2</sup>
Strain Margin Stress (60%RTS)	583.2 N/mm <sup>2</sup>	
DC Resistance ( 20 °C)	1.414 Ω / km	
Short Circuit Current ( 1s, 20°C~200°C)	3.95 kA	
Short Circuit Current Capacity ( 20°C~200°C ) (I <sup>2</sup> t)	15.59 kA <sup>2</sup> s	
Minimum Bending Radius (installation)	≥ 250 mm	
Installation Tensile Strength (≤20%RTS)	≤8.9 kN	
<b>Temperature Range:</b>	Installation	-10°C ~ +50 °C
	Transportation and Operation	-40°C ~ +80 °C

Remarks: All Sizes and Values are Nominal Values

- 1 / 72 - Tubes / Fibers of Tube
- M46 - Supporting Cross Section
- R45 - Rate Tensile Strength (RTS)
- 16 - Short Circuit Current Capacity (20°C~200°C)

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