

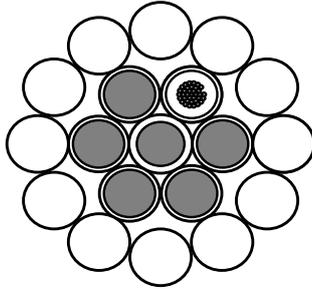


**OPGW Cable Specifications**

**TGG**

**Cable Type:** OPGW - 2S 1 / 36 ( M127 / R75 - 162 )

**Cross Section:**



<b>Design:</b>			
	Name	No	Material Dia.
Center	20%ACSwire	1	3.10 mm
Layer1	20%ACSwire	5	2.95 mm
	AA(LHA2)wire	0	
	SUS Tube	1 / 36	2.90 mm
Layer2	20%ACSwire	0	3.00 mm
	AA(LHA2)wire	12	

**Fiber type:** 36xG.652D

Stranded:core and layer1 greased	
stranding direction of outer layer is "right" hand(Z-stranding)	
Cable Diameter	15.00 mm
Cable Weight	532 kg/km

<b>Technical Data:</b>	according to: IEEE 1138 standards	
Supporting Cross Section	126.55 mm <sup>2</sup>	
Section of ACS Wire / AA Wire	41.72 / 84.82 mm <sup>2</sup>	
Rate Tensile Strength (RTS)	75.3 kN	
Modulus of Elasticity (E-Modulus)	97.0 kN/mm <sup>2</sup>	
Thermal Elongation Coefficient	17.5 10 <sup>-6</sup> /°C	
Permissible Maximum Working Stress(MAT) (40%RTS)	238.1 N/mm <sup>2</sup>	
Everyday Stress (EDS) ( 16%~25%RTS)	95.3	~ 148.8 N/mm <sup>2</sup>
Strain Margin Stress (60%RTS)	357.2 N/mm <sup>2</sup>	
DC Resistance ( 20 °C)	0.329 Ω / km	
Short Circuit Current ( 1s, 20°C~200°C)	12.72 kA	
Short Circuit Current Capacity ( 20°C~200°C ) (I <sup>2</sup> t)	161.80 kA <sup>2</sup> s	
Minimum Bending Radius (installation)	≥ 375 mm	
Installation Tensile Strength (≤20%RTS)	≤15.1 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 / 36 - Tubes / Fibers of Tube

M127 - Supporting Cross Section

R75 - Rate Tensile Strength (RTS)

162 - Short Circuit Current Capacity (20°C~200°C)

2018/8/7			OPGW	zjm_No:39N	Cathy
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