

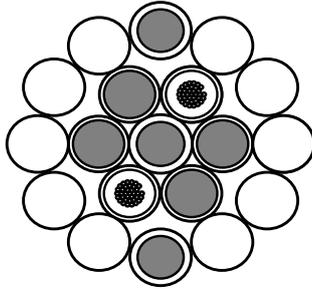


**OPGW Cable Specifications**

**TGG**

**Cable Type:** OPGW - 2S 2 / 36 ( M120 / R80 - 139 )

**Cross Section:**



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

<b>Design:</b>			
	Name	No	Material Dia.
Center	20%ACSwire	1	3.10 mm
Layer1	20%ACSwire	4	2.95 mm
	AA(LHA2)wire	0	
	SUS Tube	2 / 36	2.90 mm
Layer2	20%ACSwire	2	3.00 mm
	AA(LHA2)wire	10	

Stranded:core and layer1 greased	
stranding direction of outer layer is "right" hand(Z-stranding)	
Cable Diameter	15.00 mm
Cable Weight	562 kg/km

<b>Technical Data:</b>	according to: IEEE 1138 standards	
Supporting Cross Section		119.71 mm <sup>2</sup>
Section of ACS Wire / AA Wire	49.02 / 70.69 mm <sup>2</sup>	
Rate Tensile Strength (RTS)		80.0 kN
Modulus of Elasticity (E-Modulus)		104.7 kN/mm <sup>2</sup>
Thermal Elongation Coefficient		16.7 10 <sup>-6</sup> /°C
Permissible Maximum Working Stress(MAT) (40%RTS)		267.2 N/mm <sup>2</sup>
Everyday Stress (EDS) ( 16%~25%RTS)	106.9	~ 167.0 N/mm <sup>2</sup>
Strain Margin Stress (60%RTS)		400.8 N/mm <sup>2</sup>
DC Resistance ( 20 °C)		0.370 Ω / km
Short Circuit Current ( 1s, 20°C~200°C)		11.80 kA
Short Circuit Current Capacity ( 20°C~200°C ) (I <sup>2</sup> t)		139.30 kA <sup>2</sup> s
Minimum Bending Radius (installation)		≥ 375 mm
Installation Tensile Strength (≤20%RTS)		≤16.0 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

2 / 36 - Tubes / Fibers of Tube

M120 - Supporting Cross Section

R80 - Rate Tensile Strength (RTS)

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

2018/8/7			OPGW	zjm_No:39N	Cathy
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