

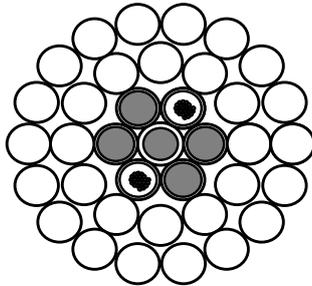


**OPGW Cable Specifications**

**TGG**

**Cable Type:** OPGW - 3S 2 / 24 ( M179 / R77 - 350 )

**Cross Section:**



**Fiber type:** 48xG.652D

<b>Design:</b>			
	Name	No	Material Dia.
Center	20%ACSwire	1	2.70 mm
Layer1	20%ACSwire	4	2.55 mm
	AA(LHA2)wire	0	
	SUS Tube	2 / 24	2.50 mm
Layer2	20%ACSwire	0	2.55 mm
	AA(LHA2)wire	12	
Layer3	20%ACSwire	0	2.55 mm
	AA(LHA2)wire	18	

Stranded:core and layer1 greased	
stranding direction of outer layer is "right" hand(Z-stranding)	
Cable Diameter	18.00 mm
Cable Weight	638 kg/km

<b>Technical Data:</b>	according to: IEEE 1138 standards	
Supporting Cross Section	179.37 mm <sup>2</sup>	
Section of ACS Wire / AA Wire	26.15 / 153.21 mm <sup>2</sup>	
Rate Tensile Strength (RTS)	76.7 kN	
Modulus of Elasticity (E-Modulus)	79.1 kN/mm <sup>2</sup>	
Thermal Elongation Coefficient	20.0 10 <sup>-6</sup> /°C	
Permissible Maximum Working Stress(MAT) (40%RTS)	171.1 N/mm <sup>2</sup>	
Everyday Stress (EDS) ( 16%~25%RTS)	68.5	~ 107.0 N/mm <sup>2</sup>
Strain Margin Stress (60%RTS)	256.7 N/mm <sup>2</sup>	
DC Resistance ( 20 °C)	0.204 Ω / km	
Short Circuit Current ( 1s, 20°C~200°C)	18.71 kA	
Short Circuit Current Capacity ( 20°C~200°C ) (I <sup>2</sup> t)	350.05 kA <sup>2</sup> s	
Minimum Bending Radius (installation)	≥ 450 mm	
Installation Tensile Strength (≤20%RTS)	≤15.3 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 / 24 - Tubes / Fibers of Tube

M179 - Supporting Cross Section

R77 - Rate Tensile Strength (RTS)

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

2018/8/7			OPGW	zjm_No:39N	Cathy
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