

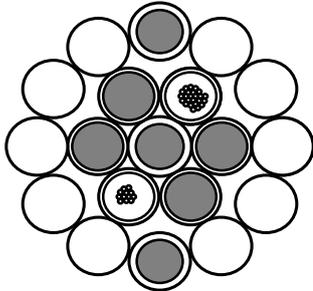


## OPGW Cable Specifications

# T G G

**Cable Type:** OPGW - 2S 2 / 24+12 ( M86 / R58 - 73 )

**Cross Section:**



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

Design:			
	Name	No	Material Dia.
Center	20%ACSwire	1	2.65 mm
	20%ACSwire	4	2.50 mm
Layer1	AA(LHA2)wire	0	
	SUS Tube	2 / 24+12	2.40 mm
Layer2	20%ACSwire	2	2.55 mm
	AA(LHA2)wire	10	

Stranded:core and layer1 greased	
stranding direction of outer layer is "right" hand(Z-stranding)	
Cable Diameter	12.75 mm
Cable Weight	417 kg/km

<b>Technical Data:</b>	according to: IEEE 1138 standards	
	Supporting Cross Section	86.44 mm <sup>2</sup>
	Section of ACS Wire / AA Wire	35.36 / 51.07 mm <sup>2</sup>
	Rate Tensile Strength (RTS)	57.7 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)	267.1 N/mm <sup>2</sup>
	Everyday Stress (EDS) ( 16%~25%RTS)	106.8 ~ 166.9 N/mm <sup>2</sup>
	Strain Margin Stress (60%RTS)	400.6 N/mm <sup>2</sup>
	DC Resistance ( 20 °C)	0.513 Ω /km
	Short Circuit Current ( 1s, 20°C~200°C)	8.52 kA
	Short Circuit Current Capacity ( 20°C~200°C) (I <sup>2</sup> t)	72.64 kA <sup>2</sup> s
	Minimum Bending Radius (installation)	≥ 319 mm
	Installation Tensile Strength (≤20%RTS)	≤11.5 kN
	<b>Temperature Range:</b>	Installation
Transportation and Operation		-40°C ~ +80 °C

Remarks: All Sizes and Values are Nominal Values

2 / 24+12 - Tubes / Fibers of Tube

M86 - Supporting Cross Section

R58 - Rate Tensile Strength (RTS)

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

2018/8/7		OPGW	zjm_No:39N	Cathy
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