

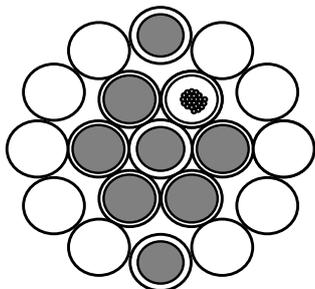


OPGW Cable Specifications

TGG

Cable Type: OPGW - 2S 1 / 24 (M111 / R78 - 118)

Cross Section:



Fiber type: 24xG.652D

Design:			
	Name	No	Material Dia.
Center	20%ACSwire	1	2.90 mm
Layer1	20%ACSwire	5	2.80 mm
	AA(LHA2)wire	0	
	SUS Tube	1 / 24	2.70 mm
Layer2	20%ACSwire	2	2.80 mm
	AA(LHA2)wire	10	

Stranded:core and layer1 greased	
stranding direction of outer layer is "right" hand(Z-stranding)	
Cable Diameter	14.10 mm
Cable Weight	522 kg/km

Technical Data:	according to: IEEE 1138 standards	
Supporting Cross Section	111.28 mm ²	
Section of ACS Wire / AA Wire	49.71 / 61.58 mm ²	
Rate Tensile Strength (RTS)	78.1 kN	
Modulus of Elasticity (E-Modulus)	108.3 kN/mm ²	
Thermal Elongation Coefficient	16.3 10 ⁻⁶ /°C	
Permissible Maximum Working Stress(MAT) (40%RTS)	280.8 N/mm ²	
Everyday Stress (EDS) (16%~25%RTS)	112.3	~ 175.5 N/mm ²
Strain Margin Stress (60%RTS)	421.2 N/mm ²	
DC Resistance (20 °C)	0.411 Ω / km	
Short Circuit Current (1s, 20°C~200°C)	10.86 kA	
Short Circuit Current Capacity (20°C~200°C) (I ² t)	118.01 kA ² s	
Minimum Bending Radius (installation)	≥ 353 mm	
Installation Tensile Strength (≤20%RTS)	≤15.6 kN	
Temperature Range:	Installation	-10°C ~ +50 °C
	Transportation and Operation	-40°C ~ +80 °C

Remarks: All Sizes and Values are Nominal Values

1 / 24 - Tubes / Fibers of Tube

M111 - Supporting Cross Section

R78 - Rate Tensile Strength (RTS)

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

2018/8/7			OPGW	zjm_No:39N	Cathy
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