

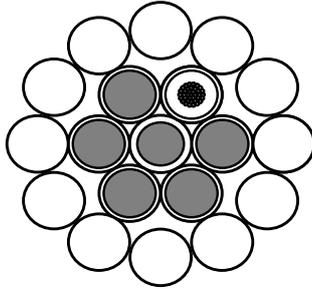


OPGW Cable Specifications

TGG

Cable Type: OPGW - 2S 1 / 48 (M150 / R89 - 226)

Cross Section:



Fiber type: 48xG.652D

Design:			
	Name	No	Material Dia.
Center	20%ACSwire	1	3.30 mm
Layer1	20%ACSwire	5	3.25 mm
	AA(LHA2)wire	0	
	SUS Tube	1 / 48	3.20 mm
Layer2	20%ACSwire	0	3.25 mm
	AA(LHA2)wire	12	

Stranded:core and layer1 greased	
stranding direction of outer layer is "right" hand(Z-stranding)	
Cable Diameter	16.30 mm
Cable Weight	628 kg/km

Technical Data:	according to: IEEE 1138 standards	
Supporting Cross Section	149.58 mm ²	
Section of ACS Wire / AA Wire	50.03 / 99.55 mm ²	
Rate Tensile Strength (RTS)	89.5 kN	
Modulus of Elasticity (E-Modulus)	97.4 kN/mm ²	
Thermal Elongation Coefficient	17.4 10 ⁻⁶ /°C	
Permissible Maximum Working Stress(MAT) (40%RTS)	239.3 N/mm ²	
Everyday Stress (EDS) (16%~25%RTS)	95.7	~ 149.5 N/mm ²
Strain Margin Stress (60%RTS)	358.9 N/mm ²	
DC Resistance (20 °C)	0.279 Ω / km	
Short Circuit Current (1s, 20°C~200°C)	15.02 kA	
Short Circuit Current Capacity (20°C~200°C) (I²t)	225.58 kA ² s	
Minimum Bending Radius (installation)	≥ 408 mm	
Installation Tensile Strength (≤20%RTS)	≤17.9 kN	
Temperature Range:	Installation	-10°C ~ +50 °C
	Transportation and Operation	-40°C ~ +80 °C

Remarks: All Sizes and Values are Nominal Values

- 1 / 48 - Tubes / Fibers of Tube
- M150 - Supporting Cross Section
- R89 - Rate Tensile Strength (RTS)
- 226 - Short Circuit Current Capacity (20°C~200°C)

2018/8/7			OPGW	zjm_No:39N	Cathy
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