

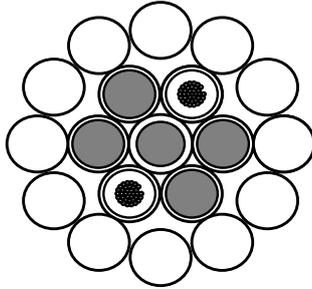


OPGW Cable Specifications

TGG

Cable Type: OPGW - 2S 2 / 36 (M129 / R73 - 171)

Cross Section:



Fiber type: 72xG.652D

Design:			
	Name	No	Material Dia.
Center	20%ACSwire	1	3.25 mm
Layer1	20%ACSwire	4	3.10 mm
	AA(LHA2)wire	0	
	SUS Tube	2 / 36	3.00 mm
Layer2	20%ACSwire	0	3.10 mm
	AA(LHA2)wire	12	

Stranded:core and layer1 greased	
stranding direction of outer layer is "right" hand(Z-stranding)	
Cable Diameter	15.65 mm
Cable Weight	546 kg/km

Technical Data:	according to: IEEE 1138 standards	
Supporting Cross Section		129.06 mm ²
Section of ACS Wire / AA Wire	38.49 / 90.57 mm ²	
Rate Tensile Strength (RTS)		73.1 kN
Modulus of Elasticity (E-Modulus)		93.9 kN/mm ²
Thermal Elongation Coefficient		17.9 10 ⁻⁶ /°C
Permissible Maximum Working Stress(MAT) (40%RTS)		226.7 N/mm ²
Everyday Stress (EDS) (16%~25%RTS)	90.7	~ 141.7 N/mm ²
Strain Margin Stress (60%RTS)		340.0 N/mm ²
DC Resistance (20 °C)		0.315 Ω / km
Short Circuit Current (1s, 20°C~200°C)		13.06 kA
Short Circuit Current Capacity (20°C~200°C) (I ² t)		170.69 kA ² s
Minimum Bending Radius (installation)		≥ 391 mm
Installation Tensile Strength (≤20%RTS)		≤14.6 kN
Temperature Range:	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

M129 - Supporting Cross Section

R73 - Rate Tensile Strength (RTS)

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

2018/8/7			OPGW	zjm_No:39N	Cathy
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