

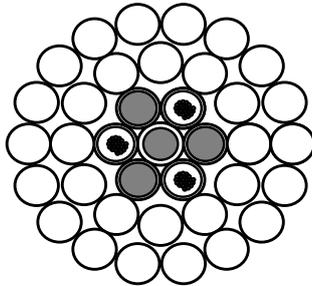


OPGW Cable Specifications

TGG

Cable Type: OPGW - 3S 3 / 24 (M174 / R71 - 333)

Cross Section:



Fiber type: 72xG.652D

Design:			
	Name	No	Material Dia.
Center	20%ACSwire	1	2.70 mm
Layer1	20%ACSwire	3	2.55 mm
	AA(LHA2)wire	0	
	SUS Tube	3 / 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	624 kg/km

Technical Data:	according to: IEEE 1138 standards	
Supporting Cross Section	174.26 mm ²	
Section of ACS Wire / AA Wire	21.05 / 153.21 mm ²	
Rate Tensile Strength (RTS)	70.6 kN	
Modulus of Elasticity (E-Modulus)	76.7 kN/mm ²	
Thermal Elongation Coefficient	20.4 10 ⁻⁶ /°C	
Permissible Maximum Working Stress(MAT) (40%RTS)	162.0 N/mm ²	
Everyday Stress (EDS) (16%~25%RTS)	64.8	~ 101.3 N/mm ²
Strain Margin Stress (60%RTS)	243.0 N/mm ²	
DC Resistance (20 °C)	0.206 Ω / km	
Short Circuit Current (1s, 20°C~200°C)	18.26 kA	
Short Circuit Current Capacity (20°C~200°C) (I ² t)	333.25 kA ² s	
Minimum Bending Radius (installation)	≥ 450 mm	
Installation Tensile Strength (≤20%RTS)	≤14.1 kN	
Temperature Range:	Installation	-10°C ~ +50 °C
	Transportation and Operation	-40°C ~ +80 °C

Remarks: All Sizes and Values are Nominal Values

3 / 24 - Tubes / Fibers of Tube

M174 - Supporting Cross Section

R71 - Rate Tensile Strength (RTS)

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

2018/8/7			OPGW	zjm_No:39N	Cathy
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