

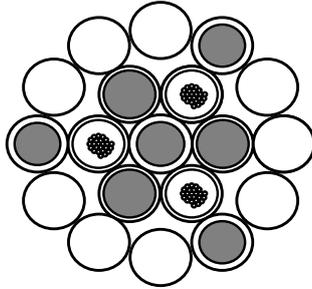


OPGW Cable Specifications

TGG

Cable Type: OPGW - 2S 3 / 24 (M99 / R70 - 94)

Cross Section:



Fiber type: 72xG.652D

Design:			
	Name	No	Material Dia.
Center	20%ACSwire	1	2.90 mm
Layer1	20%ACSwire	3	2.80 mm
	AA(LHA2)wire	0	
	SUS Tube	3 / 24	2.70 mm
Layer2	20%ACSwire	3	2.80 mm
	AA(LHA2)wire	9	

Stranded:core and layer1 greased	
stranding direction of outer layer is "right" hand(Z-stranding)	
Cable Diameter	14.10 mm
Cable Weight	504 kg/km

Technical Data:	according to: IEEE 1138 standards	
Supporting Cross Section		98.97 mm ²
Section of ACS Wire / AA Wire	43.55 / 55.42 mm ²	
Rate Tensile Strength (RTS)		70.4 kN
Modulus of Elasticity (E-Modulus)		107.7 kN/mm ²
Thermal Elongation Coefficient		16.4 10 ⁻⁶ /°C
Permissible Maximum Working Stress(MAT) (40%RTS)		284.5 N/mm ²
Everyday Stress (EDS) (16%~25%RTS)	113.8	~ 177.8 N/mm ²
Strain Margin Stress (60%RTS)		426.7 N/mm ²
DC Resistance (20 °C)		0.459 Ω / km
Short Circuit Current (1s, 20°C~200°C)		9.68 kA
Short Circuit Current Capacity (20°C~200°C) (I ² t)		93.70 kA ² s
Minimum Bending Radius (installation)		≥ 353 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

M99 - Supporting Cross Section

R70 - Rate Tensile Strength (RTS)

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

2018/8/7			OPGW	zjm_No:39N	Cathy
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