

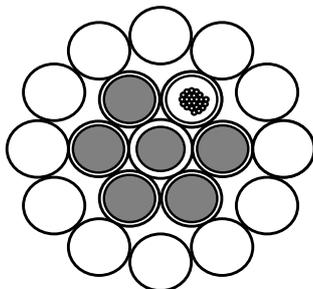


OPGW Cable Specifications

TGG

Cable Type: OPGW - 2S 1 / 24 (M91 / R54 - 84)

Cross Section:



Fiber type: 24xG.652D

Design:			
	Name	No	Material Dia.
Center	20%ACSwire	1	2.65 mm
Layer1	20%ACSwire	5	2.50 mm
	AA(LHA2)wire	0	
	SUS Tube	1 / 24	2.40 mm
Layer2	20%ACSwire	0	2.55 mm
	AA(LHA2)wire	12	

Stranded:core and layer1 greased	
stranding direction of outer layer is "right" hand(Z-stranding)	
Cable Diameter	12.75 mm
Cable Weight	389 kg/km

Technical Data:	according to: IEEE 1138 standards	
Supporting Cross Section		91.34 mm ²
Section of ACS Wire / AA Wire	30.06 / 61.28 mm ²	
Rate Tensile Strength (RTS)		54.3 kN
Modulus of Elasticity (E-Modulus)		96.9 kN/mm ²
Thermal Elongation Coefficient		17.5 10 ⁻⁶ /°C
Permissible Maximum Working Stress(MAT) (40%RTS)		237.9 N/mm ²
Everyday Stress (EDS) (16%~25%RTS)	95.2	~ 148.7 N/mm ²
Strain Margin Stress (60%RTS)		356.9 N/mm ²
DC Resistance (20 °C)		0.455 Ω / km
Short Circuit Current (1s, 20°C~200°C)		9.18 kA
Short Circuit Current Capacity (20°C~200°C) (I ² t)		84.33 kA ² s
Minimum Bending Radius (installation)		≥ 319 mm
Installation Tensile Strength (≤20%RTS)		≤10.9 kN
Temperature Range:	Installation	-10°C ~ +50 °C
	Transportation and Operation	-40°C ~ +80 °C

Remarks: All Sizes and Values are Nominal Values

1 / 24 - Tubes / Fibers of Tube

M91 - Supporting Cross Section

R54 - Rate Tensile Strength (RTS)

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

2018/8/7			OPGW	zjm_No:39N	Cathy
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