

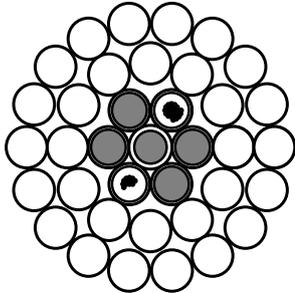


OPGW Cable Specifications

T G G

Cable Type: OPGW - 3S 2 / 24+12 (M179 / R77 - 350)

Cross Section:



Fiber type: 36xG.652D

Design:			
	Name	No	Material Dia.
Center	20%ACSwire	1	2.70 mm
	20%ACSwire	4	2.55 mm
Layer1	AA(LHA2)wire	0	
	SUS Tube	2 / 24+12	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	638 kg/km

Technical Data:	according to: IEEE 1138 standards	
	Supporting Cross Section	179.37 mm ²
	Section of ACS Wire / AA Wire	26.15 / 153.21 mm ²
	Rate Tensile Strength (RTS)	76.7 kN
	Modulus of Elasticity (E-Modulus)	79.1 kN/mm ²
	Thermal Elongation Coefficient	20.0 10 ⁻⁶ /°C
	Permissible Maximum Working Stress(MAT) (40%RTS)	171.1 N/mm ²
	Everyday Stress (EDS) (16%~25%RTS)	68.5 ~ 107.0 N/mm ²
	Strain Margin Stress (60%RTS)	256.7 N/mm ²
	DC Resistance (20 °C)	0.204 Ω / km
	Short Circuit Current (1s, 20°C~200°C)	18.71 kA
	Short Circuit Current Capacity (20°C~200°C) (I _{2t})	350.05 kA ² s
	Minimum Bending Radius (installation)	≥ 450 mm
	Installation Tensile Strength (≤20%RTS)	≤15.3 kN
	Temperature Range:	Installation
Transportation and Operation		-40°C ~ +80 °C

Remarks: All Sizes and Values are Nominal Values

2 / 24+12 - Tubes / Fibers of Tube

M179 - Supporting Cross Section

R77 - Rate Tensile Strength (RTS)

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

2018/8/7		OPGW	zjm_No:39N	Cathy
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