

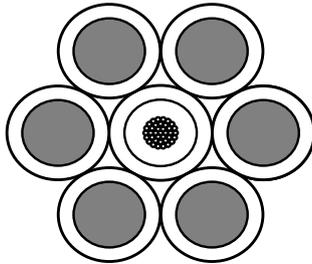


OPGW Cable Specifications

TGG

Cable Type: OPGW - 1C 1 / 72 (M81 / R51 - 66)

Cross Section:



Fiber type: 72xG.652D

| Design: | | | |
|----------------|--------------|--------|---------------|
| | Name | No | Material Dia. |
| Center | SUS Tube | 1 / 72 | 4.20 mm |
| Layer1 | 40%ACSwire | 6 | 4.15 mm |
| | AA(LHA2)wire | 0 | |
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|---|-----------|
| Stranded:core and layer1 greased | |
| stranding direction of outer layer is "right" hand(Z-stranding) | |
| Cable Diameter | 12.50 mm |
| Cable Weight | 407 kg/km |

| | | |
|---|-----------------------------------|---------------------------|
| Technical Data: | according to: IEEE 1138 standards | |
| Supporting Cross Section | | 81.16 mm ² |
| Section of ACS Wire / AA Wire | 81.16 / 0.00 mm ² | |
| Rate Tensile Strength (RTS) | | 51.1 kN |
| Modulus of Elasticity (E-Modulus) | | 109.0 kN/mm ² |
| Thermal Elongation Coefficient | | 15.5 10 ⁻⁶ /°C |
| Permissible Maximum Working Stress(MAT) (40%RTS) | | 251.9 N/mm ² |
| Everyday Stress (EDS) (16%~25%RTS) | 100.7 | ~ 157.4 N/mm ² |
| Strain Margin Stress (60%RTS) | | 377.8 N/mm ² |
| DC Resistance (20 °C) | | 0.538 Ω / km |
| Short Circuit Current (1s, 20°C~200°C) | | 8.10 kA |
| Short Circuit Current Capacity (20°C~200°C) (I²t) | | 65.59 kA²s |
| Minimum Bending Radius (installation) | | ≥ 313 mm |
| Installation Tensile Strength (≤20%RTS) | | ≤10.2 kN |
| Temperature Range: | Installation | -10°C ~ +50 °C |
| | Transportation and Operation | -40°C ~ +80 °C |

Remarks: All Sizes and Values are Nominal Values

1 / 72 - Tubes / Fibers of Tube

M81 - Supporting Cross Section

R51 - Rate Tensile Strength (RTS)

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

| | | | | | |
|----------|--|--|------|------------|-------|
| 2018/8/7 | | | OPGW | zjm_No:39N | Cathy |
|----------|--|--|------|------------|-------|