

SOLARpower Alu-ATA

Low voltage cable, halogen free



NEW

SOLARpower Alu-ATA

Applications

Halogen free. UV resistant low voltage cable. Especially well suited for outdoor applications and burial directly in the ground thanks to the very robust outer sheath and the aluminium shield.

Construction

- Conductor Aluminium stranded wire, compacted. class 2
- Insulation XLPE. halogen free
- Armouring Aluminium tube / extra hard compound
- Jacket Copolymer, halogen free
termite and rodent protection
- Jacket colour ● black

Electrical characteristics

| | |
|------------------------------|---|
| Max. voltage acc. to EN50618 | $U_m = 1800 \text{ V DC}$ |
| Rated voltage | $U_0/U = 1500 \text{ V} / 1500 \text{ V DC}$ $U_0/U = 1000 / 1000 \text{ V AC}, 50\text{Hz}$ |
| Test voltage | 6500 V, 50 Hz, 5 min. (Conductor / Shielding) |



Advantages

- Halogen-free
- XLPE Insulation and termigon jacket
- Termite and rodent protection
- UV resistant
- Transversal watertight
- Simple feed, low friction of the sheath
- Aluminium shield, suitable as grounding and protective earth and for EMC shielding

Thermal characteristics

| | |
|---|---|
| Operating temperature | -40 °C up to +90 °C -40 °F up to +194 °F |
| Ambient temperature | -40 °C up to +90 °C |
| Min. permissible installation temperature | -10 °C |
| Max. short circuit temp. | +250 °C, +482 °F / 5 s |

Bending radius

| | |
|--------------------|---------------------------|
| Fixed installation | $> 12 \times \varnothing$ |
|--------------------|---------------------------|

Standards / Material properties

- Halogen free: IEC 60754-1; EN 50267-2-1
- Based on BS 5467 and EN50618

Current rating

>> see page 26 below

| Construction | Conductor- \varnothing | Outer- \varnothing | Resistance max.* | Voltage drop* | Weight | Order no. |
|------------------------|--------------------------|----------------------|------------------|---------------|--------|-----------|
| $n \times \text{mm}^2$ | mm | mm | m Ω /m | mV/Am | kg/km | |
| 1×50/18 | 8.16 | 16.80 | 0.641 | 1.282 | 315 | 309014 |
| 1×70/20 | 9.90 | 18.70 | 0.443 | 0.886 | 402 | 309015 |
| 1×95/22 | 11.50 | 20.50 | 0.320 | 0.640 | 500 | 309016 |
| 1×120/24 | 12.85 | 22.05 | 0.253 | 0.506 | 600 | 309526 |
| 1×150/26 | 14.20 | 24.40 | 0.206 | 0.412 | 717 | 308457 |
| 1×185/28 | 16.40 | 27.20 | 0.164 | 0.328 | 882 | 309527 |
| 1×240/31 | 18.30 | 29.30 | 0.125 | 0.250 | 1069 | 309528 |
| 1×300/33 | 20.45 | 31.85 | 0.100 | 0.200 | 1282 | 309529 |
| 1×400/39 | 23.66 | 36.10 | 0.0778 | 0.1556 | 1648 | 309530 |
| 1×500/43 | 26.40 | 39.40 | 0.0605 | 0.1210 | 2016 | 309905 |

* at 20 °C

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Accessories

Advantages

- Includes all materials for the installation
- Reliable and harmonized connection and grounding concept
- With accurate use, acc. to the instruction manual, no contact corrosion due to durable sealing
- Consistently safe contact with the aluminium conductor and the earthing screen
- Grounding wire in tinned copper braid with water blocking



NEW

SOLARpower Alu-ATA Terminal and grounding kit

Applications

The set includes all materials which are required for a safe, permanent connection and a proper grounding.

Content

- Instruction manual
- Pfisterer cable lug M12 with 13 mm hole
- Assembled grounding wire 0.5 m
- 2 x sealing strip 152 mm
- Roll springs
- Heat-shrink tube MDT-A, black colour



| Article | Order no. |
|--|-----------|
| SOLARpower Alu-ATA 50-95 Terminal and grounding kit | 310767 |
| SOLARpower Alu-ATA 95-240 Terminal and grounding kit | 310768 |
| SOLARpower Alu-ATA 300 Terminal and grounding kit | 310769 |

Terminal and grounding kit fully assembled

