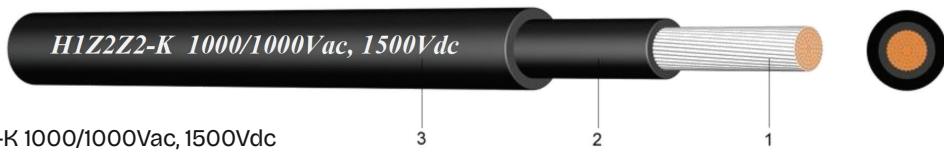


Cables for Use in Photovoltaic Systems, Resistant to Extreme Temperatures, with Insulation and Sheath of Cross-Linked Silicone Rubber, Rated Voltage Uo/U: 1000/1000 Vac, 1500 Vdc, (Umax: 1800 V)



Section:



Packing:



Coil



Plywood Drum



Wood Drum



Construction

- 1 – Flexible tinned copper conductor class 5, according to EN 60228
- 2 – Crosslinked silicone rubber insulation type EI2 according to EN 50363-1, heat-resistant, halogen-free, with increased flame retardancy and reduced smoke emission
- 3 – Crosslinked silicone rubber sheath type EM9 according to EN 50363-2-1heat-resistant, halogen-free, with increased flame retardancy and reduced smoke emission



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Technical data

Reference standard

SR EN 50618:2015

Nominal operating voltage Uo/U

1000/1000 Vac, 1500 Vdc

Test voltage

according to EN 50395, 5 kVDC, in water, for 5 minutes

Resistance to flame propagation

according to EN 60332-1-2

Resistance to ozon

according to SR EN 50396

Resistance to UV radiation

according to SR EN 50396

Thermal endurance

according to SR EN 60216-1

Ambient temperature when
installing the cable

- 10 °C ÷ +50 °C

Ambient temperature
during cable operation

- 60 °C ÷ +180 °C

Maximum permissible conductor
temperature under normal
operating conditions

+180 °C

Maximum temperature of objects
it can come into contact with

+180 °C

Marking

according to SR EN 60216-1

Minimum bending radius

4 x outer diameter of the cable

Available colors

black, red, blue

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Application

- In photovoltaic systems, for interconnecting different elements;
- These cables ensure an optimal connection between photovoltaic panels and between panels and inverter, they can be installed outdoors, indoors, or buried in the ground (with adequate mechanical protection);
- Due to the double insulation, these cables can be used in safety class II installations, exposed to extreme temperatures (- 60 °C ÷ +180 °C);
- The outer surface of these cables can come into contact with objects (or parts thereof) having a temperature of +180 °C, and for a short time of +250 °C;
- These cables are tested for thermal endurance, the period of use under normal conditions is at least 25 years;
- These cables have excellent resistance to ozone, atmospheric oxygen and UV radiation, ensuring long-term performance in outdoor and industrial environments, without significant degradation of the insulation and sheath material;
- These cables do not spread flame and do not sustain combustion;
- This product complies with the EC Low Voltage Directive: "Low-Voltage Directive 2014/35/EU";
- This product falls under Class Eca, regarding reaction to fire, in the context of system 3 of attestation of conformity and marking, under the Construction Products Regulation 305/2011/EU;
- Packaging: coils, drums, cardboard boxes;

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Nominal cross-section of the copper conductor (mm ²)	Average exterior dimensions		Maximal electrical resistance at 20 °C Ω/km
	Lower limit (mm)	Upper limit (mm)	
2.5	4.9	5.3	8.21
4	5.4	5.8	5.09
6	5.9	6.3	3.39
10	7.0	7.4	1.95
16	8.5	9.2	1.24
25	10.2	10.9	0.795
35	11.3	12.0	0.565

NOTE : All dimensions are subject to a manufacturing tolerance of ±5%.