

H1Z2Z2-K

Solar cables

material: XLPE tipology: SINGLECORE



Applications: Photovoltaic Cables

Conditions of employment

The single core H1Z2Z2-K cable represents a right solution to link the solar cellars between them or to wire with frequency converters and terminal boards. The H1Z2Z2-K cable guarantees good resistance to UV-rays and various weather conditions. The wide working temperature range allows the use also in extreme conditions, avoiding deterioration caused by heat and permitting a right use of the fotovoltaic panel in every season.

Type of electrical conductor: Flexible tinned copper

Main rule: EN 50618

Conductor: EN 60228; IEC 60228

Self-extinguishing: EN 60332-1-2; IEC 60332-1-2

Ozone resistance: EN 50396 8.1.3

Description

Low smoke halogen-free, flexible, single-core power cables with cross-linked insulation and sheath.

Technical Specifications

| | |
|-----------------------------|---|
| Review number | n. 3 - 18/2/2019 |
| Nominal tension | 1,0/1,0 kVca - 1,5 kVdc |
| Type of insulation | Compound conforming to EN 50618 |
| Type of outer sheath | Compound conforming to EN 50618 |
| Color of the outer sheath | Black, blue, red |
| Operating temperature | -40° C +90° C |
| Short circuit temperature | Max 250° C 5 sec °C |
| Test voltage | 6500 Vac - 15000 Vdc |
| Cable marking | ELETTRO BRESCIA H1Z2Z2-K (I/II)* 1xsect. mm ² TÜV Rheinland Reg. Nr. R (60109330/60108022)* Dca- s2,d2,a1 max 1,8KVdc |
| Minimum radius of curvature | 4 times the cable diameter for fixed and mobile laying. |
| Insulation tolerance | ± 0,1 |
| Sheath tolerance | ± 0,2 |

Documents::

[Certificate](#)

[Certificate](#)

[DoP00001 H1Z2Z2-K](#)

[DoP00015 H1Z2Z2-K](#)

Sections

| Nominal section | Max wire diameter | Conductor diameter | Insulation thickness | Average sheath thickness | Average diameter $\pm 0,1$ | Copper electric resistance 20°C | Indicative weight | CU Factor |
|--------------------------|-------------------|--------------------|----------------------|--------------------------|----------------------------|---------------------------------|-------------------|-----------|
| (Nxmm ²) | (mm) | (mm) | (mm) | (mm) | (mm) | (ohm/km) | (kg/km) | (kg/km) |
| 1x2,50 | 0,25 | 0,000 | 0,75 | 0,80 | 5.1 | 8,21 | 47 | 24 |
| 1x4,00 | 0,30 | 0,000 | 0,72 | 0,80 | 5.4 | 5,09 | 58 | 38,4 |
| 1x6,00 | 0,30 | 0,000 | 0,74 | 0,80 | 6.0 | 3,39 | 78 | 57,6 |
| 1x10,00 | 0,40 | 0,000 | 0,73 | 0,80 | 7.0 | 1,95 | 125 | 96 |
| 1x16,00 | 0,40 | 0,000 | 0,74 | 0,90 | 8.2 | 1,24 | 184 | 153,6 |

Note:

The manufacturer reserves the right to modify all or part of the data shown in this catalog

Refer to the CEI EN 50565 standard series as a guide to the use of cables with rated voltage not exceeding 450/750 V (U₀ / U) and to the CEI 20-92 standard as a guide for handling and storing wooden cable reels electric.

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