

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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