

H1Z2Z2-K

Solar cables

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



TECHNICAL DATA

Nominal tension	1,0/1,0 kVac - 1,5 kVdc
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
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	+250° C on the conductor (max 5 sec.)
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.
Notes	* Markings depending on raw materials. 16 mm ² version only for H1Z2Z2-K I.

REFERENCES STANDARDS

Main rule	EN 50618
UV	EN 50618
Conductor	EN 60228; IEC 60228
Self-extinguishing	EN 60332-1-2; IEC 60332-1-2
Ozone	EN 50396 8.1.3

DIMENSIONS

Nominal section	Wires max diameter	Conductor diameter	Insulation thickness	Insulation diameter \pm 0,1	Minimum average external diameter	Medium outer diameter \pm 0,2	Electrical resistance 20°C	Approximate weight	CU Factor
(Nxmm ²)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω /km)	(kg/km)	(kg/km)
1x2,50	0,25	N/A	0,75	3,50	0,80	5,1	8,2100	47,00	24,0000
1x4,00	0,30	N/A	0,72	3,80	0,80	5,4	5,0900	58,00	38,4000
1x6,00	0,30	N/A	0,74	4,40	0,80	6,0	3,3900	78,00	57,6000
1x10,00	0,40	N/A	0,73	5,40	0,80	7,0	1,9500	125,00	96,0000
1x16,00	0,40	N/A	0,74	6,40	0,90	8,2	1,2400	184,00	153,6000

CORES IDENTIFICATION

Cores number	Insulation colour sequence
1	NA

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

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