

H1Z2Z2-K

Solar cables

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



Technical data

Nominal voltage	1,0/1,0 kVca - 1,5 kVdc
Applications/Usage conditions	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.
Conductor	Flexible tinned copper
Insulation type	Compound conforming to EN 50618
Sheath type	Compound conforming to EN 50618
Sheath colour	Black, blue, red
Operating temperatures	-40° C +90° C
Short circuit temperature	Max 250° C 5 sec
Test voltage	6500 Vac - 15000 Vdc
Cable markings	ELETTRO BRESCIA H1Z2Z2-K I 1xsect. mm ² TÜV Rheinland Reg. Nr. R 60109330 CPR FIRE CLASS Dca-s2,d2,a1 max 1,8KVdc
Minimum bending radius	4 times the cable diameter for fixed and mobile laying.
Notes	Direct burial: according to Impact-Resistance Test UL 854.23 and Crushing-Resistance Test UL 854.24. Presence of water: AD8 category according to EN 50525-2-21 Annex D & Annex E (in house test only for H1Z2Z2-K I): 100 days at 2,5 kV in water at 50±2° C.

Standard references

Main standard	EN 50618
UV Resistance	EN 50618
Conductor	EN 60228; IEC 60228
Self-Extinguishing	EN 60332-1-2; IEC 60332-1-2
Ozone resistance	EN 50396 8.1.3
Water resistance	EN 50525-2-21 "Annex D & Annex E"

Dimensions

Cross section	Wires max diameter	Conductor diameter	Core thickness	Core diameter ± 0,1	Sheath thickness	Medium outer diameter ± 0,2	Electrical resistance at 20° C	Cable approx. weight	Cu factor
(Nxmm ²)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(Ω/km)	(kg/km)	(Kg/km)
1x2,50	0,250	N/A	0,75	3,50	0,80	5,1	8,2100	47,00	24,00
1x4,00	0,300	N/A	0,72	3,80	0,80	5,4	5,0900	58,00	38,40
1x6,00	0,300	N/A	0,74	4,40	0,80	6,0	3,3900	78,00	57,60
1x10,00	0,400	N/A	0,73	5,40	0,80	7,0	1,9500	125,00	96,00
1x16,00	0,400	N/A	0,74	6,40	0,90	8,2	1,2400	184,00	153,60

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