



H1Z2Z2-K



Reaction to Fire CPR: Eca

Single-core power cables for fixed photovoltaic systems, rubber insulation type Z2, rubber sheath type Z2, with flexible tinned conductors. Resistant to flame propagation having low emission of smoke and toxic and corrosive gases when exposed to fire.

Rated voltage

Uo/U 0,6/1 kV a.c.

Maximum voltage

1,8 kV d.c. also to earth – 1,2 kV a.c.

Standards

EN 50618, EN 60228, EN 50395, EN 50396, EN 60811-403, EN 60062-2-78, EN 60216-1, EN 60216-2, EN 61034-2, EN 60332-1-2, EN 50525-1, EN 50575:2014+A1:2016.

Regulation Construction Products

305/2011 EU.

European directives

2014/35/UE (LVD) - 2011/65/CE e 2015/863/EU (RoHS).

Conductor

Flexible tinned annealed plain copper class 5 (EN IEC 60228).

Insulation

Hard ethylene propylene rubber compound, of type Z2, low smoke zero halogens (LS0H).

Colour of the core: neutral

Sheath

Thermoplastic compound of type Z2, low smoke zero halogens (LS0H), resistant to UV rays according to the standard CEI EN 60811-403. Colour of the sheath: black or blue or red.

Marking

Continuous marking on the sheath: «ICEL allSun H1Z2Z2-K nominal cross section IEMMEQU <HAR> ECOGAMMA production date Made in Italy». Progressive meter marking.

Guidance for Use

To be used for photovoltaic systems according to the indication given in the standard CEI 64-8 section 712 (HD 60364-7-712). For intended use:

- outdoor and indoor permanent installation, for free movable, free hanging and fixed installation
- installation in conduits and trunkings on, in or under plaster as well as in appliances;
- for the application in/at equipment with protective insulation (protection class II).
- also for underground installation

They are inherently short-circuit and earth fault proof according to HD 60364-5-52.

EN IEC 60332-1-2



Minimum installation and handling temp -40 °C



Maximum operating temperature on the conductor



Maximum temperature of over load



Maximum short circuit (max 5 sec)



Minimum usage temperature -25 °C



Maximum tensile stress 5 kg/mm²



Minimum internal bending radii 6 times the overall diameter



UV resistantant



Low emission corrosive gasses



Lead Free Ecogamma



According to RoHS



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◀HAR▶

CE 0051



Nominal cross-sectional area of conductors n x mm ²	Maximum diameter of conductor wires mm	Thickness of insulation specified value mm	Indicative core diameter Mm	Thickness of the sheath specified value mm	Maximum overall diameter mm	Indicative cable weight g/m	Maximum conductors resistance at 20°C ohm/km
1 x 1,5	0,26	0,7	2,9	0,8	5,1	32	13,7
1 x 2,5	0,26	0,7	3,4	0,8	5,7	43	8,21
1 x 4	0,31	0,7	3,9	0,8	6,2	60	5,09
1 x 6	0,31	0,7	4,4	0,9	6,9	82	3,39
1 x 10	0,41	0,7	5,4	1,0	8,2	125	1,95
1 x 16	0,41	0,7	6,5	1,0	9,3	185	1,24
1 x 25	0,41	0,9	8,3	1,1	11,4	280	0,795
1 x 35	0,41	0,9	9,6	1,1	12,8	370	0,565
1 x 50	0,41	1,0	11,3	1,2	14,8	520	0,393
1 x 70	0,51	1,1	13,3	1,2	16,9	720	0,277
1 x 95	0,51	1,1	14,8	1,3	18,7	930	0,210
1 x 120	0,51	1,2	16,7	1,3	20,7	1160	0,164