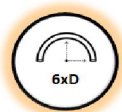
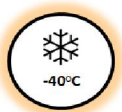
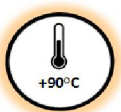
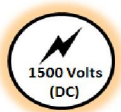
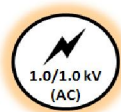


SOLAR CABLE H1Z2Z2-K



Cablu electric cu izolatie si manta reticulata fara halogen pentru sisteme fotovoltaice

Electric cable with halogen-free crosslinked insulation and sheath for photovoltaic systems



Standard de referinta: SR EN 50618
TUV 2Pfg 1169

Tensiune nominala c.a.: 1,0/1,0 kV
Tensiune nominala c.c.: 1500 V

Domeniul de utilizare

Cablurile sunt utilizate in cadrul sistemelor fotovoltaice, pentru utilizare permanenta in spatii deschise. Cablurile se utilizeaza pentru sisteme de curent alternativ U_0/U 1,0/1,0 sau segmentul de curent continuu la o tensiune nominala de c.c. 1500 V intre conductor si intre conductor si masa.

Temperatura max a conductorului in functionare normala: +90°C

Temperatura minima de utilizare: -40°C

* **Temperatura max a conductorului** pentru max 20 000 ore: +120°C si o temperatura a mediului ambiant de: +90°C

Temperatura max. in scurtcircuit (max 5 secunde): +250°C

* **Cablurile sunt cu rezistenta la UV**

Conductor de cupru

Conductor de cupru recopt multifilar (clasa 5), stanat conf. SR EN 60228

Izolatia

Compus reticulabil fara halogeni si cu emisie redusa de fum

Manta

Compus reticulabil fara halogeni si cu emisie redusa de fum.

Cablurile sunt cu rezistenta marita la propagarea flacarii, incercare conf. SR EN 60332-3-24/cat.C

Corazivitatea gazelor de ardere conf SR EN 50267-2-2 (SR CEI 60754-2)

- pH \geq 4.3
- Conductivitatea: \leq 100 μ S*cm⁻¹

Densitatea fumului, conf. SR EN 61034-1

- Permeabilitatea luminii: \geq 60%

Marcaj

SC ELECTROPLAST SA, simbol cablu, an de fabricatie, marcaj de lungime

Raza minima de curbura

6 x diametru cablului

Culoare izolatia: negru sau rosu

Culoare manta: negru, rosu sau albastru

Reference standard: SR EN 50618, TUV 2Pfg 1169

Rated voltage a.c.: 1,0/1,0 V
Rated voltage d.c.: 1500 V

Applicability

Cables used in photovoltaic systems for permanent outdoor use. They are used for ac systems U_0/U 1,0/1,0 or DC systems at a nominal voltage of: 1500 V between conductors and between conductors and mass.

Max. long-run operational temperature: +90°C

Min. operational temperature: -40°C

* **Max temperature of the conductor for max** 20 000 hours: +120°C and an ambient temperature of +90°C

Max. temperature during short circuit (max. 5 seconds): +250°C

* **UV resistant cables**

Copper conductor

Flexible tinned copper conductor (class 5), according SR EN 60228

Insulation

Crosslinkable halogen free and low smoke emission compound

Sheath

Crosslinkable halogen free and low smoke emission compound.

Extra flame retardant cables, test according to EN 60332-3-24/ Category C

Corrosiveness of gases evolved according SR EN 50267-2-2 (SR CEI 60754-2)

- pH: \geq 4.3
- Conductivity: \leq 100 μ S*cm⁻¹

Smoke density according to SR EN 61034-1

- Light permeability: \geq 60%

Marking

SC ELECTROPLAST SA, cable symbol, manufacture year, marking length

Min. bending radius

6 x diametru cablului

Insulation color: black or red

Sheath color: black, red or blue

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Sectiune nominala a conductorului <i>Nominal crosssection of conductor</i>	Diametru max sarmei de cupru <i>Max. copper wire diam</i>	Grosime nominala <i>Nominal thickness</i>		Diametru exterior nominal max <i>Max nominal outer diameter</i>	Rezistenta electrica, max la 20°C <i>Max. resistance at 20°C</i>	Rezistenta de izolatie la 70°C, min. <i>Insulation resistance at 20°C, min</i>	Masa Inf <i>Mass inf</i>
		Izolatie <i>Insulation</i>	Manta <i>Sheath</i>				
mm ²	mm	mm		mm	Ω/km	MΩ*km	kg/km
1.5	0.26	0.7	0.8	5,4	13.7	859	33
2.5	0.26	0.7	0.8	5,9	8.21	691	45
4	0.31	0.7	0.8	6,6	5.09	579	60
6	0.31	0.7	0.8	7,4	3.39	499	80
10	0.41	0.7	0.8	8,8	1.95	424	125
16	0.41	0.7	0.8	10,1	1.24	342	190
25	0.41	0.9	1.0	12,5	0.795	339	290
35	0.41	0.9	1.1	14,0	0.565	287	397
50	0.41	1.0	1.2	16,3	0.393	268	554
70	0.51	1.1	1.2	18,7	0.277	247	768
95	0.51	1.1	1.3	20,8	0.210	220	1016
120	0.51	1.2	1.3	22,8	0.164	211	1217
150	0.51	1.4	1.4	22,5	0.132	206	1511
185	0.51	1.6	1.6	28,5	0.108	200	1811
240	0.51	1.7	1.7	32,1	0.0817	198	2374