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;
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 conductoare 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
Polietilena reticulata conf. EN50618

Manta
Polietilena reticulata conf. EN50618

Cablurile sunt cu intarziere la propagarea flacarii conf. SR EN 60332-1-2 si sunt certificate conf. EN 50575: clasa Eca;

Corozivitatea gazelor de ardere conf. SR EN 60754-2
- ✓ pH : ≥ 4.3
- ✓ Conductivitatea: < 10 µS*cm^{-1}

* Densitatea fumului conf. SR EN 61034-2
* Permeabilitatea luminii: ≥ 60%

Marcaj
ELECTROPLAST SA, simbol cablu, an de fabricatie, marcaj de lungime, Eca

Raza minima de curbura
6 x diametru cablului

Culoare izolatie: alb/natur

Culoare manta: negru, rosu

Reference standard: SR EN 50618;
Rated voltage a.c: 1,0/1,0 V
Rated voltage d.c: 1500 V

Applicability
Cables are 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 rezistant cables**

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

Insulation
Crosslinkable polyethylene acc. to EN 50618

Sheath
Crosslinkable polyethylene acc. to EN 50618

Flame retardant cables, test according to EN 60332-1-2, they are EN 50575 certified: class Eca;

Corrosivity of gases evolved acc. to SR EN 60754-2
- ✓ pH: ≥ 4.3
- ✓ Conductivity: < 10 µS*cm^{-1}

* Smoke density according SR EN 61034-2
* Light permeability: ≥ 60%

Marking
ELECTROPLAST SA, cable symbol, manufacture year, marking length, Eca

Min. bending radius
6 x diametru cablului

Insulation color: alb/natur

Sheath color: black or red

Electroplast

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Sectiunea nominală a conductorului *Nominal crosssection of conductor*	**Diametru max. al sârmei de cupru** *Max. copper wire diam.*	**Grosime nominală** *Nominal thickness*		**Diametru exterior nominal max.** *Max nominal outer diameter*	**Rezistență electrică, max la 20°C** *Max. resistance at 20°C*	**Rezistența de izolație la 20°C, min.** *Insulation resistance at 20°C, min*	**Rezistența de izolație la 90°C, min.** *Insulation resistance at 20°C, min*	**Masa inf** *Mass Inf.*
		Izolație *Insulation*	**Manta** *Sheath*					
mm^2	mm	mm		mm	Ω/km	MΩ*km	MΩ*km	Kg/Km
4	0.31	0.7	0.8	6,6	5.09	580	0.58	55
6	0.31	0.7	0.8	7,4	3.39	500	0.50	74

Electroplast