

Solar cable with flexible tinned copper conductor with insulation and halogen-free thermosetting sheath.



Applications

- In photovoltaic installations according to HD 60364-7-712.
- Designed not to damage solar panels despite harsh environmental conditions.
- Intended to be used for both environments (outdoors and indoors) in flexible, suspended and fixed installations.
- They can be installed both inside a protective channel, tube or on the surface.
- They are intrinsically protected against short circuits and ground faults, in accordance with HD 60364-5-52.
- Weather and ozone resistant.
- Cables suitable for use in class 2 equipment (electrical device). Electrical grounding is not required.
- Designed to work at service temperature of 90 °C, although it allows a maximum temperature of 120 °C.
- Resistance to low temperatures up to -40 °C.



Regulations

- Construction standard according to EN 50618.
- Flame retardant according to IEC 60-332-1-2.
- Halogen-free according to IEC 60754-1.
- Smoke emission compliance according to IEC 61034-2.
- Suitable for the requirements of HD 60364-7-712 photovoltaic cable installations.

Characteristics

Insulation:	Halogen-free thermosetting compound according to EN 50618
CPR classification:	Eca
Colours:	Red & black
Fire behaviour:	Flame retardant according to IEC 60-332-1-2
Conductor:	Class 5 tinned copper according to UNE EN 60228
Sheath:	Halogen-free thermosetting compound according to EN 50618
Operating temperature:	-40 to 90 °C (20000 Ha 120 °C)
Short circuit temperature:	250 °C
Storage temperature:	40 °C
Minimum handling temperature:	-25 °C
UV resistance:	In accordance to EN 50618
Estimated useful life:	25 years
Packaging:	100 m rolls / Coils
Regulation:	EN 50618
Sections:	From 2,5 mm ² to 16 mm ²
Temperature:	90 °C
Electrical voltage test:	6,5 kV in A.C. & 15 kV in D.C.
Nominal voltage:	1/1 kV A.C. & 1,5 kV D.C.

Technical data

Nominal section (mm ²)	Insulation thickness (mm)	Sheath thickness (mm)	Outer mean diameter (mm)	Minimum resistance at 20 °C (MΩkm)	Minimum resistance at 90 °C (MΩkm)
2,5	0,7	0,8	5,9	690	0,69
4	0,7	0,8	6,6	580	0,58
6	0,7	0,8	7,4	500	0,50
10	0,7	0,8	8,8	420	0,42
16	0,7	0,9	10,1	340	0,34