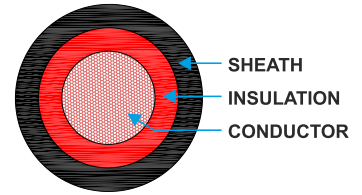




Solar Cables



2401 - Solar Cables

Application

Solar cables are intended for use in photovoltaic power supply systems and similar applications as free hanging, movable, fixed installation and buried in ground in constructional covered systems. The cables can be used indoor, outdoor, in hazard explosion areas, in industry and agriculture.

Properties

- Standard : Cable as per EN 50618 / 2015
- Flame propagation acc. to EN 60332-1-2
- Low smoke emission
- Enhanced thermal, electrical, mechanical and fire properties
- UV resistant

Construction

- Conductor : ATC According to EL 60228, class 5
- Insulation : Halogen free XLPO compound - According to Table B1
- Core Identification : Red, black or natural
- Sheath : UV resistant, cross linkable, halogen free (XLPO), flame retardant compound for sheath over insulation.
- Cable Colour : Red, black, black with red strip
- Jacket : Halogen free compound - According to Table B1

Technical Parameter

- Operating temperature : -40°C to 120°C
- Max. Permissible operating temperature of the conductor : +120°C, Interpretation according to IEC 60216, permanent temperature.
- 120°C for 20,000 h (= 2.3 years), at max. 90°C permanent temperature (= 30 years).
- Short - Circuit temperature : +250°C referring to a period of 5 sec.
- Damp - Heat test : According to EN 60068 - 2 - 78. 1,000h at 90°C and 85% humidity. Min. Permissible ambient temperature : -40°C (stationary and in motion) resistance to cold
- Bending test at low temperature according to DIN EN 60811 - 1 - 4, Impact test similar to DIN EN 50305.
- Minimum bending radius : Fixed installation approx. 5D
- Voltage rating : 1.0/1.0kV AC, 1.5kV DC
- Max. PV - System voltage : DC up to 2.0 kV possible
- Max. Permissible operating voltage in AC systems : 0.7 / 1.2 kV
- Max. Permissible operating voltage in DC systems : 0.9 / 1.8 kV
- Test voltage : 6500V AC for 5 minutes

Dimension

Part code	Area. Sq.mm.	Insulation Thickness (mm)	Outer sheath Thickness (mm)	Approx. Cable Diameter (mm)	Cable Weight (Kg/Km)
2401T001501	1.5	0.7	0.8	4.66	39
2401T002501	2.5	0.7	0.8	5.09	50
2401T004001	4	0.7	0.8	5.59	64
2401T006001	6	0.7	0.8	6.13	87
2401T010001	10	0.7	0.8	7.07	132
2401T016001	16	0.7	0.9	8.32	198
2401T025001	25	0.9	1	10.14	300
2401T035001	35	0.9	1.1	11.49	404
2401T050001	50	1	1.2	13.33	565
2401T070001	70	1.1	1.2	15.19	766
2401T095001	95	1.1	1.3	16.94	1000
2401T120001	120	1.2	1.3	18.71	1250
2401T150001	150	1.4	1.4	20.86	1560
2401T185001	185	1.6	1.6	23.24	1940
2401T240001	240	1.7	1.7	26.14	2480

