



Construction

- ① Conductor: DIN VDE 0295;IEC 60228;EN 60228 Cl 5 Stranded Electrolytic Tinned Copper
- ② Insulation: Halogen Free Special Copolymer
- ③ Outer Sheath: Halogen Free Special Copolymer

Application

Solar cables are intended for use in outdoor applications for the connection between the solar panels and a possible connection from those to the inverter.They are used in places where human life and valuable materials and equipment need to be protected.

Visual Introduction



Technical Data

Conductor Resistance

1,5mm <sup>2</sup> = 13,7 Ω/km	50 mm <sup>2</sup> = 0,393 Ω/km
2,5mm <sup>2</sup> = 8,21 Ω/km	70 mm <sup>2</sup> = 0,277 Ω/km
4 mm <sup>2</sup> = 5,09 Ω/km	95 mm <sup>2</sup> = 0,21 Ω/km
6 mm <sup>2</sup> = 3,39 Ω/km	120 mm <sup>2</sup> = 0,164 Ω/km
10mm <sup>2</sup> = 1,95 Ω/km	150 mm <sup>2</sup> = 0,132 Ω/km
16 mm <sup>2</sup> = 1,24 Ω/km	185 mm <sup>2</sup> = 0,108 Ω/km
25 mm <sup>2</sup> = 0,795Ω/km	240 mm <sup>2</sup> = 0,0817 Ω/km
35 mm <sup>2</sup> = 0,565Ω/km	

Cross section	Current carrying capacity			Cross section	Current carrying capacity			Cross section	Current carrying capacity		
	Single cable free in air	Single cables on surfaces	To cables adjacent on surfaces		Single cable free in air	Single cables on surfaces	To cables adjacent on surfaces		Single cable free in air	Single cables on surfaces	To cables adjacent on surfaces
mm <sup>2</sup>	A	A	A	mm <sup>2</sup>	A	A	A	mm <sup>2</sup>	A	A	A
1,5	30	29	24	16	132	125	107	95	416	395	333
2,5	41	39	33	25	176	167	142	120	488	464	390
4	55	52	44	35	218	207	176	150	566	538	453
6	70	67	57	50	276	262	221	185	644	612	515
10	98	93	79	70	347	330	278	240	775	736	620

Bending Min. Diameter 5 X D Cable sabit / fixed

Test Voltage 6,5 kV AC

Maximum permitted volt. 1,8 kV DC

Nominal Voltage U<sub>0</sub>/U 1.0/1.0 kV AC  
1.5/1.5 kV DC

Smoke Density Test IEC 61034-2, VDE 0482-1034-2, EN 61034-2

Working Temperature -40°C... +90°C

Flame Retardant Test IEC 60332-1-2, VDE 0482-332-1-2, EN 60332-1-2

Max. conductor temperature +120°C (for 20.000 hrs.)

Corr. of Combustion Gasses IEC 60754-2, VDE 0482-754-2, EN 60754-2

Halogen Free Test IEC 60754-1, VDE 0482-754-1, EN 60754-1

Flame Propagation Test IEC 60332-3-24, VDE 0482-332-3-24, EN IEC 60332-3-24

NOMINAL CROSS SEC.	OVERALL D.(~)	COPPER WEIGHT (~)	CABLE WEIGHT (~)
mm <sup>2</sup>	mm	kg/km	kg/km
1,5	4,5	13,5	32
2,5	5	24	42
4	5,5	34	62
6	6,1	52	83
10	7	85	125
16	8	130	181
25	10,1	210	280
35	11,4	290	369

NOMINAL CROSS SEC.	OVERALL D.(~)	COPPER WEIGHT (~)	CABLE WEIGHT (~)
mm <sup>2</sup>	mm	kg/km	kg/km
50	13,9	415	519
70	16,2	612	755
95	17,8	782	942
120	19,5	985	1166
150	22,5	1263	1491
185	25	1528	1812
240	28	2005	2331