

TECHNICAL DATA SHEET

SOLAR CABLE – H1Z2Z2-K

Standards **BS EN 50618 & TUV 2 PFG 1169/08**

Flame Propagation **BS EN/IEC 60332-1-2**

Applications

Solar cable is the interconnection cable used in photovoltaic power plants, they connect solar panels and other electrical components of a photovoltaic system. The cables are suitable to be used with Class II equipment as per BS EN 50618.



Construction

- Class 5 Tinned Annealed Flexible Copper Conductor to BS EN60228
- Cross Linked (XLPO) to BS EN 50618
- Cross Linked (XLPO) to BS EN 50618

Core Identification	White
Sheath Colour	Black or Red
Voltage Rating	1500V d.c.
Operating Temp	-40°C to +120°C
Short Circuit Temp	+250°C

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TECHNICAL DATA

Nominal Conductor Area	Nominal Insulation Thickness	Nominal Sheath Thickness	Approximate Cable O/D	Minimum Insulation Resistance @ 20°C	Minimum Insulation Resistance @ 90°C	Approximate Cable Weight
mm ²	mm	mm	mm	MΩ/Km	MΩ/Km	Kg/Km
1 x 1.50	0.70	0.80	5.40	860	0.86	35
1 x 2.50	0.70	0.80	5.90	690	0.69	46
1 x 4	0.70	0.80	6.60	580	0.58	59
1 x 6	0.70	0.80	7.40	500	0.50	80
1 x 10	0.70	0.80	8.80	420	0.42	120
1 x 16	0.70	0.90	10.10	340	0.34	182
1 x 25	0.90	1.00	12.50	340	0.34	282
1 x 35	0.90	1.10	14.00	290	0.29	375
1 x 50	1.00	1.20	16.30	270	0.27	520
1 x 70	1.10	1.20	18.70	250	0.25	733
1 x 95	1.10	1.30	20.80	220	0.22	963
1 x 120	1.20	1.30	22.80	210	0.21	1196
1 x 150	1.40	1.40	25.50	210	0.21	1504
1 x 185	1.60	1.60	28.50	200	0.20	1851
1 x 240	1.70	1.70	32.10	200	0.20	2425

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CURRENT CARRYING CAPACITIES

Conductor Size (mm ²)	CURRENT CARRYING CAPACITY ACCORDING TO METHOD OF INSTALLATION		
	Single Cable Free Air (A)	Single Cable Surface (A)	Two loaded touching on a surface (A)
1.5	30	29	24
2.5	41	39	33
4	55	52	44
6	70	67	57
10	98	93	79
16	132	125	107
25	176	167	142
35	218	207	176
50	276	262	221
70	347	330	278
95	416	395	333
120	488	464	390
150	566	538	453
185	644	612	515
240	775	736	620

CURRENT RATING CONVERSION FACTORS FOR DIFFERENT AMBIENT TEMPERATURES

Temperature	Up to 60° C	70° C	80° C	90° C
Factor	1.00	0.92	0.84	0.75

BENDING RADIUS REQUIREMENTS

Overall Diameter of Cable (D)	MBR (Fixed Installation)
D ≤ 12	3 D
D ≥ 12	4 D