

Solar PV Energy Cable - BS EN 50618 - 1.5mm to 35mm



Standard solar energy cable intended for the connection of solar panel arrays and similar equipment. Suitable for internal and external installations, fixed, or within conduit. Our solar energy cable is manufactured in accordance to BS EN 50618 and meets harmonised standard of H1Z2Z2-K.

Key Features



Installation Guidelines

Should not be installed at temperatures below 0°C



Voltage Rating

Nominal Voltage: 600V-1000V AC
1800V DC
Test Voltage: 6.5kV AC



Minimum Bending Radius

As Per Manufacturers Datasheet



Water Resistance

AD7 & AD8



Flame Retardancy

BS EN 60332-1-2



Temperature Limits

Ambient Temperature: -40 to 90°C,

Maximum conductor temp: 120°C,

Maximum short circuit temp: 250°C (max 5s),

Short Circuit temp: 250°C

Construction

- **Conductor:** Electrolytic annealed flexible tinned copper conductor (class 5)
- **Insulation:** Cross Linked halogen free compound
- **Sheath:** Cross-linked halogen-free compound
- **Sheath Colour:** Black

Standards

- BS EN 50618, EN 50288-3-7, EN 60068-2-78, EN 50395, Halogen free to EN 50267 / IEC 60754, Smoke Density: light transmittance according to EN 50267 / IEC 61034, Flame retardant to IEC/EN 60332-1-2, Ozone and UV Resistant to EN 60811-403, EN 50396, and EN ISO 4892-1/3, AD7 & AD8 water resistance available.

Solar PV Energy Cable - BS EN 50618 - 1.5mm to 35mm - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km)
SOLAR1X1/5BK	1.5	1	29/0.25	4.9	40
SOLAR1X2/5BK	2.5	1	48/0.25	5.35	49
SOLAR1X4*	4	1	48/0.30	6	66
SOLAR1X6*	6	1	72/0.30	6.55	86
SOLAR1X10BK	10	1	126/0.3	7.6	132
SOLAR1X16BK	16	1	116/0.4	8.6	188
SOLAR1X25BK	25	1	180/0.4	10.8	294
SOLAR1X35BK	35	1	260/0.4	11.9	390
SOLAR1X50BK	50	1	396/0.40	14	540
SOLAR1X70BK	70	1	360/0.50	16.1	740
SOLAR1X95BK	95	1	475/0.50	17.5	965
SOLAR1X120BK	120	1	608/0.50	19.5	1210
SOLAR1X150BK	150	1	756/0.50	21.8	1495
SOLAR1X185BK	185	1	925/0.50	25	1885
SOLAR1X240BK	240	1	1221/0.50	27.6	2395

SOLAR ENERGY CABLE – ELECTRICAL PROPERTIES

NOMINAL CROSS SECTIONAL AREA MM2	ONE SINGLE CORE CABLE			MAXIMUM DC RESISTANCE AT 20°C	MAXIMUM DC RESISTANCE AT 90°C
	SINGLE CABLE IN FREE AIR	SINGLE CABLE FREE ON A SURFACE	TWO CABLES ADJACENT ON A SURFACE		
1.5	30	29	24	13.700	17.468
2.5	41	39	33	8.210	10.469
4	55	52	44	5.090	6.490
6	70	67	57	3.390	4.322
10	98	93	79	1.950	2.486
16	132	125	107	1.240	1.581
25	176	167	142	0.795	1.013
35	218	207	176	0.565	0.720
50	276	262	221	0.393	0.501
70	347	330	278	0.277	0.353
95	416	395	333	0.210	0.267
120	488	464	390	0.164	0.209
150	566	538	453	0.132	0.168
185	644	612	515	0.108	0.137
240	775	736	620	0.082	0.104

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For more information contact: 01642 241 133

