

# Solar PV Energy Cable -TÜV 2PFG 1169/08.2007, H1Z2Z2-K. BS EN 50618 - 1.5mm<sup>2</sup> to 240mm<sup>2</sup>



## Description

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 TÜV 2PFG 1169/08.2007 (PV1-F) BS EN 50618 and meets harmonised standard of H1Z2Z2-K. This cable is; flame-retardant, UV resistant and water-resistant. All available in AD7 or AD8 water resistance rating. 6mm<sup>2</sup> Solar cable also available to CPR rating B2ca

## Key Features



### Voltage Rating

1.0/1.0kV AC  
1.5/1.5 (1.8kV) DC



### Minimum Bending Radius

5 x Overall Diameter



### 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



### CPR Compliant

Yes

## Standards

- TÜV 2PFG 1169/08.2007 (PV1-F)
- AD7 & AD8 water resistance available.
- BS EN 50618
- EN 50288-3-7
- EN 60068-2-78
- EN 50395
- Halogen free to IEC 60754
- Smoke Density: light transmittance according to IEC 61034
- IEC/EN 60332-1-2

## Construction

- **Conductor:** Class 5 flexible, Electrolytic tinned copper
- **Insulation:** Cross linked, Halogen free compound
- **Outer Sheath:** UV Resistant, Cross linked, Halogen free compound
- **Sheath Colour:** Black

## QA Lab

### Cleveland Cable Test & Training Lab

Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.



### CPR

Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.



## Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.



### ecovadis

Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance



## Solar PV Energy Cable -TÜV 2Pfg 1169/08.2007, H1Z2Z2-K. BS EN 50618 - 1.5mm<sup>2</sup> to 240mm<sup>2</sup> - Dimensions

Reference	Conductor Size (mm <sup>2</sup> )	No Of Cores	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km)
SOLAR1X1/5	1.5	1	29/0.25	4.9	40
SOLAR1X2/5	2.5	1	48/0.25	5.35	49
SOLAR1X4	4	1	48/0.30	6	66
SOLAR1X6	6	1	72/0.30	6.15	86
SOLAR1X6BKR500/AD8B2	6	1	72/0.30	6.55	86
SOLAR1X10	10	1	126/0.3	7.6	132
SOLAR1X16	16	1	116/0.4	8.6	188
SOLAR1X25	25	1	180/0.4	10.8	294
SOLAR1X35	35	1	260/0.4	11.9	390
SOLAR1X50	50	1	396/0.40	14	540
SOLAR1X70	70	1	360/0.50	16.1	740
SOLAR1X95	95	1	475/0.50	17.5	965
SOLAR1X120	120	1	608/0.50	19.5	1210
SOLAR1X150	150	1	756/0.50	21.8	1495
SOLAR1X185	185	1	925/0.50	25	1885
SOLAR1X240	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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