



## Technical Data Sheet

**VK-PV-1.0/1KV  
(H1Z2Z2-K)**

Halogen Free Photovoltaic Power cables , Halogen free, Flame Retardant, Low Smoke Emission, UV.



### Constructions

- 1-Tinned fine copper strands acc. to IEC 60228, Class 5
- 2-XLPO, flame retardant, halogen free, compound
- 3-XLPO, flame retardant, halogen free, compound

They are used in solar power and solar energy production applications , solar cells and solar panel systems . It is suitable for usage in PV systems manufactured in compliance with HD 60364-7-712. Recommended service life is 25 years .

**Permissible Operating Temperature**

90°C

**Operating Voltage(Rated Voltage)**

1.0/1KV Ac

**Operating Voltage(max. Voltage Dc)**

1.8/1.8Kv

**Max.Short Circuit Temperature**

250°C

**Outer sheet Colour**

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### Technical Specifications

**Desing Standarts**

EN 50618

**Bending Radius**

Fixed installation >4 × D  
Occasionally moved >5 × D

**Flame Retardant Test**

IEC 60332-1

**Low Smoke Test**

IEC 61034-1, IEC 61034-2

**Halogen Free Test**

IEC 60754-1, IEC 60754-2

**Long-term behavior**

EN 60216

**Ozone Resistance Test**

EN 50396

**Weather-/UV-resistance**

EN 50618, appendix E

Cross Section (mm <sup>2</sup> )	Max.Outer Diameter(mm)	Max.DC Resistance (20°C)(Ohm/Km)	Current carrying capacity acc. to method of installation			Delivery Length (m)
			Single Cable free in air (A)	Single Cable on a Surface (A)	Two loaded cables touching on a surface (A)	
1,50	5,40	13,70	30	29	24	1000
2,50	5,90	8,21	41	39	33	1000
4,00	6,60	5,09	55	52	44	1000
6,00	7,40	3,39	70	67	57	1000
10,00	8,80	1,95	98	93	79	1000
16,00	10,10	1,24	132	125	107	1000
25,00	12,50	0,795	176	167	142	1000
35,00	14,00	0,565	218	207	176	1000
50,00	16,30	0,393	276	262	221	1000
70,00	18,70	0,277	347	330	278	1000
95,00	20,80	0,210	416	395	333	1000
120,00	22,80	0,164	488	464	390	1000
150,00	25,50	0,132	566	538	453	1000
185,00	28,50	0,108	644	612	515	1000
240,00	32,10	0,0817	775	736	620	1000

(Ambient temperature : 60°C , max. conductor temperature : 120°C, Operating temperature: -40°C ~+90°C)

(NOTE: The expected period of use at a max. conductor temperature of 120°C and at a max. ambient temperature of 90°C is limited to 20000h)

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