

# Solar cable H1Z2Z2-K



EN 50618  
& IEC62930




## Advantages

- EN50618 approval
- Double insulated Electron-beam cross-linked compounds
- UV, ozone and hydrolysis resistant
- Halogen free, flame retardant
- Flexible, easy to strip
- Compatible to all connectors
- Meter marking – easy installation

## Applications

- Double insulated, electron-beam cross-linked cables for photovoltaic power applications.

## Construction

- Conductor Tinned fine copper strands acc. to VDE 0295 / IEC 60228, Class 5
- Insulation XLPO, flame retardant, halogen free, electron-beam cross-linked
- Jacket XLPO, flame retardant, halogen free, electron-beam cross-linked
- Insulation color  black
- Jacket color  black or  red

## Mechanical feature

- Bending radius 4 x outer diameters
- Temperature range -40 °C to +90 °C, Max. temp. at conductor +120 °C
- Short circuit temperature 250°C for 5 s
- Flame-resistant test acc. to EN 60332-1-2
- Anticipated service life 25 years

## Electrical characteristics

- Rated voltage DC 1500 V  
AC  $U_0/U$ : 1.0/1.0 kV
- max. permitted voltage  $U_0$  1800 V DC
- Insulation resistance 1000MΩ/KM
- Test Voltage (AC) AC 6.5kV, 50Hz, 5 min

Cross section nxmm <sup>2</sup>	Conductor Ø mm	Outer Ø mm	Current-carrying capacity [A] at 60°C	Conductor resistance kΩ / km at 20°C	Weight app. kg / km	Cable Code
1x1.5	1.5	4.3	30	13.7	30	PV302515
1x2.5	2.0	5.2	42	8.21	42	PV502525
1x4.0	2.5	5.5	55	5.09	55	PV562940
1x6.0	3.3	6.3	70	3.39	68	PV842960
1x10.0	4.3	7.8	98	1.95	98	PV142301
1x16.0	5.3	9.2	132	1.24	132	PV228301
1x25.0	6.6	11.3	176	0.795	176	PV361302
1x35.0	7.8	13.3	218	0.565	218	PV525303
1x50.0	9.3	14.8	280	0.393	280	PV720305
1x70.0	11.4	16.9	350	0.277	350	PV988307
1x95.0	12.8	18.7	410	0.210	410	PV134930
1x120.0	14.6	20.7	480	0.164	480	PV169130

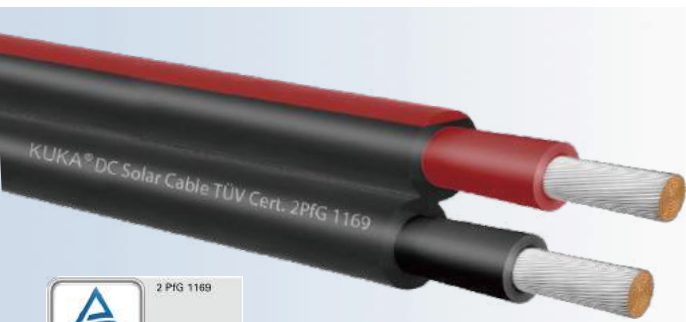
Dimensions and specifications may be changed without prior notice.

**KUKA®**

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# Solar cable twin-core







## Advantages

- TÜV approval, PV1-F 2 PFG 1169
- Double insulated Electron-beam cross-linked compounds
- UV, ozone and hydrolysis resistant
- Halogen free, flame retardant
- Flexible, easy to strip
- Compatible to all connectors
- Meter marking – easy installation

## Applications

- Double insulated, electron-beam cross-linked cables for photovoltaic power applications.

## Construction

- Conductor Tinned fine copper strands acc. to VDE 0295 / IEC 60228, Class 5
- Insulation XLPO, flame retardant, halogen free, electron-beam cross-linked
- Jacket XLPO, flame retardant, halogen free, electron-beam cross-linked
- Insulation color  black and  red
- Jacket color   black with red strip

## Mechanical feature

- Bending radius 4 x Ø outer diameters
- Temperature range -40 °C to +90 °C, Max. temp. at conductor +120 °C
- Short circuit temperature 250°C for 5 s
- Flame-resistant test acc. to EN 60332-1-2
- Anticipated service life 25 years

## Electrical characteristics

- Rated voltage DC 1.5kV  
AC U<sub>0</sub>/U: 0.6/1.0 kV
- max. permitted voltage U<sub>0</sub> 1800 V DC
- Insulation resistance 1000MΩ/KM
- Test Voltage (AC) AC 6.5kV, 50Hz, 5 min

Cross section nxmm <sup>2</sup>	Conductor Ø mm	Outer Ø mm	Current-carrying capacity [A] at 60°C	Conductor resistance kΩ / km at 20°C	Weight app. kg / km	Cable Code
2x1.5	1.5	4.3x8.8	30	13.7	30	PV2F3025
2x2.5	2.0	5.2x10.6	42	8.21	42	PV2F5025
2x4.0	2.5	5.5x11.2	55	5.09	55	PV2F5629
2x6.0	3.3	6.3x12.8	70	3.39	68	PV2F8429
2x10.0	4.3	7.8x15.8	98	1.95	98	PV2F1423
2x16.0	5.3	9.2x18.6	132	1.24	132	PV2F2283
2x25.0	6.6	11.3x22.8	176	0.795	176	PV2F3613
2x35.0	7.8	13.3x26.8	218	0.565	218	PV2F5253
2x50.0	9.3	14.8x29.8	280	0.393	280	PV2F7203
2x70.0	11.4	16.9x34.0	350	0.277	350	PV2F9883

Dimensions and specifications may be changed without prior notice.

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