



Shanghai Yuanling Cable Co., Ltd.

## Cable for use in Photovoltaic Systems

### Plastic Insulated Cables - H1Z2Z2-K



#### Cable Construction:

- Conductor: Tin plated copper multi-strand wire, meet standard IEC60228 + EN60228, VDE0295, Class 5
- Insulation: Electron-beam cross-linked Polyolefin Copolymer TUV2PfG/1169
- Insulation color: black/black, black/blue, red/red, blue/black, black/red, red/black, blue/blue, or based on your demand
- Sheath: Polyolefin Copolymer electron-beam cross-linked TUV2PfG/1169
- Insulation color: black/black, black/blue, red/red, blue/black, black/red, red/black, blue/blue, or based on your demand

#### Technical data:

- Rated Voltage: AC 0.6/1KV, DC 1.0/1.8KV
- Test Voltage: 6500V
- Temperature Range: Environment + 90°C Cable+120°C
- Laying installation: -30/+120°C
- Fixed installation: -45/+120°C
- Short Circuit: +250°C

#### Application:

- Especially suitable for connection between solar power generator connector and converter, and it can be installed outdoor under the different climate, also it is suitable for dry and wet indoor condition

#### Characteristic:

- High heat-resistant flame retardant
- Halogen-free
- Climate resistance
- Minimum bending radius:
  - $\Phi \leq 12\text{mm}$ : 3 x D
  - $\Phi > 12\text{mm}$ : 4 x D
- Halogen-free: Not contain hydrochloric acid comply with EN50627-2-1, Not contain fluorine comply with EN60684-2
- Flame retardant from extinguish comply with IEC60332-1- 2+EN60332-1-2

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<b>Part-No</b>	<b>Sectional area (mm<sup>2</sup>)</b>	<b>External Diameter (mm)</b>	<b>Current Carrying Capacity (A)</b>
006601001	1.5	4.9	30
006601002	2.5	5.5	41
006601003	4	6.1	55
006601004	6	7.2	70
006601005	10	9	98
006601006	16	10.2	132
006601007	25	12	176
006601008	35	13.8	218
006601009	50	14.8	280
006601010	70	16.9	350
006601011	95	18.7	410
006601012	120	20.7	480



Product Service

# CERTIFICATE

No. B 18 05 04778 001

**Holder of Certificate:** Shanghai Yuanling Wire & Cable Co., Ltd.

No.888 Pengqing Road  
Huaqiao Town  
215332 Shanghai,Fengxian  
PEOPLE'S REPUBLIC OF CHINA

**Production Facility(ies):** 04778

**Certification Mark:**



**Product:** Plastic insulated cables  
Cable for use in photovoltaic systems

**Model(s):** H1Z2Z2-K 1×1,5 mm<sup>2</sup>.....1×35 mm<sup>2</sup>

**Parameters:**

Rated Voltage:	DC 1500V (between conductors and between conductor and earth)
	AC U <sub>0</sub> /U: 1,0/1,0 kV
Application Class:	A
Protection Class:	II
Ambient Temperature:	-40°~ + 90°C
Max. Temperature at conductor:	120°C

**Tested according to:** EN 50618:2014

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

**Test report no.:** 704071810501-00

**Valid until:** 2023-05-16

Date, 2018-05-22  
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( Yaqun Liu )





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