
# H1Z2Z2-K Photovoltaic Solar Cable

CABLE STRUCTURE:

**Conductor:**

Class 5 flexible tinned copper conductor

**Insulation:**

Halogen-free cross-linked compound

**Sheath:**

Halogen-free cross-linked, flame retardant compound

CODE DESIGNATION: H1Z2Z2-K

APPLICATION:

Updated harmonised (H1Z2Z2-K) European standard solar cable intended for the interconnection within photovoltaic systems such as solar panel arrays.
Suitable for fixed installations, internal and external, within conduit or systems.
Impact tested-Suitable for direct burial.
For installationsd where fire, smoke emissions and toxic fumes create a potential risk to life and equipment. Water resistant to AD8.

STANDARD:

EN 50618, TUV 2 PIG 1169/08.2007,
EN 50288-3-7 EN 60068-2-78, EN 50395
Flame retardant to IEC/EN 60332-1-2
Low Smoke Zero Halogen to IEC/EN 60754-1/2,
IEC/EN 61034-1/2, EN 50267-2-2
Ozone and UV Resistant to EN 60811-403,
EN 50396, EN ISO 4892-1/3,
Water Resistant to AD8

TECHNICAL DATA:

**Voltage Rating: Uo/U**

DC: 1500/1500V

AC: 1000/1000V

**Maximum Voltage: (Umax)**

1800V

**Test Voltage :**

6.5kV AC

**Temperature Rating Fixed:**

-40°C to +90°C

**Minimum Bending Radius:**

5 x overall diameter

**Maximum Conductor Temperature:**

+120°C (for 20000h)

CERTIFICATES:

We hold SAA, CE, TUV and CCC certifications for our product categories. Additionally, we possess other authoritative certifications recognized in various countries and regions. For further details on our certification portfolio, please do not hesitate to contact us.

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## Specifications

| Nom.Cross-section Area | Nominal Overall Diameter | Nominal Weight | Tensile Strength in Operation | Maximum Conductor DC Resistance at 20℃ | Maximum Donductor DC Resistance at 90℃ |
|---|---|---|---|---|---|
| mm2 | mm | kg/km | N | Ω/km | Ω/km |
| 1 × 1.5 | 4.6 | 36 | 22 | 13.7 | 17.468 |
| 1 × 2.5 | 5 | 46 | 37 | 8.21 | 10.468 |
| 1 × 4 | 5.6 | 62 | 60 | 5.09 | 6.49 |
| 1 × 6 | 6.1 | 82 | 90 | 3.39 | 4.322 |
| 1 × 10 | 7.1 | 125 | 150 | 1.95 | 2.486 |
| 1 × 16 | 8.5 | 190 | 240 | 1.24 | 1.581 |
| 1 × 25 | 10.4 | 285 | 375 | 0.795 | 1.013 |
| 1 × 35 | 11.5 | 385 | 525 | 0.565 | 0.720 |
| 1 × 50 | 13.7 | 540 | 750 | 0.393 | 0.501 |
| 1 × 70 | 15.8 | 740 | 1050 | 0.277 | 0.353 |
| 1 × 95 | 17.3 | 965 | 1350 | 0.21 | 0.267 |
| 1 × 120 | 19.1 | 1210 | 1800 | 0.164 | 0.209 |
| 1 × 150 | 21.4 | 1495 | 2250 | 0.132 | 0.168 |
| 1 × 185 | 24.9 | 1885 | 2775 | 0.108 | 0.137 |
| 1 × 240 | 27.3 | 2395 | 3600 | 0.0817 | 0.104 |