

H1Z2Z2-K

TÜV solar PV cable

ACCORDING TO: EN 50618/ IEC 62930



APPLICATION

The H1Z2Z2-K cable, which is TÜV certified according to IEC 62930 and EN 50618, is suitable for both fixed and mobile solar installations (solar farms, rooftop solar installations and floating plants).

It is a highly flexible cable compatible with all major connectors and specially designed for the connection of photovoltaic panels. This versatile single-conductor cable is designed to meet the varying needs of the solar industry. Suitable for wet, damp and humid locations.

CONSTRUCTION

💡 Conductor

Electrolytic annealed tinned copper conductor, Class 5 (flexible) according to IEC 60228 and EN 60228.

💡 Insulation

Low smoke Halogen Free (LSHF) cross linked XLPE insulation. Insulation requirements according to EN 50618 table B1, Annex B and IEC 62930.

💡 Outer sheath

Low smoke Halogen Free (LSHF) cross linked flexible XLPE outer sheath. Outer sheath requirements according to EN 50618 table B1, Annex B and IEC 62930. Red or black colour.

Environmental performance

Chemical & Oil resistance: Excellent.

Grease & mineral oils resistance: Excellent.

UV Resistant according to EN 50618.

Ozone resistant according to EN 50618.

CHARACTERISTICS

💡 Thermal performance

Maximum service temperature: 120°C.

Maximum short-circuit temperature: 200°C (max. 5 s).

Minimum service temperature: -40°C (fixed and protected installations).

💡 Electrical performance

Low voltage: DC 1.5/1.8 kV

AC 1.0/1.0kV(U0/U)

💡 Fire performance

Flame non-propagation according to EN 60332-1, IEC 60332-1-2 and EN 50399.

Fire non-propagation according to EN 50399.

LSHF (Low Smoke Halogen Free) according to EN 60754-1 and IEC 60754-1.

Low smoke emission according to EN 61034 and IEC 61034: Light transmittance > 60%.

Low corrosive gases emission according to EN 60754-2 and IEC 60754-2.

💡 Mechanical performance

Minimum bending radius: x5 cable diameter.

Impact resistance: AG2 Medium severity.

💡 Installation conditions

Open Air.

Buried.

In conduit.

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STANDARDS / COMPLIANCE

According to

EN 50618/ IEC 62930

Standards and approvals

TÜV / DEKRA / RoHS / CE.



DIMENSIONS & ADMISSIBLE INTENSITIES

Cross- section (mm ²)	Diameter (mm)	Weight (kg/km)	Open air (A)	Int. on surface (A)	Int. adjoining to surface (A)	Voltage drop (V/A·km)
1 x 1.5	4.6	35	30	29	24	38.2
1 x 2.5	5	45	41	39	33	23
1 x 4	5.4	60	55	52	44	14.3
1 x 6	6	80	70	67	57	9.49
1 x 10	7	120	98	93	79	5.46
1 x 16	8.2	180	132	125	107	3.47
1 x 25	10.2	280	176	167	142	2.23
1 x 35	11.5	375	218	207	176	1.58
1 x 50	13.3	525	276	262	221	1.1
1 x 70	15	720	347	330	278	0.772
1 x 95	17	930	416	395	333	0.585
1 x 120	18.7	1.175	488	464	390	0.457
1 x 150	21	1.475	566	538	453	0.368
1 x 185	23.5	1.805	644	612	515	0.301
1 x 240	26.3	2.345	775	736	620	0.228