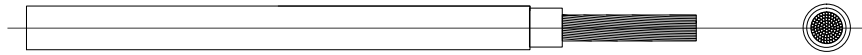


OUTDOOR S07Z1-K Cu/Sn

Flexible and halogen free earthing connections.

BASED ON: [EN 50525-3-31](#)

DESIGN



Conductor

Electrolytic tinned copper, class 5 (flexible), based on EN 60228 and IEC 60228.

Insulation

UV resistant (LSZH) polyolefin insulation.

The standard identification of insulated conductors is the following:

Green/Yellow ● RAL 1021/6018

Other colours available on request.

APPLICATIONS

S07Z1-K is a LSHF safety cable specially engineered for earthing connections in outdoor installations. The tinned copper and the special UV resistant compounds makes the cable resistant against corrosion and UV rays degradation.

FEATURES



Electrical performance

Low voltage 450/750 V.



Based on

EN 50525-3-31



Standards and approvals

HAR / RoHS / CE.



CPR (Construction Products Regulation)

B2_{ca} - s1a, d1, a1.



Thermal performance

Maximum service temperature: 90°C.

Maximum short-circuit temperature: 160°C (max. 5 s).

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



Climatic performance

❄️ Cold climates (from -40°C)

UV UV Resistant based on EN 50618.

O₃ Ozone resistant based on EN 50618.



Fire performance

Flame non-propagation based on EN 60332-1 and IEC 60332-1.

Fire non-propagation based on EN 60332-3 and IEC 60332-3.

LSHF (Low Smoke Zero Halogen) based on EN 60754-1 and IEC 60754-1.

Low smoke emission based on EN 61034 and IEC 61034:

Light transmittance > 60%.

Low corrosive gases emission based on UNE-EN 60754-2 and IEC 60754-2.

Reaction to fire CPR: B2_{ca} - s1a, d1, a1, according to EN 50575.



Mechanical performance

Minimum bending radius: x5 cable diameter.



Chemical performance

Chemical & Oil resistance: acceptable.



Other

Meter by meter marking. (from 10mm² onwards).



Installation conditions

In conduit.

Open air.



Packaging

High-resistant boxes and cable drums.

SOLAR CABLES



H1Z2Z2-K



H1Z2Z2-K DUAL



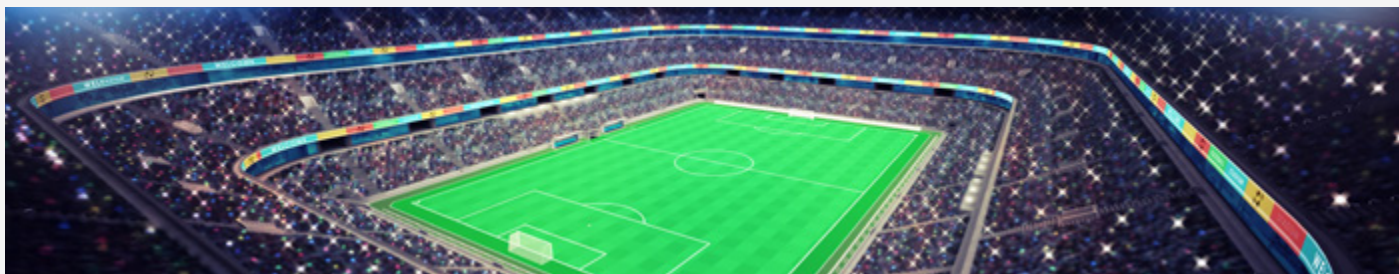
AL 1500 V



AL 2kV PV WIRE



OUTDOOR
S07Z1-K Cu/Sn



OUTDOOR S07Z1-K Cu/Sn

Dimensions & admissible intensities

Cross section (mm ²)	Diameter (mm)	Weight (Kg/km)	In conduit 30°C (A)	Open air 30°C (A)	Voltage drop (V/A · km)
1 x 4	4,1	45	32	42	11,9
1 x 6	4,7	65	41	54	7,92
1 x 10	5,9	105	57	75	4,58
1 x 16	7	160	76	100	2,9
1 x 25	8,7	245	101	127	1,87
1 x 35	9,9	335	125	158	1,33
1 x 50	11,8	480	151	192	0,926
1 x 70	13,5	655	192	246	0,653
1 x 95	15,6	865	232	298	0,494
1 x 120	17,3	1.095	269	346	0,386
1 x 150	19,3	1.380	300	395	0,31
1 x 185	21,5	1.675	341	450	0,254
1 x 240	24,5	2.210	400	538	0,192

Maximum current capacity according to IEC 60364-5-52.

For other installation conditions, please refer to correction factors in the appendix to this catalogue.

SheSolar reserves the right to carry out any modification to the data sheets whatsoever without giving previous notice.