H1Z2Z2-K, optimized version

Cross-linked H1Z2Z2-K/EN 50618 certified solar cable, UL Impact-Resistance tested

H1Z2Z2-K - cross-linked solar cable per EN 50618 for durable outdoor use in photovoltaic systems, UL 854 Impact-Resistance tested, CPR Dca classified

Info
H1Z2Z2-K type certified according to EN 50618
Burial-related, mechanical UL 854 Impact-Resistance Test
Dca classified per CPR

Solar Energy
Suitable for outdoor use
Good chemical resistance
Halogen-free
Heat-resistant
Cold-resistant
Temperature-resistant
UV-resistant
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**Benefits**
- Reduction of flame propagation and of toxic combustion gases in the event of fire
- Robust against mechanical impacts
- For outdoor applications
- Inside the EU, and particularly on site, applicable for many building types as per local, legal implementation of EU CPR - Construction Product Regulation (EU) No. 305/2011, thanks to Dca Classification
- 25 years in expectable lifespan under normal use conditions as defined in EN 50618

**Application range**
- For free and stationary or for freely suspended outdoor and indoor cabling between the solar modules, or between the module strings and the DC/AC inverter, for example in line with HD 60364-7-712 on PV systems, and EN 50618 on H1Z2Z2-K cable type, etc....: Short circuit and earth fault protected per EN 50618, Annex A, and per HD 60364-5-52
- Photovoltaic systems with DC system voltage up to 1800 V
- As per EN 50618, Annex A, inside electrical installation pipe/ duct/ channel, plaster, and appliance, as well as inside or connected to double insulated/ protected appliance or system of protection class II
- Contact with water for many years can damage cables case by case, and sometimes occurs inside mechanically protective conduits/ ducts/ tubes/ raceways as a consequence of logging, rain or condensation, for instance
- Increased, mechanical robustness, for instance in the event of impact, with regard to assessed, burial based UL 854 Impact-Resistance Test

**Product features**
- Weather/ UV resistant per EN 50618, Annex E, as well as ozone resistant per EN 50396
- Flame retardant per IEC 60332-1-2, and Dca classified per EU CPR - Construction Product Regulation (EU) No. 305/2011
- Halogen-free systems according to IEC 60754-1 (amount of halogen acid gas), Corrosiveness of combustion gases according to IEC 60754-2 (degree of acidity)
- Good notch and abrasion resistance
- Burial-related, mechanical Impact-Resistance Test of Single-Conductor Type USE and USE-2 cables [Underground Service Entrance Cables] per UL 854, Section 23, conducted

**Norm references / Approvals**
- H1Z2Z2-K type certified according to EN 50618
- Items with other cross-sections on request

**Product Make-up**
- Fine-wire, tinned-copper conductor
- Coreinsulation made of cross-linked copolymer
- Outer sheath made of cross-linked copolymer
- Outer sheath colour: black, red or blue
- Further single colours for the outer sheath on request

**Technical Data**
- Classification ETIM 5: ETIM 5.0 Class-ID: EC001578
- ETIM 5.0 Class-Description: Flexible cable
- Classification ETIM 6: ETIM 6.0 Class-ID: EC001578
- ETIM 6.0 Class-Description: Flexible cable
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Conductor stranding: Fine wire according to VDE 0295, class 5/IEC 60228 class 5
Minimum bending radius: 4 x OD
Nominal voltage:
- AC $U_{0}/U$: 1.0/1.0 kV
- DC $U_{0}/U$: 1.5/1.5 kV
- Max. permissible DC operating voltage: 1.8 kV
Test voltage:
- AC 6500 V
- DC 15000 V
Current rating: Im compliance with EN 50618, Table A.3
- Acc. to EN 50618, reduction factors for clustered wiring per...
- HD 60364-5-52
Temperature range:
- Conductor..., max., per EN 60216-1: 120°C;
- Conductor..., max., short-circuit/ earth fault (period of max. 5 s): 250°C;
- Ambient..., min., stationary use: -40°C;
- Ambient..., min., flexible use or during installation: -25°C;
- Ambient..., max., in conjunction with EN 60216-1: 90°C;
- Ambient..., constant, in conjunction with HD 60364-7-712: 70°C to 90°C;
- Ambient..., ambient temp. related reduction factor 1.00: 60°C;
- Ambient..., max., storage: 40°C

Note
Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.
Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
Photographs and graphics are not to scale and do not represent detailed images of the respective products.
Prices are net prices without VAT and surcharges. Sale to business customers only.

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Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16
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