SOLAR CABLE H1Z2Z2-K

H1Z2Z2-K/EN 50618 solar cable, Burial in ground: Professional Cable Trench

H1Z2Z2-K EN 50618 PV Solar Cable, DC String Cable, TÜV-certified -approved, Flexible, Halogen-Free, Direct Burial in Professional Cable Trench, AD8, CPR Eca

Info
Eca classified per CPR
Burial in layered trench/ AD8
TÜV certified

Solar Energy

Suitable for outdoor use

Good chemical resistance

Flame-retardant

Halogen-free

Cold-resistant

Mechanical resistance

Low weight

Last Update (23.04.2024)

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You can find the current technical data in the corresponding data sheet.
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Robust


Acid-resistant


Voltage


Temperature-resistant


UV-resistant


Waterproof

Benefits

For outdoor applications
Reduction of flame propagation and of toxic combustion gases in the event of fire
Eca classified per CPR
25 years in expectable lifespan under normal use conditions as defined in EN 50618
Improved resistance in salt-containing air and close to salt water bodies

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
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
Photovoltaic systems with DC system voltage up to 1800 V to ground
Underground use without protection conduit/ duct in professionally built cable trench with at least 50 cm of back-fill soil (70 cm underneath roads), above indicating tape, above covering plastic slab, above at least 10 cm of covering sand layer, above the cable laid on at least 10 cm high sand bed layer (cf.: Section 4.2 of VDE 0891-6, or Section 300.5 in Article 300 of NFPA 70/ NEC - National Electrical Code of the USA). Underground laying inside buried conduit/ tube/ pipe/ raceway, where waterlogging is carried off, out of the protection system, and where any water intruding the protection system is not contaminated
Permanent contact with uncontaminated freshwater, under mechanical protection; Conditional usability in limitedly salt-containing air, for instance close to salt-containing water bodies

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 Eca classified per EU CPR - Construction Product Regulation (EU) No. 305/2011
Halogen-free according to IEC 60754-1 (amount of halogen acid gas),
Low Corrosiveness of combustion gases according to IEC 60754-2 (degree of acidity)

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AD8 - Permanent Submersion
Salt mist resistance test acc. to DIN EN 60068-2-11, test Ka, sections 3.1.2 and 3.2;
Ammonia resistance test per EN 50618;
Long-term water immersion test based on EN 50618 and EN 50395;
AD8 test series per EN 50525-2-21, annexes D and E

Norm references / Approvals

H1Z2Z2-K type certified according to EN 50618

Product Make-up

Fine-wire, tinned-copper conductor
Naturally coloured conductor insulation made of electron-beam cross-linked co-polymer polyolefin (XLPO)
Outer sheath made of electron-beam cross-linked, halogen-free co-polymer polyolefin (XLPO)
Outer sheath colours:
#38001014: Black only
#38001015: Black main colour with red, longitudinal stripe

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
Conductor stranding:	Fine wire according to VDE 0295, class 5/IEC 60228 class 5
Minimum bending radius:	5 x Outer Diameter
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 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.: -40°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
* Trade product, no Lapp product
Photographs and graphics are not to scale and do not represent detailed images of the respective products.

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Prices are net prices without VAT and surcharges. Sale to business customers only.

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Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
Outer Sheath Colour: Black only				
38001014	1 X 6	6.1	57.6	75
Outer Sheath Colour: Black main colour plus red colour stripe				
38001015	1 X 6	6.1	57.6	75