H1Z2Z2-K

Cross-linked solar cables - type H1Z2Z2-K, certified according to EN 50618

H1Z2Z2-K - cross-linked solar cable according to EN 50618 for durable, weather-resistant use in photovoltaik systems

Info
CPR: Article number choice under www.lappkabel.com/cpr
H1Z2Z2-K type certified according to EN 50618
Substitudes previous ÖLFLEX® SOLAR XLR-R

Solar Energy

Suitable for outdoor use

Halogen-free

Cold-resistant

Acid-resistant

Temperature-resistant

UV-resistant

Last Update (30.01.2020)

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

H1Z2Z2-K

Benefits
Reduction of flame propagation and of toxic combustion gases in the event of fire
Robust against mechanical impacts
For outdoor applications

Application range
Photovoltaic systems with DC system voltage up to 1800 V
For the cabling between the solar modules and as extension cable between the module strings and the DC/AC inverter
Flexible or building-integrated PV systems
Underground use inside protection conduits/ ducts for burial in combined case of (1) secure dissipation of water(logging) from outer cable surface, as well as (2) laying of 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 conduit/ duct laid on at least 10 cm high sand bed layer
Long-term permanent storage/ operation in water not permitted

Product features
Flame retardant acc. to IEC 60332-1-2
Weather/UV-resistant acc. to EN 50618, appendix E
Ozone-resistant according to EN 50396
Good notch and abrasion resistance
Halogen-free according to IEC 60754-1
(amount of halogen acid gas)
Corrosiveness of combustion gases according to IEC 60754-2 (degree of acidity)

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
Colour of core insulation: white
Outer sheath made of cross-linked copolymer
Outer sheath colour: black, red or blue

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:	D</=8mm: 4D; 8<D</=12mm: 5D; D>12mm: 6D **D* = Cable's 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

H1Z2Z2-K

Current rating:	Im compliance with EN 50618, Table A.3
Temperature range:	-40°C to +120°C max. conductor temperature based on EN 60216-1 Ambient temperature range according to EN 50618: -40°C to +90°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
Packaging size: Coil 100 m; Drum (500; 1000) m
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.

LAPP

H1Z2Z2-K

PRODUCT INFORMATION

Article number	Conductor cross-section (mm²)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1023552	4	5.35	38.4	62
1023553	6	5.9	57.6	84
1023554	10	7	96	126
1023555	16	8.1	153.6	197
1023590	25	10.3	240	270
1023591	35	11.8	336	370
Core insulation: white / Outer sheath: red				
1023572	4	5.35	38.4	62
1023573	6	5.9	57.6	84
1023574	10	7	96	126
1023575	16	8.1	153.6	197
Core insulation: white / Outer sheath: blue				
1023582	4	5.35	38.4	62
1023583	6	5.9	57.6	84
1023584	10	7	96	126
1023585	16	8.1	153.6	197