



H1Z2Z2-K

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



Info

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

Benefits

- Reduction of flame propagation and of toxic combustion gases in the event of fire
- Robust against mechanical impacts
- For outdoor applications
- Not suitable for direct burial, installation according to IEC 60364-5-52, respectively HD 60364-5-52

Application range

- For use in photovoltaic-systems with rated voltage 1500 V DC
- For the cabling between the solar modules and as extension cable between the module strings and the DC/AC inverter
- Gable and flat roof photovoltaic systems
- Photovoltaic plants and solar parks
- Flexible or building-integrated PV systems

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 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 5/6

ETIM 5.0/6.0 Class-ID: EC001578
ETIM 5.0/6.0 Class-Description:
Flexible cable



Conductor stranding

Fine wire according to VDE 0295, class 5/IEC 60228 class 5



Minimum bending radius

Fixed installation: 4 x outer diameter



Nominal voltage

AC U₀/U : 1,0/1,0 kV
DC U₀/U : 1,5/1,5 kV
Max. permissible operating voltage:
DC 1,8 kV



Test voltage

AC 6500 V



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

| Article number | Conductor cross-section (mm ²) | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|---|--|---------------------|----------------------|----------------|
| H1Z2Z2-K | | | | |
| Core insulation: white / Outer sheath: black | | | | |
| 1023552 | 4 | 5.8 | 38.4 | 62 |
| 1023553 | 6 | 6.3 | 57.6 | 84 |
| 1023554 | 10 | 7.4 | 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 | 5.8 | 38.4 | 62 |
| 1023573 | 6 | 6.3 | 57.6 | 84 |
| 1023574 | 10 | 7.4 | 96 | 126 |
| 1023575 | 16 | 8.1 | 153.6 | 197 |
| Core insulation: white / Outer sheath: blue | | | | |
| 1023582 | 4 | 5.8 | 38.4 | 62 |
| 1023583 | 6 | 6.3 | 57.6 | 84 |
| 1023584 | 10 | 7.4 | 96 | 126 |
| 1023585 | 16 | 8.1 | 153.6 | 197 |

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.

Accessories

- EPIC® CRIMPTOOL
- Cable shears with double edge refer to page 980
- EPIC® SOLAR 4 F refer to page 673
- KS 20 cable shears
- EPIC® SOLAR 4 M refer to page 673

ÖLFLEX® SOLAR XLWP

Electron beam cross-linked solar cables with optimized performance in water - EN 50618 type

Info

- Optimised cable design - constant high volume resistance even after long-term period in water
- H1Z2Z2-K (type according to EN 50618)
- Substitutes previous ÖLFLEX® SOLAR XLR WP

Benefits

- The alternative for long-term storage in water, e.g. as it can occur in case after flooding or in buried conduits
- Reduction of flame propagation and of toxic combustion gases in the event of fire
- Robust against mechanical impacts
- Extruded colour stripe serves as reverse polarity protection during installation.
- Exact quantity control during installation by meter marking on the cable sheath

Application range

- For underground installation in conduits, in which water, heat and moisture can accumulate
- For floating PV / canal top installations where cables are in contact with water or exposed to high humidity (see data sheet for more details)
- Gable and flat roof photovoltaic systems
- Photovoltaic plants and solar parks
- Suitable for direct burial: see data sheet

Product features

- Weather/UV-resistant acc. to EN 50618, appendix E
- Ozone-resistant according to EN 50396
- Halogen-free and flame-retardant
- Good notch and abrasion resistance
- XLWP = X-Linked Water-Proof
Proven electron beam cross-linked quality

Norm references / Approvals

- H1Z2Z2-K (type according to EN 50618)
- Items with other cross-sections on request

Product Make-up

- Fine-wire, tinned-copper conductor
- Core insulation made of electron beam cross-linked copolymer
- Colour of core insulation: white
- Outer sheath made of electron beam cross-linked copolymer
- Outer sheath colour: black respectively black with red stripe

Technical data

| | |
|--|---|
| | Classification ETIM 5/6 ETIM 5.0/6.0 Class-ID: EC001578 ETIM 5.0/6.0 Class-Description: Flexible cable |
| | Conductor stranding Fine wire according to VDE 0295, class 5/IEC 60228 class 5 |
| | Minimum bending radius Fixed installation: 4 x outer diameter |
| | Nominal voltage AC U0/U : 1,0/1,0 kV DC U0/U : 1,5/1,5 kV Max. permissible operating voltage: DC 1,8 kV |
| | Test voltage AC 6500 V |
| | 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 |

| Article number | Conductor cross-section (mm²) | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|---|-------------------------------|---------------------|----------------------|----------------|
| ÖLFLEX® SOLAR XLWP | | | | |
| Core insulation: white / Outer sheath: black | | | | |
| 1023601 | 4 | 5.8 | 38.4 | 68.1 |
| 1023602 | 6 | 6.4 | 57.6 | 91.6 |
| 1023603 | 10 | 7.6 | 96 | 138.6 |
| 1023604 | 16 | 9.1 | 153.6 | 209.7 |
| Core insulation: white / Outer sheath: black with red stripe | | | | |
| 1023621 | 4 | 5.8 | 38.4 | 68.1 |
| 1023622 | 6 | 6.4 | 57.6 | 91.6 |
| 1023623 | 10 | 7.6 | 96 | 138.6 |
| 1023624 | 16 | 9.1 | 153.6 | 209.7 |

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.

Accessories

- Cable shears with double edge refer to page 980
- EPIC® SOLAR 4 M refer to page 673
- EPIC® SOLAR 4 F refer to page 673
- UNIVERSAL STRIP stripping tool refer to page 990
- KS 20 cable shears