

## ÖLFLEX® SOLAR XLWP

E-beam cross-linked H1Z2Z2-K with optimized water performance and for burial

ÖLFLEX® SOLAR cable, type H1Z2Z2-K certified by TÜV per EN 50618, e-beam crosslinked, particularly watertight design, burial in ground, UL 854 impact tests, AD8

### Info

Optimised cable design - high volume resistance even after long-term period in water

H1Z2Z2-K type certified according to EN 50618

Burial (see details)



Solar Energy



Suitable for outdoor use



Halogen-free



Cold-resistant



Acid-resistant



Temperature-resistant



UV-resistant



Waterproof

Last Update (26.04.2024)

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Product Management [www.lappkabel.de](http://www.lappkabel.de)

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

PN 0456 / 02\_03.16

## ÖLFLEX® SOLAR XLWP



### Benefits

Robust against mechanical impact, for instance in case of unprotected burial in professionally made cable trench: Additional impact tests per UL 854

The alternative for water coverage, e.g. due to elevated water line caused by flooding

Reduction of flame propagation and of toxic combustion gases in the event of fire

Extruded colour stripe serves as reverse polarity protection during installation.

Exact quantity control during installation by meter marking on the cable sheath

### Application range

Photovoltaic systems with DC system voltage up to 1800 V to ground

For the cabling between the solar modules and as extension cable between the module strings and the DC/AC inverter

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)

In September 2018 and based on AD8 watertightness and particularly watertight design, this product was recommended by Solartechnik Bayern for underground use typically realized via underground conduits/ ducts (...) for PV applications; Damp build-up of **contaminated** water inside underground conduit/duct shall be avoided

The expected service life at normal use conditions in line with EN 50618 amounts to 25 years

### Product features

Weather/ UV resistant per EN 50618 as well as ozone resistant per EN 50396;

Transversely watertight "AD8" per IEC 60364-5-51/ HD 60364-5-51, IEC 62440, and EN 50525-2-21

Halogen-free and flame-retardant

Good notch and abrasion resistance

Tested against burial-related, mechanical UL 854 Tests Impact-Resistance and Crushing-Resistance

XLWP = X-Linked + Water-Proof (Permanent water contact AD8 acc. to IEC 60364-5-51, 1 mtr. in max. submersion depth @ temperature of widely unmoved water between 5 °C and 40 °C),

Proven electron beam cross-linked quality

### 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

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 only, or Black with Red or Blue 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

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## ÖLFLEX® SOLAR XLWP

Conductor stranding:	Fine wire according to VDE 0295, class 5/IEC 60228 class 5
Minimum bending radius:	D $\leq$ 8mm: 4D; 8<D $\leq$ 12mm: 5D; D>12mm: 6D *D = Cable's outer diameter
Nominal voltage:	AC U <sub>0</sub> /U: 1.0/1.0 kV DC U <sub>0</sub> /U: 1.5/1.5 kV Max. permissible DC operating voltage: 1.8 kV
Test voltage:	AC 6500 V
Current rating:	Im compliance with EN 50618
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](http://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.

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Article number	Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
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

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