

## ÖLFLEX® SOLAR H1 BUR

H1Z2Z2-K/EN 50618 solar cable, Burial in ground, AD8, Dca 1X4mm<sup>2</sup> - 1X10mm<sup>2</sup>

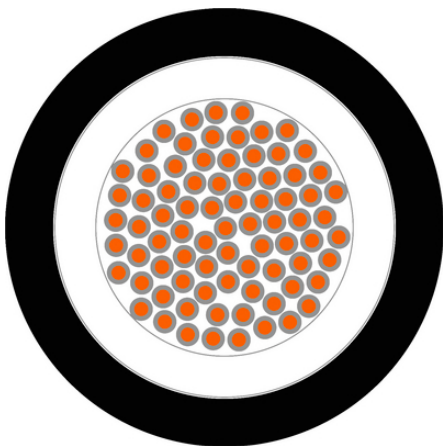
ÖLFLEX<sup>®</sup> SOLAR H1 BUR - TÜV-certified LAPP solar cable H1Z2Z2-K, per EN 50618/ IEC 62930, UL 854 mech. Resistance, AD8, Burial in ground, CPR Dca 1X4mm<sup>2</sup> - 1X10mm<sup>2</sup>

### Info

5 Years Guarantee Card

Tested Burial in Ground and AD8 (permanent submersion)

Dca classified per CPR 4mm<sup>2</sup>-10mm<sup>2</sup>



e-Mobility



Mechanical and plant engineering



Solar Energy



Wind Energy



Suitable for outdoor use



Good chemical resistance



Flame-retardant



Halogen-free

Last Update (18.03.2025)

©2025 Lapp Group - Technical changes reserved

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 H1 BUR



Cold-resistant



Corrosion-resistant



Mechanical resistance



Assembly time



Low weight



Space requirement



Robust



Acid-resistant



Reliability



Voltage



Temperature-resistant



UV-resistant



Waterproof



Variety of approval certifications



### Benefits

Halogen-free core insulation and sheath compound to meet special fire protection requirements

Transverse watertightness allows permanent submersion in shallow, uncontaminated water: AD8 in accordance with IEC 60364-5-51 and IEC 62440

Last Update (18.03.2025)

©2025 Lapp Group - Technical changes reserved

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 H1 BUR

Due to its increased mechanical strength, it is suitable for underground installation in a cable trench with a sand bed, tested using the "Impact-Resistance Test" and the "Crushing-Resistance Test" in accordance with UL 854

Cross-linked insulation and sheath materials promote longevity at high temperatures or at high current load, and provide high dielectric strength and a high short-circuit temperature

IEC certification allows international use of the product in countries in which the IEC standards are applicable

### Application range

For unprotected connection of solar modules and inverters in earthed and non-earthed photovoltaic systems according to EN 50618 and IEC 62930

For fixed installation and occasional flexing, if necessary freely hanging

Underground installation in protective cable conduits in line with IEC 60364-5-52/ VDE 0100-520, Section 522.3

Underground installation in a cable trench with a sand bed based on VDE 0891-6 and DIN EN 50174-3

Expected service life of 25 years in accordance with EN 50618 and IEC 62930 in case of norm-compliant wiring and operation

### 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

Flame retardant per IEC 60332-1-2, and Dca classified per EU CPR - Construction Product Regulation (EU) No. 305/2011 for cross-sectional conductor areas 4 mm<sup>2</sup> thru 10 mm<sup>2</sup>

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)

Good notch and abrasion resistance

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

### Norm references / Approvals

"H1Z2Z2-K" type-certified by TÜV as per EN 50618

"62930 IEC 131" type-certified by TÜV as per IEC 62930

### Product Make-up

Fine-wire, tinned-copper conductor

Core insulation: Crosslinked XLPE within the group of XLPO's

Outer sheath: Crosslinked XLPE within the group of XLPO's

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:	Occasionally moved: 4xOD (for OD up to 12mm) or 5xOD (OD >12mm) Stationary use: 3xOD (for OD up to 12mm) or 4xOD (OD >12mm)
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 Acc. to EN 50618, reduction factors for clustered wiring per... HD

Last Update (18.03.2025)

©2025 Lapp Group - Technical changes reserved

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 H1 BUR

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](http://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.

**ÖLFLEX® SOLAR H1 BUR**

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)
Black outer sheath			
38115805	1 X 2.5	5	24
38115806	1 X 4	5.6	38.4
38115807	1 X 6	6.2	57.6
38115808	1 X 10	7.4	96
38115809	1 X 16	8.4	153.6
38115810	1 X 25	10.5	240
38115811	1 X 35	11.8	336
Red outer sheath			
38115812	1 X 2.5	5	24
38115813	1 X 4	5.6	38.4
38115814	1 X 6	6.2	57.6
38115815	1 X 10	7.4	96
38115816	1 X 16	8.4	153.6
38115817	1 X 25	10.5	240
38115818	1 X 35	11.8	336
Blue outer sheath			
38115819	1 X 2.5	5	24
38115820	1 X 4	5.6	38.4
38115821	1 X 6	6.2	57.6
38115822	1 X 10	7.4	96
38115823	1 X 16	8.4	153.6
38115824	1 X 25	10.5	240
38115825	1 X 35	11.8	336

Last Update (18.03.2025)

©2025 Lapp Group - Technical changes reserved

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