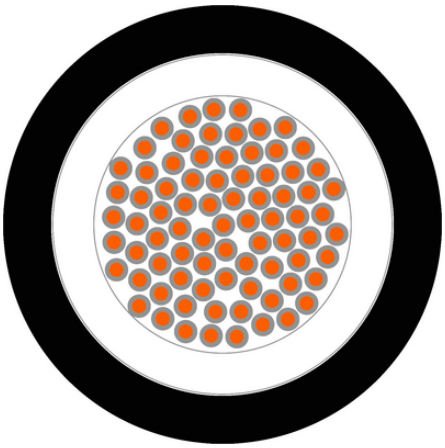
ÖLFLEX® SOLAR H1 BUR

H1Z2Z2-K/EN 50618 solar cable, Burial in ground, AD8, Dca 1X4mm² - 1X10mm²

ÖLFLEX® 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 1X4mm² -1X10mm²

Info
5 Years Guarantee Card
Tested Burial in Ground and AD8 (permanent submersion)
Dca classified per CPR 4mm²-10mm²





- e-Mobility
- Mechanical and plant engineering
- Solar Energy
- Wind Energy
- Suitable for outdoor use
- Good chemical resistance
- Flame-retardant
- Halogen-free

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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

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ÖLFLEX® SOLAR H1 BUR

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
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^2 thru 10 mm^2
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_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

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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., 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
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	Number of cores and mm² per conductor	Color mantle	Outer diameter [mm]	Copper index (kg/km)
Black outer sheath				
38115805	1 X 2.5	black	5	24
38115806	1 X 4	black	5.6	38.4
38115807	1 X 6	black	6.2	57.6
38115808	1 X 10	black	7.4	96
38115809	1 X 16	black	8.4	153.6
38115810	1 X 25	black	10.5	240
38115811	1 X 35	black	11.8	336
Red outer sheath				
38115812	1 X 2.5	red	5	24
38115813	1 X 4	red	5.6	38.4
38115814	1 X 6	red	6.2	57.6
38115815	1 X 10	red	7.4	96
38115816	1 X 16	red	8.4	153.6
38115817	1 X 25	red	10.5	240
38115818	1 X 35	red	11.8	336
Blue outer sheath				
38115819	1 X 2.5	blue	5	24
38115820	1 X 4	blue	5.6	38.4
38115821	1 X 6	blue	6.2	57.6
38115822	1 X 10	blue	7.4	96
38115823	1 X 16	blue	8.4	153.6
38115824	1 X 25	blue	10.5	240
38115825	1 X 35	blue	11.8	336

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