



ÖLFLEX® SOLAR XLWP

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



Info

- Optimised cable design - high volume resistance even after long-term period in water
- H1ZZZ2-K type certified according to EN 50618
- Mechanical UL 854 burial tests



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
- 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)
- 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, 10 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

- H1ZZZ2-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 5/6 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 D<=8mm: 4D; 8<D<=12mm: 5D; D>12mm: 6D
	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
	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

Article number	Conductor cross-section (mm ²)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® SOLAR XLWP				
Core insulation: white / Outer sheath: black				
1023601	4.0	5.8	38.4	68.1
1023602	6.0	6.4	57.6	91.6
1023603	10.0	7.6	96	138.6
1023604	16.0	9.1	153.6	209.7
Core insulation: white / Outer sheath: black with red stripe				
1023621	4.0	5.8	38.4	68.1
1023622	6.0	6.4	57.6	91.6
1023623	10.0	7.6	96	138.6
1023624	16.0	9.1	153.6	209.7
Core insulation: white / Outer sheath: black with blue stripe				
1023625	4.0	5.8	38.4	68.1
1023626	6.0	6.4	57.6	91.6

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.lapp.com

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.