



# ÖLFLEX® SOLAR XLR-E I+E

E-beam crosslinked EN 50618 solar cable - 62930 IEC 131 type



**Info**

- TÜV approved to EN 50618 (H1Z2Z2-K), and to IEC 62930

**Benefits**

- Reduction of flame propagation and of toxic combustion gases in the event of fire
- Robust against mechanical impacts
- Exact quantity control during installation by meter marking on the cable sheath

**Application range**

- For the cabling between the solar modules and as extension cable between the module strings and the DC/AC inverter
- For outdoor applications
- Underground use inside protection conduits/ ducts for burial in combined case of (1) secure dissipation of water(logging) from outer cable surface, as well as (2) laying of 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 conduit/ duct laid on at least 10 cm high sand bed layer (cf.: VDE 0891-6, Section 4.2)
- Long-term permanent storage/ operation in water not permitted
- Not suitable for direct burial, Installation according to IEC 60364-5-52, respectively HD 60364-5-52

**Product features**

- Weathering/ UV resistant per Annexes E of EN 50618 and IEC 62930, furthermore ozone resistant per EN 50618 (...) as well as per IEC 62930 in conjunction with IEC 60811-403
- Flame retardant per IEC 60332-1-2; Halogen-free and non-corrosive per Annexes B and C of EN 50525-1, Annex B of IEC 62821-1, IEC 62821-2, IEC 60754-1/ EN 60754-1, EN 50267-2-1, IEC 60754-2/ EN 60754-2, EN 50267-2-2 and IEC 60684-2/ EN 60684-2; Low Smoke Density in the event of fire per EN 50618 in conjunction with EN 61034-2 and per IEC 62930 in conjunction with IEC 61034-2

- Good notch and abrasion resistance
- Temporary, non-permanent immersion in water (AD7) acc. to EN 50618, HD 60364-5-51, EN 60529

**Norm references / Approvals**

- H1Z2Z2-K approved by TÜV acc. to EN 50618 (1.5 mm<sup>2</sup> to 300 mm<sup>2</sup>)
- 62930 IEC 131 approved by TÜV acc. to IEC 62930 (1.5 mm<sup>2</sup> to 300 mm<sup>2</sup>)

**Product Make-up**

- Fine-wire, tinned-copper conductor
- Core insulation made of electron beam cross-linked copolymer
- Colour of core insulation: white
- Single-core versions only
- Outer sheath made of electron beam cross-linked copolymer
- Outer sheath colour Black or Blue
- From a technical standpoint comparable versions with Red outer colouring accessible under product name "ÖLFLEX® SOLAR XLR-E" without "I+E" in the product name, and just with H1Z2Z2-K approval by TÜV per EN 50618, not with IEC 62930 approval:  
 →Red-only outer sheath, for instance:  
 2.5 mm<sup>2</sup> = #1023803;  
 4 mm<sup>2</sup> = #1023677;  
 6 mm<sup>2</sup> = #1023676;  
 10 mm<sup>2</sup> = #1023804;  
 16 mm<sup>2</sup> = #1023805; ...  
 →Black sheath with Red colour stripe within part number circles #1023666 to #1023670 as well as #1023814 to #1023824, for example:  
 2.5 mm<sup>2</sup> = #1023666;  
 4 mm<sup>2</sup> = #1023667;  
 6 mm<sup>2</sup> = #1023668;  
 10 mm<sup>2</sup> = #1023669;  
 16 mm<sup>2</sup> = #1023670;

**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**  
 4 x outer diameter for outer diameter ≤ 8 mm.  
 5 x outer diameter for outer diameter > 8 mm.

**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**  
 In IEC installations: IEC 62930, appendix A (for grouping/ clustering of circuits: reduction factors per IEC 60364-5-52)  
 In EN installations in Europe: EN 50618, appendix A (for grouping/ clustering of circuits: reduction factors per HD 60364-5-52)

**Temperature range**  
 For PV installations: -40°C (stationary) or -25°C (flexible) to +90°C.  
 20,000 hours (IEC 60216/ EN 60216):  
 Max. +120°C per IEC 62930 and EN 50618.

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>Black outer sheath</b>				
1023714	1 X 1.5	4.6	14.4	40
1023715	1 X 2.5	5.0	24.0	50
1023716	1 X 4.0	5.4	38.4	70
1023717	1 X 6.0	6.0	57.6	90
1023718	1 X 10.0	7.2	96.0	140
1023719	1 X 16.0	8.7	153.6	210
1023720	1 X 25.0	10.6	240.0	320
1023721	1 X 35.0	12.2	336.0	430
1023722	1 X 50.0	14.4	480.0	601
1023723	1 X 70.0	16.4	672.0	819
<b>Blue outer sheath</b>				
1023734	1 X 1.5	4.6	14.4	40
1023735	1 X 2.5	5.0	24.0	50
1023736	1 X 4.0	5.4	38.4	70

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1023737	1 X 6.0	6.0	57.6	90
1023738	1 X 10.0	7.2	96.0	140
1023739	1 X 16.0	8.7	153.6	210
1023740	1 X 25.0	10.6	240.0	320
1023741	1 X 35.0	12.2	336.0	430
1023742	1 X 50.0	14.4	480.0	601
1023743	1 X 70.0	16.4	672.0	819

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 T 17 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.

### Similar products

- ÖLFLEX® SOLAR XLWP refer to page [P292086]
- ÖLFLEX® SOLAR XLWP I+E refer to page [P490675]

### Accessories

- EPIC® CRIMPTOOL refer to page [P208769]
- KNIPEX Cable shear refer to page [P305271]
- EPIC® SOLAR 4 M refer to page [P171267]
- EPIC® SOLAR 4 F refer to page [P171767]
- KS 20 cable shears refer to page [P1249]