

The new generation of electron beam cross-linked solar cables with reduced diameters - TÜV type approved

Product Description

Reduced outer diameters enable space and weight saving installation; Reduction of flame propagation as well as of toxic combustion gases in the event of fire; Robust against mechanical impacts; Colour-coding of the core insulation simplifies the differentiation of the polarity during installation; Exact quantity control during installation by meter marking on the cable sheath



Application range

- For the cabling between the solar modules and as an extension cable between the individual module strings or DC/AC inverter
- Gable and flat roof photovoltaic systems
- Photovoltaic plants and solar parks
- For the cabling of flexible or building- integrated photovoltaic systems

Benefits

- Reduced outer diameters enable space and weight saving installation
- Reduction of flame propagation as well as of toxic combustion gases in the event of fire
- Robust against mechanical impacts
- Colour-coding of the core insulation simplifies the differentiation of the polarity during installation
- Exact quantity control during installation by meter marking on the cable sheath

Design

- Conductor: fine-wire tinned-copper strands
- Core insulation: electron beam cross-linked copolymer
- Colour of core insulation: white, red or blue
- Outer sheath: electron beam cross-linked copolymer
- Outer sheath colour: black

Approvals

- TÜV Type approved (2PfG 1169/08.07)
- Halogen-free according to EN 50267-2-1/-2
- Ozone-resistant according to EN 50396
- Weather/UV-resistant acc. to HD 605/A1
- Acid and alkali-resistant acc. EN 60811-2-1

Product features

- Excellent weather, temperature and UV-resistance
- Good notch and abrasion resistance
- Good heat pressure resistance
- Halogen-free and flame-retardant
- XLR-R = X-Linked Radiated-Reduced Proven electron beam cross-linked quality

Technical Data

Approvals

PV1-F (TÜV type approved according to 2 PfG 1169/08.2007)

Conductor stranding

Fine wire according to VDE 0295, class 5/IEC 60228 class 5

Minimum bending radius

Fixed installation: 4 x outer diameter

Nominal voltage

AC U₀/U : 600/1000 V DC U₀/U : 900/1500 V Max.

permissible operating voltage: DC 1,8 kV

(Conductor-conductor, non earthed system)

Test voltage

AC 6500 V

Current rating

Im compliance with TÜV requirements spec. 2 PfG 1169/08.2007 table 1

Temperature range

-40°C to +120°C max. conductor temperature based on EN 60216-1 Ambient temperature range according to TÜV 2 PfG 1169/08.2007: -40°C to +90°C

Article List

Part number	Conductor cross-section (mm ²)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® SOLAR XLR-R Core insulation: white / Outer sheath: black				
0023175	1,5	4.4	14.4	34
0023176	2,5	4.8	24.0	46

0023177	4	5.2	38.4	63
0023178	6	5.8	57.6	86
0023179	10	7.0	96.0	132
0023180	16	8.3	153.6	197
Core insulation: red / Outer sheath: black				
0023186	1,5	4.4		34
0023187	2,5	4.8	24.0	46
0023188	4	5.2	38.4	63
0023189	6	5.8	57.6	86
0023190	10	7.0	96.0	132
0023191	16	8.3	153.6	197
Core insulation: blue / Outer sheath: black				
0023192	1,5	4.4	14.4	34
0023193	2,5	4.8	24.0	46
0023194	4	5.2	38.4	63
0023195	6	5.8	57.6	86
0023196	10	7.0	96.0	132
0023197	16	8.3	153.6	197

Footnote:

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100kg. Refer to Appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging size: Coil 100 m; Drum (500; 1000) m

Photographs are not to scale and do not represent detailed images of the respective products.