

U.I. Lapp GmbH	PRODUCT INFORMATION	
	ÖLFLEX® SOLAR XLR-R	12.09.2012

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



Info

Optimised cable design - thin, light and robust
 TÜV Type approved (2PfG 1169/08.07) According to DKE specification PV1-F
 Substitutes version XLR und XLR TF

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
 Flexible or building-integrated photovoltaic systems

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 (Norm references)

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

Remark

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.

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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 U ₀ /U : 600/1000 V DC U ₀ /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

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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	14.4	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