Electron beam cross-linked solar cables with optimized performance in water - TÜV type
The alternative for long-term storage in water, e.g. as it can occur in case after flooding or in buried conduits
Reduction of flame propagation and of toxic combustion gases in the event of fire
Robust against mechanical impacts
Extruded colour stripe serves as reverse polarity protection during installation.
Exact quantity control during installation by meter marking on the cable sheath

Suitable for outdoor use

Single halogen-free cable

Cold-resistant

Solar Energy

Temperature-resistant

UV-resistant

Waterproof

Info

Optimised cable design -constant high volume resistance even after long-term period in water
TÜV Type PV1-F (2 PfG 1169/08.2007)

Application range

For underground installation in conduits, in which water, heat and moisture can accumulate
For the cabling between the solar modules and as extension cable between the module strings and the DC/AC inverter
Gable and flat roof photovoltaic systems
Photovoltaic plants and solar parks
Suitable for direct burial: see data sheet

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 respectively black with red or blue stripe

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

Product features
Weather/UV-resistant acc. to HD 605/A1
Ozone-resistant according to EN 50396
Halogen-free and flame-retardant
Good notch and abrasion resistance
XLR WP = X-Linked Radiated Water-Proof
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 150/100 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
Packaging size: Coil 100 m; Drum (500; 1000) m
Photographs are not to scale and do not represent detailed images of the respective products.

Technical Data

Classification:	ETIM 5.0 Class-ID: EC001578 ETIM 5.0 Class-Description: Flexible cable
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:	In compliance with TÜV 2 PfG 1169/08.2007 table 1
Temperature range:	-40°C to +120°C max. conductor temperature based on EN 60216-1 Ambient temperature according to TÜV 2 PfG 1169/08.07: -40°C to +90°C

Part number	Conductor cross-section (mm²)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® SOLAR XLR WPCore insulation: white / Outer sheath: black				
1023501	2,5	5.2	24.0	48
1023502	4	5.6	38.4	65
1023503	6	6.2	57.6	88
1023504	10	7.4	96.0	135
1023505	16	8.7	153.6	207
Core insulation: white / Outer sheath: black with red stripe				
1023521	2,5	5.2	24.0	48
1023522	4	5.6	38.4	65
1023523	6	6.2	57.6	88
1023524	10	7.4	96.0	135
1023525	16	8.7	153.6	207
Core insulation: white / Outer sheath: black with blue stripe				
1023526	2,5	5.2	24.0	48
1023527	4	5.6	38.4	65
1023528	6	6.2	57.6	88
1023529	10	7.4	96.0	135
1023530	16	8.7	153.6	207