The latest solar cable generation according to PV1-F design

Product Description

High thermal capacity for long lasting operation of the PV system at all seasons;Reduction of flame propagation as well as of toxic combustion gases in the event of fire;Variously coloured core insulations simplify on demand the differentiation of the polarity during installation;Robust against mechanical impact;Exact quantity control during installation by meter marking on the cable sheath

Application range

- For cabling of solar modules among themselves and as extension cable between the individual module strings or DC/AC inverter
- Gable and flat roof photovoltaic systems
- Photovoltaic resp. solar fields

Benefits

- High thermal capacity for long lasting operation of the PV system at all seasons
- Reduction of flame propagation as well as of toxic combustion gases in the event of fire
- Variously coloured core insulations simplify on demand the differentiation of the polarity during installation
- Robust against mechanical impact
- Exact quantity control during installation by meter marking on the cable sheath

Design

- Conductor: Fine wired tinned copper strands
- Core insulation: Electron beam cross-linked copolymer
- Core insulation colour: Black, 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 EN 50396
- Weather-/UV resistant according HD 605/A1
- Acid-/Brine resistant according 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
- Resistant against oxalic acid and sodium hydroxide

Technical Data

Approvals
PV1-F (TÜV Type approved according 2 PfG 1169/08.2007)
Conductor stranding
Fine wire in accordance to VDE 0295 Class 5 / IEC 60228 Class 5
Minimum bending radius
Fixed installation: 4 x cable diameter
Rated voltage
AC U0/U : 600/1000 V DC U0/U : 900/1500 V Max. permissible operating voltage: DC 1800 V
Test voltage
AC 6500 V
Range of temperature
-40°C up to +120°C max. conductor temperature Ambient temperatur range acc. to TÜV 2 PfG 1169/08.2007: -40°C to +90°C

Article List

Part number	Conductor cross section in mm²	Outer diameter in mm	Copper index kg/km	Weight kg/km
ÖLFLEX® SOLAR XLR Core insulation: black / Outer sheath: black				
0025906	2,5	6.0	24.0	58
0025907	4	6.5	38.4	77
0025908	6	7.1	57.6	102
0025909	10	8.9	96.0	163
0025910	16	9.8	153.6	225
Core insulation: red / Outer sheath: black				
0025912	2,5	6.0	24.0	58

0025913	4	6.5	38.4	77
0025914	6	7.1	57.6	102
0025915	10	8.9	96.0	163
0025916	16	9.8	153.6	225
Core insulation: blue / Outer sheath: black				
0025918	2,5	6.0	24.0	58
0025919	4	6.5	38.4	77
0025920	6	7.1	57.6	102
0025921	10	8.9	96.0	163
0025922	16	9.8	153.6	225

Footnote:

All product related values as shown are nominal values unless specified differently. Further values, e.g. tolerances we submit on request - if available and released for publication.

Copper price basis: EUR 150 / 100 kg; For utilization and definition of 'Metal price basis' and 'Metal index' see Appendix T17

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.