

Robust solar cable with big conductor cross sections

Product Description

Reinforced outer sheath offers enhanced protection against mechanical stress; 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; For outdoor use and considering general installation guidelines also suitable for direct burial; Exact quantity control during installation by meter marking on the cable sheath



Application range

- For cabling of individual module strings as well as for fixed solar generators and moved tracking systems
- Photovoltaic resp. solar fields
- Big conductor cross-sections are used as collecting main to transmit high power loads between the individual panel-strings and as connection to the DC/AC inverter of huge PV plants respectively solar fields

Benefits

- Reinforced outer sheath offers enhanced protection against mechanical stress
- 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
- For outdoor use and considering general installation guidelines also suitable for direct burial
- 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
- Outer sheath: Electron beam cross-linked Copolymer
- Outer sheath colour: Black

Approvals (Norm references)

- Weather-/UV resistant according HD 605/A1
- Flame retardant according to IEC 60332-1-2
- Halogen free in accordance with IEC 60754-1
- Ozone resistant according EN 50396



- Acid-/Brine resistant according EN 60811-2-1

Product features

- Good weather-, abrasion-, temperature- and UV resistance
- Good heat pressure resistance
- Halogen-free and flame retardant

Technical Data

Core identification code

Black

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

Fixed installation: -40° C up to +100 °C

Article List

Part number	Conductor cross section in mm ²	Outer diameter in mm	Copper index kg/km	Weight kg/km
ÖLFLEX® SOLAR XLSv				
0027110	4	8.0	38.4	104
0027111	6	9.1	57.6	141
0027112	10	10.5	96.0	201
0027113	16	11.9	153.6	280
0027114	25	13.2	240.0	386
0027115	35	14.5	336.0	502
0027116	50	17.7	480.0	698
0027117	70	19.7	672.0	921
0027118	95	22.0	912.0	1210
0027119	120	23.8	1152.0	1475
0027120	150	28.0	1440.0	1868
0027121	185	31.0	1776.0	2299
0027122	240	34.0	2304.0	2910

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.

Considering economic minimum lengths we produce on request versions with red respectively blue core insulation colour or an imprinted code stripe on the black outer sheath as distinctive feature