

ÖLFLEX® SOLAR XLS

DB 0025800
valid from: 25.02.2010

1. LAPP Designation

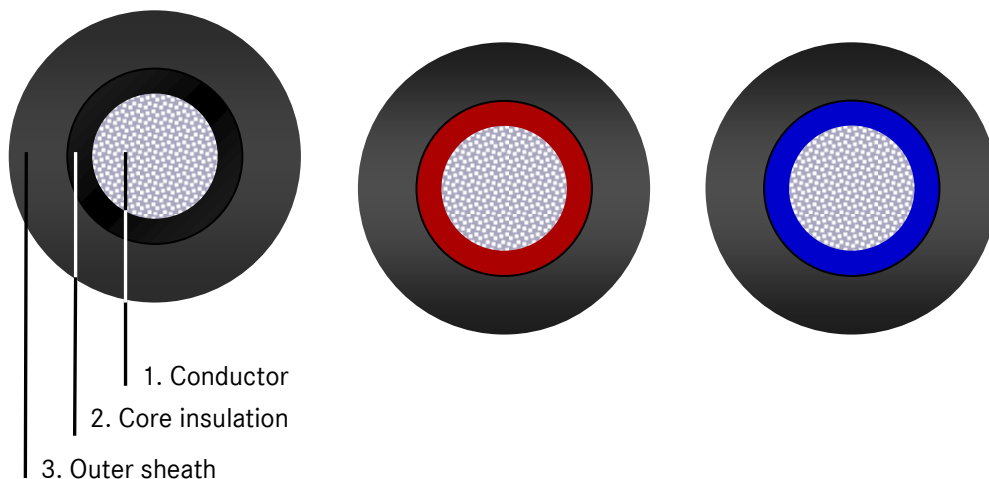
ÖLFLEX® SOLAR XLS

2. Application

ÖLFLEX® SOLAR XLS cables are double insulated cross-linked solar cables which are in addition halogen-free and flame retardant. Beside the extended temperature range the cross-linked compound materials achieve best values concerning weather-, ozone-, UV- and abrasion resistance.

ÖLFLEX® SOLAR XLS cables are developed for outdoor use for the individual connection of solar panels among themselves and for connection with the inverter.

3. Cable design



1. Conductor: Fine wire strands of tinned copper, according to IEC 60228 resp. VDE 0295, Class 5
2. Core insulation: Temperature resistant and halogen-free Co-Polyolefine, electron beam cross-linked
Colours: Black, red resp. blue
3. Outer sheath: Flame retardant and halogen-free Co-Polymere, electron beam cross-linked
highly weather- and UV resistant
Jacket colour: Black

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Nominal voltage U_0/U acc. to VDE	AC 600/1000 V / DC 900/1500 V
Max. permitted DC voltage	1,8 kV (Conductor/Conductor, unearthed system)
Test voltage	AC 4 kV
Voltage resistance tests	according to EN 50395

5. Thermal properties

Temperature range	fixed installed: -40 °C up to +100 °C max. conductor temperature
Thermal endurance test	according to EN 60216-2
High temperature pressure test	according to EN 60811-3-1
Damp heat resistance test	according to EN 60068-2-78 with 85% humidity

6. Mechanical properties

Minimum bending radius	occasional flexing: 15 x cable diameter fixed installation: 5 x cable diameter
Dynamic penetration	according to requirement specification AK 411.2.3 Annex F
Notch propagation	according to requirement specification AK 411.2.3 Annex G
Tensile strength and elongation of insulation and jacket	according to EN 60811

7. Chemical properties

Ozone resistance	according to EN 50396 part 8.1.3 Method B
Weathering- and UV resistance	according to HD 605/A1
Flame characteristics	flame retardant according to IEC 60332-1-2
Halogen-free	according to IEC 60754-1
Acid and alkaline resistance	according to EN 60811-2-1 (Oxal acid and sodium hydroxid)

8. EC Directives

The cables are conform to the EC-Directives ECD 2006/95/EC (Low Voltage Directive) and RoHS 2002/95/EC (Restriction of the use of certain hazardous substances).

9. Dimensions and versions

Originator: H. Trzebiatowski / PCM approved: H. Krämer / DC	Document: DB0025800EN	page 2 of 3
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Part No.	Core colour	Outer sheath colour	Conductor cross section	Outer diameter nominal in mm
0025800	black	black	1 X 1,5	5,4
0025801	red	black	1 X 1,5	5,4
0025802	blue	black	1 X 1,5	5,4
0025805	black	black	1 X 2,5	5,4
0025806	red	black	1 X 2,5	5,4
0025807	blue	black	1 X 2,5	5,4
0025810	black	black	1 X 4	6,0
0025811	red	black	1 X 4	6,0
0025812	blue	black	1 X 4	6,0
0025815	black	black	1 X 6	7,1
0025816	red	black	1 X 6	7,1
0025817	blue	black	1 X 6	7,1
0025820	black	black	1 X 10	8,9
0025821	red	black	1 X 10	8,9
0025822	blue	black	1 X 10	8,9
0025825	black	black	1 X 16	9,8
0025826	red	black	1 X 16	9,8
0025827	blue	black	1 X 16	9,8