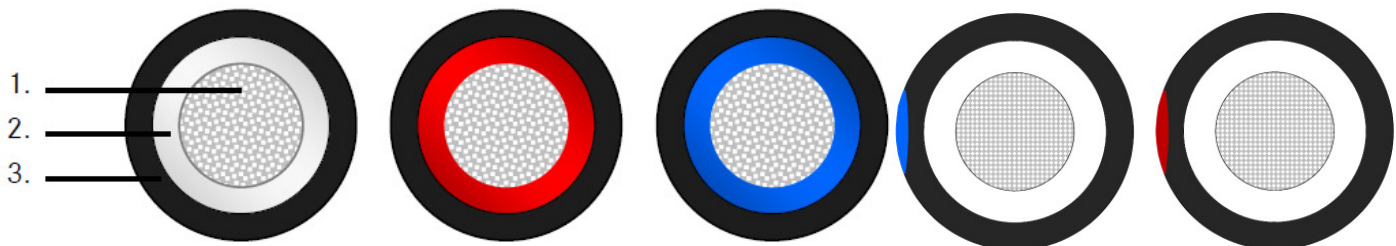


## ÖLFLEX® SOLAR XLR-R

DB 0023 175EN  
valid from: 01.04.2013**1. Application**

ÖLFLEX® SOLAR XLR-R cables are weather-, abrasion- and UV-resistant photovoltaic cables. These cross-linked, halogen free and double insulated solar cables are suitable for permanent outdoor use and especially for the interconnection of grounded and ungrounded photovoltaic power systems. They are applicable for the connection of solar panels among themselves and as extension cable between the individual module strings or the DC/AC inverter. The cable is approved by TÜV Rheinland according to 2 PFG 1169/08.2007 (PV1-F).

**2. Cable design**

- |                     |  |
|---------------------|--|
| 1. Conductor:       | Fine wire strands of tinned copper according to IEC 60228, Class 5   |
| 2. Core insulation: | Electron beam cross-linked polyolefin co-polymer<br>Colour: white, red or blue   |
| 3. Outer sheath:    | Electron beam cross-linked polyolefin co-polymer<br>Outer sheath colour: black or black with red or blue coloured stripe |

**3. Electrical properties**

Rated voltage $U_0/U$ acc. IEC	AC 600/1000 V DC 900/1500 V
Max. permissible operating voltage	DC 1800 V (conductor/conductor, non earthed system)
Working voltage DC according TÜV 2 PFG 1169/08.07	DC 1000 V
Test voltage	AC 6,5 kV

**4. Thermal properties**

Temperature range	fixed installation: -40 °C up to +120 °C (max. conductor temperature according to EN 60216-2)
Temperature range according TÜV 2 PFG 1169/08.2007	fixed installation: -40 °C up to +90 °C ambient temperature
High temperature pressure resistance	according EN 60811-3-1
Damp heat resistance	according EN 60068-2-78 at 85% humidity

**5. Mechanical properties**

Minimum bending radius	occasional flexing: 15 x cable diameter fixed installation: 5 x cable diameter
Dynamic penetration resistance	according DKE requirement specification PV1-F AK 411.2.3 Annex F
Notch propagation resistance	according DKE requirement specification PV1-F AK 411.2.3 Annex G
Tensile strength and elongation of insulation and jacket	according EN 60811

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**6. Chemical Properties**

UV and sunlight resistance	according to HD 605/A1
Ozone resistance	according to EN 50396
Halogen free	according to EN 50267
Flame retardant	according to IEC 60332-1-2
Acid and alkaline resistance	according to EN 60811-2-1 (Oxal acid and sodium hydroxid)

**7. EC Directives**

The product does not exceed the maximum concentration of certain hazardous substances in accordance to RoHS 2002/95/EG as well as 2011/65/EU (Restriction of the use of certain hazardous substances) and conforms to the EC-Directive ECD 2006/95/EC (Low Voltage Directive).

**8. Approval**

TÜV Rheinland

TÜV Type approved according 2 PFG 1169/08.2007 (PV1-F)

**9. Versions**

Part.No.	Colour insulation	Colour outer sheath	Conductor cross section [mm <sup>2</sup> ]	Outer diameter approx. [mm]
0023175	white	black	1 x 1.5	4,4
0023176	white	black	1 x 2.5	4,8
0023177	white	black	1 x 4	5,2
0023178	white	black	1 x 6	5,8
0023179	white	black	1 x 10	7,0
0023180	white	black	1 x 16	8,3
0023186	red	black	1 x 1.5	4,4
0023187	red	black	1 x 2.5	4,8
0023188	red	black	1 x 4	5,2
0023189	red	black	1 x 6	5,8
0023190	red	black	1 x 10	7,0
0023191	red	black	1 x 16	8,3
0023192	blue	black	1 x 1.5	4,4
0023193	blue	black	1 x 2.5	4,8
0023194	blue	black	1 x 4	5,2
0023195	blue	black	1 x 6	5,8
0023196	blue	black	1 x 10	7,0
0023197	blue	black	1 x 16	8,3
0023360	white	black + red stripe	1 x 2.5	4,8
0023361	white	black + red stripe	1 x 4	5,2
0023362	white	black + red stripe	1 x 6	5,8
0023363	white	black + red stripe	1 x 10	7,0
0023364	white	black + red stripe	1 x 16	8,3
0023370	white	black + blue stipe	1 x 2.5	4,8
0023371	white	black + blue stipe	1 x 4	5,2
0023372	white	black + blue stipe	1 x 6	5,8
0023373	white	black + blue stipe	1 x 10	7,0
0023374	white	black + blue stipe	1 x 16	8,3