

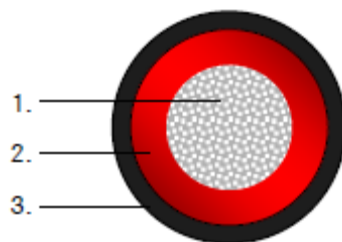
ÖLFLEX® SOLAR XLR 4703 600V

DB 0027130EN
valid from: 01.06.2011

1. Application

ÖLFLEX® SOLAR XLR 4703 600V cables are weather-, abrasion- and UV-resistant photovoltaic cables. These cross-linked, halogen free and double insulated solar cables are suitable for outdoor use and especially for interconnection of grounded and ungrounded photovoltaic power systems as described in US NFPA 70 NEC Article 690.31. They are suitable for the connection of solar panels among themselves and as extension cable between the individual module strings or the DC/AC inverter. The cables are UL Type PV listed in accordance to UL Subject 4703.

2. Cable design



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|---------------------|--|
| 1. Conductor: | Fine wire strands of tinned copper according to IEC 60228, Class 5 |
| 2. Core insulation: | Halogen free polyolefine co-polymer, electron beam cross-linked
Colour: red |
| 3. Outer sheath: | Flame retardant and halogen free polyolefin co-polymer,
electron beam cross-linked,
Jacket colour: black |

3. Electrical properties

Rated voltage acc. UL	600V
Nominal 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)

4. Thermal and mechanical properties

Temperature range acc. UL	fixed installation: -40 °C up to +90 °C
Cold bend test	according to UL 44 Clause 8.11
Flexibility at low temperatures	according UL 1581 Section 583 at -40°C
Minimum bending radius	occasional flexing: 15 x cable diameter fixed installation: 4 x cable diameter
Tensile strength and elongation of insulation and jacket	according to UL 1581
Deformation resistance	according UL 44 Clause 5.12



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5. Chemical Properties

UV and sunlight resistance	according to UL 1581 Sec. 1200 and HD 605/A1
Ozone resistance	according to EN 50396 part 8.1.3 Method B
Flame retardant	according VW-1, Vertical Flame Test FV-1, CSA FT 2 and IEC 60332-1-2
Halogen free	according to EN 50267
Acid and alkaline resistance	according to EN 60811-2-1 (Oxal acid and sodium hydroxid)

6. 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).

7. Approvals

UL Photovoltaic wire Type PV in accordance to UL Subject 4703

8. Versions

Part No.	Core colour	Outer sheath colour	Conductor cross section [mm ²]	Outer diameter nominal [mm]
0027130	red	black	1 X 2.5	5.9
0027133	red	black	1 X 4	6.4
0027136	red	black	1 X 6	6.9
0027139	red	black	1 X 10	8.9
0027142	red	black	1 X 16	10.2