

ÖLFLEX® SOLAR XLR-E SWR

HDB85 120801EN

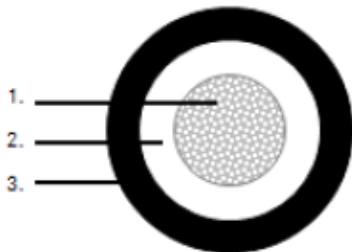
Version: 0 Date: 17 Dec. 2025

1. DESIGNATION: ÖLFLEX® SOLAR XLR-E SWR

2. APPLICATION

ÖLFLEX® SOLAR XLR-E SWR is specially designed to withstand harsh conditions such as lakes, reservoirs, and oceans. Also, this cable meet 2PFG 2962 standard. These cables are weather- and UV-resistant photovoltaic cables. These cross-linked, halogen-free and double-insulated solar cables are resistant to humidity, salt spray, mold growth, and mechanical stress, making them ideal for floating solar installations exposed to water and high humidity. They are specifically designed for floating photovoltaic systems and harsh outdoor environments. They are used for the fixed installation of photovoltaic systems with DC working voltages up to 1.8 kV to ground.

3. DESIGN



- (1) : Fine wire strands of tinned copper acc. to IEC 60228 resp. EN 60228, conductor class 5
- (2) : Electron beam cross-linked polyolefin co-polymer acc. to 2PFG 2962 / EN 50618 / IEC 62930, halogen free
Colour: white
- (2) : Electron beam cross-linked polyolefin co-polymer acc. to 2PFG 2962 / EN 50618 / IEC 62930, halogen free
Colour: black / red / blue

4. TECHNICAL DATA

Design	based on 2PFG 2962 / IEC 62930 / EN 50618 (PV1500-SWR / 62930 IEC 131 / H1Z2Z2-K)
Nominal voltage	1.0/1.0 kV AC RMS acc. to 2PFG 2962 and IEC 62930 and EN 50618 1.5/1.5 kV DC acc. to 2PFG 2962 and IEC 62930 and EN 50618
Max. permissible operating voltage	1.8 kV DC acc. to 2PFG 2962 and IEC 62930 and EN 50618
Test voltage	6.5 kV AC acc. to 2PFG 2962 and IEC 62930 and EN 50618
Minimum ambient temperature fixed installation	-40 °C
Conductor temperature, fixed installation	up to +90 °C maximum conductor temperature during normal continuous operation acc. to 2PFG 2962 and IEC 62930 and EN 50618 up to +120 °C (maximum conductor temperature limited to 20.000 hours acc. to IEC 60216-2) acc. to 2PFG 2962 and IEC 62930 and EN 50618
Minimum temperature, during installation and handling	-25 °C acc. to 2PFG 2962 and IEC 62930 and EN 50618
Max. storage temperature	+40 °C acc. to 2PFG 2962 and IEC 62930 and EN 50618

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Max. storage temperature	+45 °C acc. to IEC 62930
Max. short circuit temperature	+250 °C (5s) acc. to IEC 62930 and EN 50618
Minimum bending radius	Occasional flexing: 15 x outer diameter Fixed installation: 4 x outer diameter for outer diameter ≤ 8 mm 5 x outer diameter for outer diameter > 8 mm
Weather/UV resistance	acc. to IEC 62930, Appendix E and EN 50618, Appendix E
Ozone resistance	acc. to EN 50618 and IEC 62930
Halogen-free	acc. to EN 50618 and IEC 62930 acc. to IEC 60754-1 resp. EN 60754-1 and IEC 60754-2 resp. EN 60754-2
Smoke density	acc. to EN 50618 and IEC 62930 acc. to IEC 61034-2 resp. EN 61034-2
Salt Mist	acc. to 2PFG 2962 Annex H
Mould Growth	acc. to 2PFG 2962 Annex I
Change of Capacitance	acc. to 2PFG 2962 Annex G
Long-Term DC Insulation Resistance	acc. to 2PFG 2962 Annex D (2016 h)
Flammability	Flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2
Acid and alkali resistance	acc. to EN 50618 and IEC 62930 acc. to EN 60811-404 (oxalic acid and sodium hydroxide solution)
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)
Environmental information	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS)