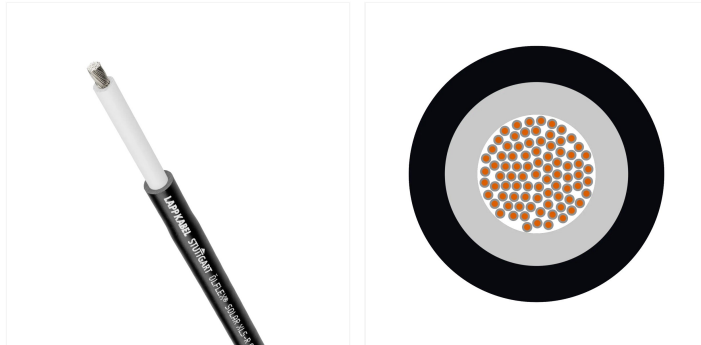


**ÖLFLEX® SOLAR XLS-R 1X6 WH/BK****Article No.:** 0023138

Solar cable; 1X6; black; 0.232 in;  $U_0/U$ : 0,6/1 kV; Electron-beam cross-linked polymer compound; -40°C - 100°C; Flexible; Halogen-free

**CE****Details****Benefits**

- Halogen free conductor insulation and jacket compound to meet special fire safety requirements.
- Cross-linked insulation and jacket materials improve durability at high temperatures.
- Space and weight saving due to small outer diameter.
- Exact quantity control during installation thanks to meter markings on the outer jacket.
- Available in three different outer jacket colors. Black-blue and black-red variants with extruded color strip for connection protected against polarity reversal.

**Application**

- For unprotected connection of solar modules and inverters in grounded and non-grounded photovoltaic systems according to IEC 60364-5-52.
- For interconnecting solar modules.
- For fixed installation and occasional flexing.
- Underground installation in protective cable conduits according to IEC 60364-5-52.
- Withstands moderate mechanical stress.

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**Notes**

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

If applicable, the prices are solid metal prices without additional charges and VAT. Sales only to business customers.

Unless specified otherwise, the product values shown are rated values at room temperature. You can receive additional values, such as tolerances, upon request if they are available and have been released for publication.

The absence of PWIS raw materials does not protect against the potential risk of contamination with substances that interfere with the paint wetting during subsequent handling of the product(s) during transport, storage or further processing after delivery.

**Remarks**

## Technical Data

**General information**

Brand	ÖLFLEX®
Product type	Solar cable
Copper index	387 lb/10000 ft
Industry segment	Solar

**Electrical parameters**

Nominal voltage	U <sub>0</sub> /U: 0,6/1 kV AC rms according to IEC U <sub>0</sub> /U: 0,9/1,5 kV DC according to IEC
test voltage	6.5 kV
Current rating according to	IEC 60364-5-52 HD 60364-5-52
Short-circuit temperature [5s]	200 °C

**Product design**

Cable dimension	1X6
Nominal cross section conductor (mm <sup>2</sup> )	6 mm <sup>2</sup>
Conductor material	Tin-plated Copper
Conductor design	IEC 60228 class 5: fine-wire

Including protective ground	No
Number of cores	1
Nominal conductor diameter	0.177 in
Min. outer diameter	0.228 in
Nominal outer diameter	0.232 in
Max. outer diameter	0.244 in
Cable form	Round
Core insulation base material	Electron-beam cross-linked polymer compound
Conductor insulation basic material, short form	XLPE
Insulation color	white
Basic material of outer jacket	Electron-beam cross-linked polymer compound
Base material of outer sheath, shortname	XLPE
Outer jacket color	black
Core identification	Colors

### Product features

Application area	Flexible Fixed Installation
Minimum bending radius, stationary	5 x outer diameter
Minimum bending radius in inch, fixed installation	1.22 in
Minimum bending radius, occasionally moved	15 x outer diameter
Minimum bending radius in mm, occasionally moved	3.661 in
Temperature, fixed installation	-40 °C to 100 °C max. conductor temperature according to IEC
Temperature, occasionally moved	-25 °C to 100 °C max. conductor temperature according to IEC
Installation temperature min.	-25 °C
Storage temperature max.	-40 °C
Storage temperature maximum	40 °C
Flame-retardant	Yes

Flame retardance according to	IEC 60332-1-2
Corrosiveness of combustion gases according to	IEC 60754-2 EN 50267-2-2
UV-resistant	Yes
UV-resistant according to	VDE 0276-605 EN 50525-1 (cables with a black jacket are suitable for permanent outdoor use)
weather resistant	Yes
Weather-resistant according to	HD 605 S2
Ozone-resistant	Yes
ozone resistant according to	EN 50396, method B
Chemical resistant	Yes
Halogenfree	Yes
Halogen-free according to	IEC 60754-1 EN 50267-2-1 IEC 60754-2 EN 50267-2-2
Oil resistant	No
PWIS-free	Yes
PWIS-free according to	VDMA 24364-B2-L
Permanently immersible in water	No

#### **Certifications and standards**

CE marking	Yes
EAC certified	Yes
EAC certification number	EA3C RU C-DE.A1064.B.00091/19
HAR-certified	No
TÜV certified	No

**ÖLFLEX® SOLAR XLS-R**

Article No.	Name	Nominal cross section conductor (mm <sup>2</sup> )	Outer jacket color	Nominal outer diameter	Copper index
0023137	ÖLFLEX® SOLAR XLS-R 1X4 WH/BK	4 mm <sup>2</sup>	black	0.209 in	258.04 lb/10000 ft
0023138	ÖLFLEX® SOLAR XLS-R 1X6 WH/BK	6 mm <sup>2</sup>	black	0.232 in	387 lb/10000 ft
0023391	ÖLFLEX® SOLAR XLSR 1X4 WH/BKRD	4 mm <sup>2</sup>	black/red	0.209 in	258.04 lb/10000 ft
0023392	ÖLFLEX® SOLAR XLSR 1X6 WH/BKRD	6 mm <sup>2</sup>	black/red	0.232 in	387.05 lb/10000 ft
0023396	ÖLFLEX® SOLAR XLSR 1X4 WH/BKBU	4 mm <sup>2</sup>	black/blue	0.209 in	258.04 lb/10000 ft
0023397	ÖLFLEX® SOLAR XLSR 1X6 WH/BKBU	6 mm <sup>2</sup>	black/blue	0.232 in	387.05 lb/10000 ft

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