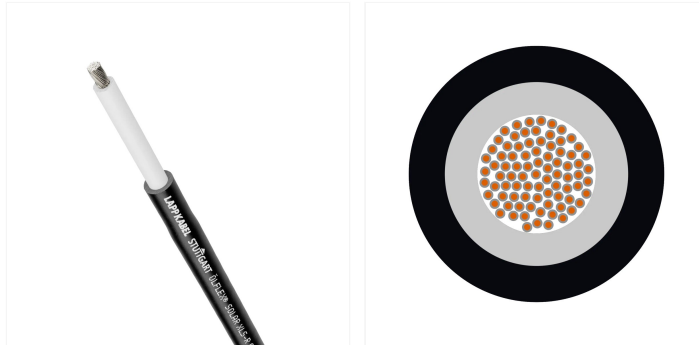


**ÖLFLEX® SOLAR XLSR 1X6 WH/BKBU****Article No.:** 0023397

Solar cable; 1X6; black/blue; 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     | 387.05 lb/10000 ft |
| Industry segment | Solar              |

**Electrical parameters**

|                                |                                                                                                          |
|--------------------------------|----------------------------------------------------------------------------------------------------------|
| Nominal voltage                | U <sub>0</sub> /U: 0,6/1 kV AC rms according to IEC<br>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<br>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/blue                                  |
| Core identification                             | Colors                                      |

### Product features

|                                                    |                                                              |
|----------------------------------------------------|--------------------------------------------------------------|
| Application area                                   | Flexible<br>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<br>EN 50267-2-2                                |
| UV-resistant                                   | Yes                                                        |
| UV-resistant according to                      | VDE 0276-605                                               |
| 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<br>EN 50267-2-1<br>IEC 60754-2<br>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 | EAЭC RU C-DE.AH064.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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