

|                           |                                    |                                                                                     |
|---------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| 1123800                   | <b>DATA SHEET</b>                  |  |
| valid from:<br>12.06.2026 | <b>ÖLFLEX® CLASSIC 128 H BK SC</b> |                                                                                     |

## Application

ÖLFLEX® CLASSIC 128 H BK SC cables are halogen free, flame retardant single-core cables for occasional flexible use and fixed installation subject to medium mechanical load conditions. They are also suitable for use in dry or damp areas.

They are suitable for outdoor use if the indicated temperature range is observed.

They are suitable for occasional, non-automated movements. The maximum tensile load is 15 N/mm<sup>2</sup> of conductor cross-section during installation and operation. Compulsory guidance is not permitted.

ÖLFLEX® CLASSIC 128 H BK SC cables are particularly used in areas, where human and animal life as well as valuable property are exposed to high risk of fire hazards. In the event of a fire minimal toxic and no corrosive gases occur.

## Design

|                          |                                                                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design                   | based on<br>EN 50525-3-11                                                                                                                                                   |
| Certification            | Classification of fire behaviour<br>according to EN 13501-6 and EN 50575<br>(article/dimension range see <a href="http://www.lappkabel.com/cpr">www.lappkabel.com/cpr</a> ) |
| Conductor                | fine wire strands of bare copper acc. to IEC 60228 resp. EN IEC 60228, class 5                                                                                              |
| Insulation               | halogen free compound TI6 acc. to EN 50363-7                                                                                                                                |
| Core identification code | black, red, white or GN/YE                                                                                                                                                  |
| Outer sheath             | halogen free compound TM7, acc. to EN 50363-8 with increased requirements<br>colour: black, similar RAL 9005                                                                |

## Electrical properties at 20 °C

|                             |                                                                           |
|-----------------------------|---------------------------------------------------------------------------|
| Specific volume resistivity | > 20 GΩ x cm                                                              |
| Nominal voltage             | EN U <sub>0</sub> /U: 600/1000 V                                          |
|                             | conductor – earth: 750 V DC<br>conductor – conductor: 1500 V DC           |
| Operating voltage           | conductor – earth: max. 900 V DC<br>conductor – conductor: max. 1800 V DC |
| Test voltage                | 4000 V AC                                                                 |

## Mechanical and thermal properties

|                        |                                                                                                                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Minimum bending radius | occasional flexing: 15 x outer diameter<br>fixed installation: 4 x outer diameter                                                                                                                 |
| Temperature range      | occasional flexing: - 5 °C up to +70 °C max. conductor temperature<br>fixed installation: - 40 °C up to +80 °C max. conductor temperature                                                         |
| Torsional stress       | Torsion movement in wind turbine generators<br>TW-0 (5000 cycles at ≥+5 °C)<br>TW-1 (2000 cycles at ≥-20 °C)<br>±150 °/m at 1 revolution per minute                                               |
| Flammability           | flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2<br>no flame propagation<br>acc. to IEC 60332-3-24 resp. EN IEC 60332-3-24 or<br>acc. to IEC 60332-3-25 resp. EN IEC 60332-3-25           |
| Halogen free           | acc. to IEC 60754-1 resp. EN 60754-1                                                                                                                                                              |
| Corrosivity of gases   | acc. to IEC 60754-2 resp. EN 60754-2                                                                                                                                                              |
| Smoke density          | acc. to IEC 61034-2 resp. EN 61034-2                                                                                                                                                              |
| Toxicity               | acc. to EN 50306-1 (≤ 6)                                                                                                                                                                          |
| UV resistance          | acc. to EN 50525-1 cables with black sheath are suitable<br>for permanent outdoor use.<br>acc. to EN 50618<br>acc. to EN 50620<br>acc. to EN ISO 4892-2-2013, method A (change of colour allowed) |
| Ozone resistance       | acc. to EN 50396, method B                                                                                                                                                                        |

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|----------------------|-----------------------|-------------|
| Creator: MAIH / PDC  | Document: DB1123800EN | Page 1 of 2 |
| Released: ALTE / PDC | Version: 05           |             |

|                           |                                    |                                                                                     |
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**Tests**

acc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396

**General requirements**

These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive).  
A part of these cables (see [www.lappkabel.com/cpr](http://www.lappkabel.com/cpr)) are classified  
acc. to the EU-Regulation no. 305/2011 (CPR).

**Environmental information**

These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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|----------------------|-----------------------|-------------|
| Creator: MAIH / PDC  | Document: DB1123800EN | Page 2 of 2 |
| Released: ALTE / PDC | Version: 05           |             |