

1123800	DATA SHEET	 <b>LAPP</b>
valid from: 16.12.2025	ÖLFLEX® CLASSIC 128 H BK SC	

## 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 EN 50525-3-11
Certification	Classification of fire behaviour according to EN 13501-6 and EN 50575 (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 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
	conductor – conductor: 1500 V DC
Operating voltage	conductor – earth: max. 900 V DC
	conductor – conductor: max. 1800 V DC
Test voltage	4000 V AC

## Mechanical and thermal properties

Minimum bending radius	occasional flexing: 15 x outer diameter fixed installation: 4 x outer diameter
Temperature range	occasional flexing: - 5 °C up to +70 °C max. conductor temperature fixed installation: - 40 °C up to +80 °C max. conductor temperature
Torsional stress	Torsion movement in wind turbine generators TW-0 (5000 cycles at ≥ +5 °C) TW-1 (2000 cycles at ≥ -20 °C) ±150 °/m at 1 revolution per minute
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2 no flame propagation acc. to IEC 60332-3-24 resp. EN IEC 60332-3-24 or 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 for permanent outdoor use. acc. to EN 50618 acc. to EN 50620 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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<b>Tests</b>	acc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396
<b>General requirements</b>	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive). A part of these cables (see <a href="http://www.lappkabel.com/cpr">www.lappkabel.com/cpr</a> ) are classified acc. to the EU-Regulation no. 305/2011 (CPR).
<b>Environmental information</b>	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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