

1120232	<b>DATA SHEET</b>	 <b>LAPP</b>
valid from: 21.05.2024	<b>ÖLFLEX® CLASSIC 110 BLACK 0,6/1kV</b>	

## Application

ÖLFLEX® CLASSIC 110 BLACK 0,6/1kV cables are power and control cables with a black outer sheath for occasional flexible use and fixed installation subject to medium mechanical load conditions. They are also suitable for use in dry, damp or wet areas. They are suitable for outdoor use if the indicated temperature range is observed. They are largely resistant to acids, alkalis and (certain) oils at room temperature. ÖLFLEX® CLASSIC 110 BLACK 0,6/1kV cables 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.

Application range: Plant engineering and construction, industrial machinery, heating air conditioning systems, power station, stage application.

The cables are suitable for torsion application in wind turbines (WTG). The torsional load is limited to applications, as they typically occur in the loop of a wind turbine.

## Design

Design	based on VDE 0250-1 and VDE 0276-627 resp. HD 627 S1
Certification	EN 13501-6 and EN 50575 Classification of fire behaviour (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 60228, class 5
Insulation	PVC compound TI2 acc. to EN 50363-3 with increased requirements acc. to Lapp specification
Core identification code	acc. to VDE 0293-1, with or without GN/YE ground conductor black cores with white numbers acc. to EN 50334
Stranding	cores are stranded in layers
Outer sheath	PVC compound TM2 acc. to EN 50363-4-1 colour: black, similar RAL 9005

## Electrical properties at 20 °C

Specific volume resistivity	> 20 G Ω x cm
Nominal voltage	U <sub>0</sub> / U: 600 / 1000 V
Test voltage	core / core: 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 temp. fixed installation: -40 °C up to +80 °C max. conductor temp.
Torsional stress	Torsion movement in wind turbine generators TW-0 (5000 cycles at $\geq$ +5 °C) TW-1 (2000 cycles at $\geq$ -20 °C) $\pm$ 150 °/m at 1 revolution per minute
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2
UV resistance	acc. to EN ISO 4892-2, Method A, EN 50289-4-17, Method A
Ozone resistance	acc. to EN 50396, method B

## Tests

### General requirements

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

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 in accordance with the EU-Regulation no. 305/2011 (CPR).

### Environmental information

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

AbN  
automation

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