#### 1120450

# DATA SHEET

valid from: 21.05.2024

ÖLFLEX® CLASSIC 100 BK 0,6/1 kV



## **Application**

ÖLFLEX® CLASSIC 100 BK 0,6/1 kV cables are cold flexible power and control cables for occasional flexible use and fixed installation under medium mechanical load conditions. They are among others designed for use in dry, damp and wet conditions. If using outdoors, observe the indicated temperature range.

ÖLFLEX® CLASSIC 100 BK 0,6/1 kV cables are suitable for occasional, non-automated movements, even at low temperatures. The maximum tensile load is 15 N/mm² of conductor cross-section during installation and operation. Compulsory guidance is not permitted. Application range: Plant engineering and construction, industrial machinery, air conditioning installations, paint-spray lines and stage technology.

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 0276-627 resp. HD 627 S1 and EN 50525-2-51

Certification EN 13501-6 and EN 50575

Classification of fire behaviour

(article/dimension range see www.lappkabel.com/cpr)

Conductor fine wire strands of bare copper acc. to IEC 60228 resp. EN 60228, class 5

Insulation cold-flexible PVC compound

Core identification code acc. to. VDE 0293-1, with or without GN/YE ground conductor

up to 5 cores: acc. to HD 308 S2

from 6 cores: acc. to LAPP ÖLFLEX® color code

Stranding cores are stranded in layers

Outer sheath cold-flexible PVC compound colour: black, similar RAL 9005

### Electrical properties at 20 °C

Specific volume resistivity > 20 G  $\Omega$  x cm Nominal voltage Uo / 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: - 30°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 ≥+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 UV resistance acc. to EN 50525-1 cable 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

Testsacc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396General requirementsThese cables are conform to the EU-Directive 2014/35/EU

(Low Voltage Directive).

A part of these cables (see 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).

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