#### 0014150

### DATA SHEET

valid from: 16.06.2025

ÖLFLEX® CLASSIC 100 H



#### **Application**

ÖLFLEX® CLASSIC 100 H are halogen free, highly flame retardant, oil resistant power cables for occasional flexible use and fixed installation subject to medium mechanical load conditions. They are among others designed for use in dry and humid conditions. They are suitable for permanent outdoor use if the indicated temperature range is observed.

They are suitable for occasional, non-automated movements. The maximum tensile load is 15 N/mm² of conductor cross-section during installation and operation. Compulsory guidance is not permitted.

Application range:

Public buildings, airport, railway station, plant engineering, industrial machinery, heating and air-conditioning systems and particularly where human and animal life as well as valuable property are exposed to high risk of fire hazards.

Design

Design based on

EN 50525-3-11 EN 50525-2-31 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 IEC 60228, class 5

Insulation halogen free compound TI6,

acc. to EN 50363-7, with increased requirements

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

up to 5 cores: coloured acc. to VDE 0293-308

Cable assembly cores are stranded in layers

Outer sheath halogen free compound TM7, acc. to EN 50363-8, with increased requirements

colour: silver grey, similar RAL 7001

Electrical properties at 20 °C

Nominal voltage EN U₀/U: 450/750 V

fixed and protected installation: 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 temperature

fixed installation: -40 °C up to +80 °C max. conductor temperature

Torsional stress in WTG:

TW-0 (5.000 cycles at  $\geq$  + 5 °C) TW-2 (2.000 cycles at  $\geq$  -40 °C)  $\pm$  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 60332-3-24 or acc. to IEC 60332-3-25 resp. EN 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 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
Oil resistance acc. to EN 50363-4-1 (TM5)
UL OIL RES I und OIL RES II

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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) 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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