# 10035030 DATA SHEET

valid from: 01.01.2019

# ÖLFLEX® CLASSIC 110 CH



## **Application**

ÖLFLEX® CLASSIC 110 CH are screened, halogen free, oil resistant, highly flame retardant, power and control cables, designed for the European and North American market, for occasional flexible use and fixed installation subject to normal mechanical load conditions. They are among others for use in dry and damp rooms. Considering the temperature range, a temporary outdoor use is possible. 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.

ÖLFLEX® CLASSIC 110 CH 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. The screen is a protection against electrical interference.

#### Application range:

public buildings like airports or railway stations; plant engineering, industrial machinery; heating and air conditioning systems, stage applications; in EMC sensitive environments (electromagnetic compatibility)

USE according to UL: FRPE sheathed cable for internal wiring of appliances and external interconnection of electronic equipment.

### Design

Design acc. to UL AWM Style 21089, UL 758 and

based on EN 50525-3-11 resp. VDE 0285-525-3-11

EN 50525-2-51 resp. VDE 0285-525-2-51

Certification UL AWM Style 21089 (File No. 63634), UL 758

GL-Germanischer Lloyd (Certificate No. 11119-14 HH)

VDE certified: supply cable with improved characteristics in case of

fire and increased oil resistance 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. VDE 0295, Class 5

Insulation halogen free compound TI6, polyolefin based,

acc. to EN 50363-7 resp. VDE 0207-363-7, with increased requirements

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

black cores with white numbers acc. to DIN EN 50334 resp. VDE 0293-334

Stranding cores are stranded in layers
Taping non-woven wrapping optional

Inner sheath halogen-free compound TM7, polyolefin based, acc. to EN 50363-8 resp.

VDE 0207-363-8 with increased requirements

Colour: Silver Grey, similar RAL 7001

Screen braid of tinned copper, coverage = 85% (nominal value)

Outer sheath halogen free compound HM2, polyolefin based, acc. to DIN VDE 0250-214,

with increased requirements

LAPP special compound LP Ultraflex FR Colour: Silver Grey, similar RAL 7001

### Electrical properties at 20°C

Rated voltage  $VDE U_0 / U: 300 / 500 V$ 

UL: 600 V

Test voltage core / core: 4000 V AC core / screen: 4000 V AC

### Mechanical and thermal properties

Minimum bending radius occasional flexing: 15 x outer diameter

fixed installation: 6 x outer diameter

Temperature range occasional flexing (VDE): -30 °C up to +70 °C max. conductor temp.

occasional flexing (UL): up to +75 °C max. conductor temp. fixed installation (VDE): -40 °C up to +80 °C max. conductor temp. fixed installation (UL): up to +75 °C max. conductor temp.

Flammability acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2

UL: Cable flame test no flame-propagation

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acc. to IEC 60332-3-22 resp. VDE 0482-332-3-22 acc. to IEC 60332-3-24 resp. VDE 0482-332-3-24 or acc. to IEC 60332-3-25 resp. VDE 0482-332-3-25

Halogen freeacc. to IEC 60754-1 resp. VDE 0482-754-1Corrosivity of gasesacc. to IEC 60754-2 resp. VDE 0482-754-2Smoke densityacc. to IEC 61034-2 resp. EN 61034-2Toxicityacc. to NES 713-3, EN 50306-1 (≤ 3)UV resistanceacc. to EN 50620 resp. VDE 0285-620

acc. to EN ISO 4892-2-2013, method A (change of colour allowed)

Ozone resistance acc. to EN 50396 resp. VDE 0473-396, method B
Oil resistance acc. to EN 50363-4-1 resp. VDE 0207-363-4-1 (TM5)

UL OIL RES I und OIL RES II

Tests acc. to IEC 60811, EN 50395, EN 50396, UL 1581

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).

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