DATA SHEET

valid from: 24.06.2021

10036001

ÖLFLEX® CLASSIC 115 CH



Application

ÖLFLEX® CLASSIC 115 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 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. They meet the requirements for slow rotational movements, such as in the loop of a wind turbine. The maximum tensile load is 15 N/mm² of conductor cross-section during installation and operation. Compulsory guidance is not permitted. The screen is a protection against electrical interference.

Application range:

Public buildings, airports, railway stations, plant engineering and construction, air conditioning systems and particularly 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. This cable is 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.

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

EN 50525-2-51

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

EN 13501-6 und EN 50575 Klassifizierung des Brandverhaltens

(Artikel/Abmessungsspektrum s. www.lappkabel.de/cpr)

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

Insulation halogen free compound Tl6, polyolefin based,

acc. to EN 50363-7, 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

Taping plastic foil

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

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

with increased requirements

Colour: silver grey, similar RAL 7001

Electrical properties at 20 °C

Specific volume resistivity $> 20 \text{ G} \Omega \text{ x cm}$

core / screen: 2000 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 (EN): -30 °C up to +70 °C max. conductor temperature

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

Torsional stress in WTG:

TW-0 (5000 cycles at $\geq +5$ °C) TW-1 (2000 cycles at ≥ -20 °C) ± 150 °/m at 1 revolution per minute

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Released: ALTE / PDC Version: 2

Page 1 of 2

DATA SHEET

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Flammability flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2

UL: Cable flame test 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 freeacc. to IEC 60754-1 resp. EN 60754-1Corrosivity of gasesacc. to IEC 60754-2 resp. EN 60754-2Smoke densityacc. to IEC 61034-2 resp. EN 61034-2Toxicityacc. to NES 713-3, EN 50306-1 (≤ 3)

UV resistance acc. to EN 50620

10036001

Tests

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

acc. to IEC 60811 resp. EN 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

acc. to 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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Page 2 of 2