U.I. Lapp GmbH

DATA SHEET



ÖLFLEX® CLASSIC 110

DB 1119752 valid from: 2014-01-27

Application

ÖLFLEX[®] CLASSIC 110 cables are VDE approved power and control cables for occasional flexible use and fixed installation for normal mechanical stresses. They are among others designed for use in dry, damp and wet rooms. Outdoor use: They may only be installed with UV protection and considering the temperature range. At room temperature they are widely resistant to acids, alkali-resistant and resistant to certain oils. They are suitable for free and limited continuously recurring movement without tensile load or compulsory guidance.

Application range:

As power and connecting cable for control systems in machine tools, plant engineering and construction, industrial machinery, conveyor systems, production and assembly lines as well as in measuring and control technology and data processing systems.

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.

Design

Design based on EN 50525-2-51/VDE 0285-525-2-51/HD 21.13 S1+A1/VDE 0281-13

Approval VDE REG.-Nr. 7030

limited to following dimension range: 0.5 mm^2 - 2.5 mm^2 2 - 65 cores 4 mm^2 - 16 mm^2 2 - 7 cores 25 mm^2 - 120 mm^2 2 - 5 cores

Conductor fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5

Core insulation LAPP special PVC compound P8/1

TI2 acc. to EN 50363-3 resp. VDE 0207-363-3 with increased requirements

Core identification 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

Outer sheath PVC compound TM2 acc. to EN 50363-4-1 resp. VDE 0207-363-4-1

with increased requirements acc. to LAPP specification

colour: Silver Grey, similar RAL 7001

Electrical properties

Nominal voltage 300 / 500 V

Test voltage 4000 V AC

Mechanical and thermal properties

Min. bending radius occasional flexing: $10 \times \text{cable } \emptyset$

fixed installation: $4 \times \text{cable } \emptyset$

Temperature range occasional flexing: -15 °C up to +70 °C max. conductor temp.

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

Originator: KASC / PDC
approved: HAPF / PDC

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Power chain limited to 2-7 cores and 0.5 – 2.5 mm²

min. bending radius 15 x cable \emptyset

temperature range -5 °C up to +70 °C max. conductor temp.

travelling distance up to 5 m 0.2 ... 1 million bending cycles

Torsion movement in WTG TW-0 (5000 cycles at $\geq +5$ °C)

TW-1 (2000 cycles at \geq -20°C)

± 150 °/m at 1 revolution per minute

Flammability flame retardant in acc. with IEC 60332-1-2 resp. VDE 0482-332-1-2

Oil resistance acc. to DIN EN 50290-2-22 bzw. VDE 0819-102, TM54

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

EC-Directives This cable is conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and

2002/95/EC and 2011/65/EC (RoHS, Restriction of the use of certain hazardous sub-

stances).

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