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1119752	DATA SHEET	LAPP
valid from: 20.11.2024	ÖLFLEX® CLASSIC 110	

Application

ÖLFLEX® CLASSIC 110 cables are VDE approved control cables for occasional flexible use and fixed installation for medium mechanical load conditions. They are also suitable for use in dry, damp or wet areas. If using outdoors, observe the indicated temperature range and use with UV protection. They are largely resistant to acids, alkalis and certain oils at room temperature.
ÖLFLEX® CLASSIC 110 cables are limited suitable for free and continuously recurring movements. The maximum tensile load is 15 N/mm² of conductor cross-section during installation and operation. Compulsory guidance is not permitted.

Application range:
As 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. The torsional load is limited to applications, which are typical for the loop in wind turbine generators (WTG).

Design

Design	based on EN 50525-2-51
Certification	⊲ VDE-REG 7030 ⊳ limited to following dimension range: 0.5 mm² - 2.5 mm² 2 - 65 cores 4 mm² - 16 mm² 2 - 7 cores 25 mm² - 120 mm² 2 - 5 cores 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	PVC compound TI2 acc. to EN 50363-3 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
Cable assembly	cores are stranded in layers
Outer sheath	PVC compound TM2 acc. to EN 50363-4-1 with increased requirements acc. to LAPP specification colour: Silver Grey, similar RAL 7001

Electrical properties at 20 °C

Nominal voltage	U_0 /U: 300/500V
Test voltage	core / core: 4000 V AC

Mechanical and thermal properties

Minimum bending radius	occasional flexing: 10 x outer diameter fixed installation: 4 x outer diameter
Temperature range	occasional flexing: - 15 °C up to +70 °C max. conductor temp. Fixed installation: - 40 °C up to +80 °C max. conductor temp.
Bending cycles and power chain operation parameters	Power chain limited to 2-7 cores and 0.5 – 2.5 mm² Min. bending radius: 15 x outer diameter temperature range: -5 °C up to +70 °C max. conductor temp. Travelling distance up to 5 m: 0.2 ... 1 million bending cycles
Torsional stress	in WTG: 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
Oil resistance	acc. to EN 50290-2-22 TM54
Tests	acc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396

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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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