


1119809	DATA SHEET	
valid from: 02.12.2019	ÖLFLEX® CLASSIC 110 [black]	

Application

ÖLFLEX® CLASSIC 110 [black] cables are VDE approved power and control cables for occasional flexible use and fixed installation for medium mechanical stresses. They are among others designed for use in dry, damp and wet conditions. They are suitable for outdoor use if the indicated temperature range is observed. They are largely resistant to acids, alkalis and certain oils at room temperature. ÖLFLEX® CLASSIC 110 [black] 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 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 typical occur in the loop of a wind turbine.

Design

Design	based on EN 50525-2-5 1 resp. VDE 0285-525-2-5 1
Certification	< VDE-REG 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 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	LAPP special PVC compound P8/1 T12 acc. to EN 50363-3 resp. VDE 0207-363-3 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 DIN EN 50334 resp. VDE 0293-334
Stranding	cores are stranded in layers
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: black, similar RAL 9005


Electrical properties at 20°C

Nominal voltage	U ₀ / U: 300 / 500 V
Test voltage	core / core: 4000 V AC

Mechanical and thermal properties

Minimum bending radius	occasional flexing: 10 x cable diameter in power chains: 15 x cable diameter fixed installation: 4 x cable 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 mm ² 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. VDE 0482-332-1-2
UV resistance	acc. to EN 50525-1 (VDE 0285-525-1) cable with black sheath are suitable for permanent outdoor use. acc. to EN 50618 resp. VDE 0283-618 acc. to EN 50620 resp. VDE 0285-620 acc. to EN ISO 4892-2-2013, method A (change of colour allowed)

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Oil resistance

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

Tests

acc. to IEC 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).

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PD 0019/05_04.18EN



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