11101106 DATA SHEET

valid from: 25.03.2019 ÖLFLEX® DC 100



Application

ÖLFLEX® DC 100 cables are connecting cables for occasional flexible use and fixed installation subject to medium mechanical load conditions.

They are among others designed for use in dry, damp and wet areas.

They are suitable for outdoor use if the indicated temperature range is observed.

They are largely resistant to acids, alkalis and oils at room temperature.

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.

Application range: connection cable for electrical systems which are operated with direct voltage.

Design



Design based on VDE 0250-1, VDE 0262

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

Conductor bare copper, fine wire strand in acc. with IEC 60228 resp. VDE 0295, Class 5

Insulation PVC compound TI2 acc. to EN 50363-3 resp. VDE 0207-363-3

with increased requirements acc. to Lapp specification

Core identification code coloured cores: red (L+); white (L-); GNYE

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

colour: black, similar RAL 9005

Electrical properties at 20°C

Specific volume resistivity > 20 G Ω x cm

Nominal voltage conductor – earth: 750 V DC

conductor - conductor: 1500 V DC

Operating voltage conductor - earth: max. 900 V DC

conductor - conductor: max. 1800 V DC

Test voltage core/core: 4000 V AC

Mechanical and thermal properties

Minimum bending radius occasional flexing: 15 x cable diameter

fixed installation: 4 x cable diameter

Temperature range occasional flexing: -5°C up to +70°C max. conductor temp.

fixed installation: - 40 °C up to +80 °C max. conductor temp. flame retardant acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2

Flammability flame retardant acc. to IEC 60332-1-2 resp. VDE 04
UV resistance 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)

Ozone resistance acc. to EN 50396 resp. VDE 0473-396, method B

Tests acc. to IEC 60811 resp. VDE 0473-811, VDE 0472, EN 50395, EN 50396

General requirements These cables are conform to the EU-Directive 2014/35/EU

(Low Voltage Directive).

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