



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.

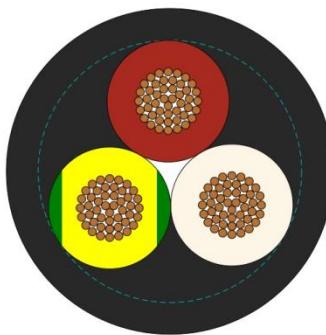
They are suitable for outdoor use if the indicated temperature range is observed.

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.
Flammability	flame retardant acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2
UV resistance	acc. to EN 50618 resp. VDE 0283-618 acc. to EN 50620 resp. VDE 0285-620
Ozone resistance	acc. to EN ISO 4892-2-2013, method A (change of colour allowed)
Tests	acc. to EN 50396 resp. VDE 0473-396, method B
General requirements	acc. to IEC 60811 resp. VDE 0473-811, VDE 0472, EN 50395, EN 50396 These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive).

AbN
automation