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0015003	DATA SHEET	LAPP
valid from: 15.12.2023	ÖLFLEX® 150	

Application

ÖLFLEX® 150 cables are oil resistant power and control cables for the European, North American and Canadian market, for occasional flexible use and fixed installation to normal 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.
ÖLFLEX® 150 cables are increased resistant to oils and at room temperature largely resistant to acids and alkalis. 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:
plant engineering, industrial machinery, heating and air conditioning systems and machine tools
HAR: EN 50565-1 and EN 50565-2
acc. to UL:PVC-sheathed cables for external interconnection or internal wiring of electric and electronic equipment, use when getting in contact with oil not above +80 °C (80 °C oil rating)
acc. CSA:CSA AWM I A/B II A/B, cables for internal or external interconnection with or without mechanical load

Design

Design	≤ 60 cores: acc. to EN 50525-2-51 ≥ 61 cores: based on EN 50525-2-51 UL AWM Style 21098, UL 758, CSA C22.2 No. 210-15
Certification	UL AWM Style 21098 (File No. E63634), UL 758 CSA AWM I A/B II A/B (File No. LL53776) ≤ 60 cores: acc. to H05VV5-F acc. to EN 50525-2-51 ≥ 61 cores: based on EN 50525-2-51 Classification of fire behaviour according to EN 13501-6 and EN 50575 (article/dimension range see www.lappkabel.com/cpr)
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. EN 60228, class 5
Insulation	PVC compound TI2 acc. to EN 50363-3 (UL/CSA 90°C rating)
Core identification code	acc. to VDE 0293-1, with or without GN/YE ground conductor black cores with white numbers acc. to EN 50334
Outer sheath	PVC compound TM5 acc. to EN 50363-4-1 (UL/CSA 90°C rating) colour: silver grey, similar RAL 7001

Electrical properties at 20 °C

Nominal voltage	U_0 / U acc. to HAR: 300 / 500 V U acc. to UL / CSA: 600 V
Test voltage	core / core: 3000 V AC

Mechanical and thermal properties

Minimum bending radius	occasional flexing: 12,5 x cable diameter fixed installation: 4 x cable diameter
Temperature range	occasional flexing: acc. to HAR -5 °C up to +70 °C max. conductor temperature acc. to UL / CSA up to +90 °C max. conductor temperature fixed installation: acc. to HAR -40 °C up to +70 °C max. conductor temperature acc. to UL / CSA up to +90 °C max. conductor temperature
Flammability	HAR: acc. to IEC 60332-1-2 resp. EN 60332-1-2 UL: vertical flame test VW-1 CSA: FT1
Oil resistance	TM 5 acc. to EN 50363-4-1 UL: 80 °C rating acc. to UL 758 CSA: CSA 22.2 No. 210-15
Tests	acc. to IEC 60811, EN 50395, EN 50396, UL 1581and CSA 22.2

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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 acc. to 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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