

0015003	DATA SHEET	
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	<p>≤ 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</p>
Certification	<p>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</p>
Conductor	<p>Classification of fire behaviour according to EN 13501-6 and EN 50575 (article/dimension range see www.lappkabel.com/cpr)</p>
Insulation	<p>fine wire strands of bare copper, acc. to IEC 60228 resp. EN 60228, class 5</p>
Core identification code	<p>PVC compound TI2 acc. to EN 50363-3 (UL/CSA 90°C rating)</p>
Outer sheath	<p>acc. to VDE 0293-1, with or without GN/YE ground conductor black cores with white numbers acc. to EN 50334</p>
	<p>PVC compound TM5 acc. to EN 50363-4-1 (UL/CSA 90°C rating) colour: silver grey, similar RAL 7001</p>

Electrical properties at 20 °C

Nominal voltage	<p>U₀ / U acc. to HAR: 300 / 500 V U acc. to UL / CSA: 600 V</p>
Test voltage	<p>core / core: 3000 V AC</p>

Mechanical and thermal properties

Minimum bending radius	<p>occasional flexing: 12,5 x cable diameter fixed installation: 4 x cable diameter</p>
Temperature range	<p>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</p> <p>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</p>
Flammability	<p>HAR: acc. to IEC 60332-1-2 resp. EN 60332-1-2 UL: vertical flame test VW-1 CSA: FT1</p>
Oil resistance	<p>TM 5 acc. to EN 50363-4-1 UL: 80 °C rating acc. to UL 758 CSA: CSA 22.2 No. 210-15</p>

Tests acc. to IEC 60811, EN 50395, EN 50396, UL 1581 and CSA 22.2

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General requirements

These cables 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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