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: DIN EN 50565-1 resp. VDE 0298-565-1 and DIN EN 50565-2 resp. VDE 0298-565-2
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 resp. VDE 0285-525-2-51 ≥ 61 cores: based on EN 50525-2-51resp. VDE 0285-525-2-51 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. LL 53776) ≤ 60 cores: acc. to H05VV5-F acc. to EN 50525-2-51 resp. VDE 0285-525-2-51 ≥ 61 cores: based on EN 50525-2-51 resp. VDE 0285-525-2-51
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5
Insulation	PVC compound TI2 acc. to DIN EN 50363-3 resp. VDE 0207-363-3 (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 DIN EN 50334 resp. VDE 0293-334
Outer sheath	PVC compound TM5 acc. to DIN EN 50363-4-1 resp. VDE 0207-363-4-1 (UL/CSA 90°C rating) colour: silver grey, similar RAL 7001

Electrical properties at 20°C

Rated voltage	U_0 / U in 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 temp. acc. to UL / CSA -5 °C up to +90 °C max. conductor temp. fixed installation: acc. to HAR -40 °C up to +70 °C max. conductor temp. acc. to UL / CSA up to +90 °C max. conductor temp.
Flammability	HAR: acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2 UL: vertical flame test VW-1 CSA: FT1
Oil resistance	TM 5 acc. to DIN EN 50363-4-1 resp. VDE 0207-363-4-1 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
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)

We reserve all rights according to DIN ISO 16016.