0012900	DATA SHEET	LAPP
valid from: 10.11.2026	ÖLFLEX® 440 CP	

Application

ÖLFLEX® 440 CP cables are cold flexible oil-resistant control cables with a core insulation of TPE and an outer sheath of Polyurethane for flexible use and fixed installation under increased mechanical load conditions. They are also suitable for use in dry, damp or wet areas. They are suitable for outdoor use if the indicated temperature range is observed. They are suitable for constant use in fresh water to a depth of 10 m and at a maximum water temperature of 40°C according to EN 50565-2.
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.
ÖLFLEX® 440 CP cables are increased resistant to oils and at room temperature largely resistant to acids and alkalis.
The outer sheath withstands high mechanical stresses, in particular abrasion and dragging. It is also cut proof and resists microbes and hydrolysis. The screening braid protects against interference from electrical fields.
All materials used are halogen-free.

Application range: Construction machinery, machine tools, transfer lines, production plants and submersible pumps.

Design

Design	based on standard EN 50525-2-21 EN 50525-2-51
Certification	⊲ VDE-REG 6582 ⊳
Conductor	fine wire strands of tinned copper acc. to IEC 60228 resp. EN IEC 60228, class 5
Insulation	Thermoplastic elastomer (TPE)
Core identification code	black cores with white numbers with or without GN/YE ground conductor acc. to DIN EN 50334
Inner sheath	Thermoplastic elastomer (TPE)
Screen	braid of tinned copper, coverage = 85% (nominal value)
Outer sheath	Polyurethane compound TMPU in acc. to EN 50363-10-2 colour: silver grey, similar RAL 7001

Electrical properties at 20 °C

Transfer impedance	max. 250 mΩ/m (at 30 MHz)
Nominal voltage	U_0 /U: 300 / 500 V
Test voltage	3000 V AC

Mechanical and thermal properties

Minimum bending radius	occasional flexing: 15 x outer diameter fixed installation: 6 x outer diameter
Temperature range	occasional flexing: -40 °C up to +90 °C max. conductor temperature fixed installation: -50 °C up to +90 °C max. conductor temperature
Flammability	acc. to IEC 60332-1-2 resp. EN 60332-1-2
Halogen free	acc. to IEC 60754-1 resp. EN 60754-1
UV resistance	acc. to EN 50618 acc. to EN 50620 acc. to EN ISO 4892-2-2013, method A (change of colour allowed)
Oil resistance	acc. to EN 50363-10-2
MUD resistance	acc. to IEC 61892-4 Annex D
Water-resistance	acc. to EN 50525-2-21

Tests	acc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)
Environmental information	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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