

0012800	<b>DATA SHEET</b>	
valid from: 01.01.2019	<b>ÖLFLEX® 440 P</b>	

## Application

ÖLFLEX® 440 P cables are cold flexible oil-resistant control cables with a core insulation of TPE and an outer sheath of Poly-urethane for flexible use and fixed installation under increased mechanical load conditions. They are also suitable for use in dry, damp or wet areas. These products 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/mm<sup>2</sup> of conductor cross-section during installation and operation. Compulsory guidance is not permitted. ÖLFLEX® 440 P 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. 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 bzw. VDE 0285-525-2-21 EN 50525-2-51 bzw. VDE 0285-525-2-51
Certification	up to and inclusive 2,5 mm <sup>2</sup> : < VDE-REG 6582 >
Conductor	fine wire strands of tinned copper acc. to IEC 60228 resp. VDE 0295, 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 resp. VDE 0293-334
Outer sheath	Polyurethane compound TMPU in acc. to EN 50363-10-2 resp. VDE 0207-363-10-2 colour: silver grey, similar RAL 7001

## Electrical properties at 20°C

Rated voltage	U <sub>0</sub> / U: 300 / 500 V
Test voltage	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: -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. VDE 0482-332-1-2
Halogen free	acc. to VDE 0472-815
UV resistance	acc. to EN 50618 resp. VDE 0283-618 acc. to EN 50620 resp. VDE 0285-620 acc. to EN ISO 4892-2-2013, method A (change of colour allowed)
Oil resistance	acc. to EN 50363-10-2 resp. VDE 0207-363-10-2
MUD resistance	acc. to IEC 61892-4 Annex D
Water-resistance	acc. to EN 50525-2-21 resp. VDE 0285-525-2-21
Tests	acc. to IEC 60811, EN 50395, EN 50396
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)

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