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| 0012900 | DATA SHEET |  |
| valid from: 01.01.2019 | 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

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| 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 ² : < 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 |
| 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 resp. VDE 0207-363-10-2 colour: silver grey, similar RAL 7001 |

Electrical properties at 20°C

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| Rated voltage | U ₀ / U: 300 / 500 V |
| Test voltage | 3000 V AC |

Mechanical and thermal properties

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| Minimum bending radius | occasional flexing: 15 x cable diameter fixed installation: 6 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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