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|---------------------------|----------------------|---|
| 1308802                   | <b>DATA SHEET</b>    |  |
| valid from:<br>01.01.2019 | <b>ÖLFLEX® 408 P</b> |   |

## Application

ÖLFLEX® 408 P cables are VDE approved power and control cables for occasional flexible use and fixed installation subject to normal 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. ÖLFLEX® 408 P cables are increased oil resistant and at room temperature largely resistant to acids and caustic solutions. The outer sheath withstands high mechanical stresses, in particular abrasion and dragging. It is also cut proof and resists microbes and hydrolysis. They are suitable for occasional, non-automated move-ments. The maximum tensile load is 15 N/mm<sup>2</sup> of conductor cross-section during installation and operation. Compulsory guidance is not permitted.

### Application range:

As power and connecting cable for control systems in machine tools, plant engineering and construction, industrial machinery, conveyor systems, production and assembly lines as well as in measuring and control technology and data processing systems.

## Design

|                          |  |
|--------------------------|--|
| Design                   | based on EN 50525-2-51 (VDE 0285-525-2-51)   |
| Certification            | < VDE-REG 8744 ><br>limited to following dimension range:<br>0.5 mm <sup>2</sup> - 2.5 mm <sup>2</sup> 2 - 25 cores<br>4 mm <sup>2</sup> - 6 mm <sup>2</sup> 2 - 7 cores<br>10 mm <sup>2</sup> 4 - 7 cores<br>16 mm <sup>2</sup> 4 cores                 |
| Conductor                | fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5  |
| Insulation               | PVC compound T12 acc. to VDE 0207-363-3 with increased requirements acc. to Lapp specification   |
| Core identification code | acc. to VDE 0293-1, with or without GN/YE ground conductor<br>black cores with white numbers acc. to DIN EN 50334 (VDE 0293-334)   |
| Outer sheath             | two layer design:<br>Inner layer: PVC compound TM2            acc. to VDE 0207-363-4-1<br>Outer layer: TPU Polyurethane            acc. to VDE 0207-363-10-2<br>Colour: Inner layer black, similar RAL 9005<br>Outer layer silver grey, similar RAL 7001 |

## Electrical properties at 20°C

|               |                                 |
|---------------|---------------------------------|
| Rated voltage | U <sub>0</sub> / U: 300 / 500 V |
| Test voltage  | 4000 V AC                       |

## Mechanical and thermal properties

|                        |   |
|------------------------|---|
| Minimum bending radius | occasional flexing: 12,5 x cable diameter<br>fixed installation: 4 x cable diameter   |
| Temperature range      | occasional flexing: -15 °C up to +70 °C max. conductor temp.<br>fixed installation: -40 °C up to +80 °C max. conductor temp.                  |
| UV resistance          | acc. to EN 50618 resp. VDE 0283-618<br>acc. to EN 50620 resp. VDE 0285-620<br>acc. to EN ISO 4892-2-2013, method A (change of colour allowed) |
| Ozone resistance       | acc. to EN 50396 resp. VDE 0473-396, method B   |
| Oil resistance         | acc. to EN 50363-10-2 resp. VDE 0207-363-10-2   |
| MUD resistance         | acc. to IEC 61892-4 Annex D   |
| 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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