

|                           |                               |                                                                                     |
|---------------------------|-------------------------------|-------------------------------------------------------------------------------------|
| 1313852                   | <b>DATA SHEET</b>             |  |
| valid from:<br>03.12.2020 | <b>ÖLFLEX® CLASSIC 400 CP</b> |                                                                                     |

Application

ÖLFLEX® CLASSIC 400 CP cables are oil resistant connection and control cables with a Polyurethan outer sheath, for flexible use and fixed installation for medium mechanical abuse. 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® CLASSIC 400 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. 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. The screening braid protects against interference from electrical fields.

Application range:  
Industrial machinery, machine tools, measurement-, control-, electrical applications, food production and packaging machinery.

Design

|                          |                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------|
| Design                   | based on<br>EN 50525-2-51<br>EN 50525-2-21                                                                    |
| Conductor                | fine wire strands of bare copper, acc. to IEC 60228 resp. EN 60228, class 5                                   |
| Insulation               | LAPP special PVC compound P8/1, better than the PVC compound TI2, acc. to EN 50363-3                          |
| Core identification code | acc. to VDE 0293-1, with or without GN/YE ground conductor<br>black cores with white numbers acc. to EN 50334 |
| Inner sheath             | PVC compound TM2 acc. to EN 50363-4-1                                                                         |
| Screen                   | braid of tinned copper, coverage = 85 % (nominal value)                                                       |
| Outer sheath             | Polyurethane compound TPU acc. to EN 50363-10-2<br>colour: silver grey, similar RAL 7001                      |

Electrical properties at 20°C

|                             |                                                |
|-----------------------------|------------------------------------------------|
| Specific volume resistivity | > 20 GΩ x cm                                   |
| Transfer impedance          | max. 250 mΩ/m (at 30 MHz)                      |
| Nominal voltage             | U <sub>0</sub> / U: 300 / 500 V                |
| Test voltage                | Core/Core: 4000 V AC<br>Core/Screen: 4000 V AC |

Mechanical and thermal properties

|                           |                                                                                                                                           |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Minimum bending radius    | occasional flexing: 20 x outer diameter<br>fixed installation: 6 x outer diameter                                                         |
| Temperature range         | occasional flexing: - 5 °C up to +70 °C max. conductor temperature<br>fixed installation: - 40 °C up to +80 °C max. conductor temperature |
| UV resistance             | acc. to EN 50618<br>acc. to EN 50620<br>acc. to EN ISO 4892-2-2013, method A (change of colour allowed)                                   |
| Ozone resistance          | acc. to EN 50396, method B                                                                                                                |
| Oil resistance            | acc. to EN 50363-10-2                                                                                                                     |
| Tests                     | acc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396                                                                                      |
| General requirements      | These cables 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).                                              |

|                      |                       |             |
|----------------------|-----------------------|-------------|
| Creator: LABU / PDC  | Document: DB1313852EN | Page 1 of 1 |
| Released: ALTE / PDC | Version: 07           |             |