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|---------------------------|-------------------------------|---|
| 1125752                   | <b>DATA SHEET</b>             |  |
| valid from:<br>08.03.2023 | <b>ÖLFLEX® CLASSIC 110 SY</b> |   |

## Application

ÖLFLEX® CLASSIC 110 SY cables are VDE approved power and control cables for occasional flexible use and fixed installation for medium mechanical load conditions. They are also suitable for use in dry, damp or wet areas. Outdoor use: If using outdoors, observe the indicated temperature range and use with UV protection. They are largely resistant to acids, alkalis and certain oils at room temperature.

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.

The steel wire braid is used for the mechanical protection of the cable.

Application range:

As power and connecting cable in plant engineering and construction, industrial machinery and in heating and air-conditioning systems as well as in areas with high mechanical stress.

## Design

|                          |   |
|--------------------------|---|
| Design                   | based on<br>EN 50525-2-51   |
| Certification            | ◁ VDE-REG 7030 ▷  |
| Conductor                | fine wire strands of bare copper, acc. to IEC 60228, class 5  |
| Insulation               | PVC compound TI2 acc. to DIN EN 50363-3<br>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 |
| Stranding                | cores are stranded in layers  |
| Inner sheath             | PVC compound TM2 acc. to EN 50363-4-1<br>colour: silver grey, similar RAL 7001                                    |
| Braid                    | Galvanized steel-wires, coverage = 70 % (nominal value)   |
| Outer sheath             | PVC compound TM2 acc. to EN 50363-4-1<br>colour: transparent  |

## Electrical properties at 20 °C

|                 |  |
|-----------------|--|
| 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 cable diameter<br>fixed installation: 6 x cable diameter   |
| Temperature range      | occasional flexing: - 5 °C up to +70 °C max. conductor temp.<br>fixed installation: - 40 °C up to +80 °C max. conductor temp. |
| Flammability           | acc. to IEC 60332-1-2   |

**Tests** acc. to IEC 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).

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