

0016001	<b>DATA SHEET</b>	 <b>LAPP</b>
valid from: 21.06.2023	<b>ÖLFLEX® CLASSIC 100 SY</b>	

## Application

ÖLFLEX® CLASSIC 100 SY cables are power- and control cables for occasional flexible use and fixed installation for medium mechanical use. They are also suitable for use in dry, damp or wet areas. 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 braid of galvanized steel-wires is an additional mechanical protection.

Application range: ÖLFLEX® CLASSIC 100 SY cables are used as supply and connecting cable in plant engineering, in industrial machinery and in heating and air conditioning systems.

## Design

Design	based on EN 50525-2-11 EN 50525-2-51
Conductor	fine wire strands of bare copper, acc. to IEC 60228
Insulation	PVC based compound TI2 acc. to EN 50363-3 with increased requirements acc. to Lapp specification
Core identification code	acc. to VDE 0293-1, with or without GN/YE protective conductor with up to 5 cores: acc. to VDE 0293-308 / HD 308 S2 more than 6 cores: acc. to LAPP-ÖLFLEX® color code
Stranding	Cores are stranded in layers
Inner sheath	PVC based compound TM2 acc. to EN 50363-4-1 colour: silver grey, similar RAL 7001
Braid	galvanized steel-wires, coverage = 70 % (nominal value)
Outer sheath	PVC based compound TM2 in acc. to EN 50363-4-1 colour: transparent

## Electrical properties at 20 °C

Nominal voltage	up to 1.5 mm <sup>2</sup> : U <sub>0</sub> / U 300 / 500 V from 2.5 mm <sup>2</sup> : U <sub>0</sub> / U 450 / 750 V from 2.5 mm <sup>2</sup> , fixed and protected installation: U <sub>0</sub> / U 600 / 1000 V
Test voltage	core / core: 4000 V AC core / screen: 4000 V AC

## Mechanical and thermal properties

Minimum bending radius	occasional flexing: 20 x outer diameter fixed installation: 6 x outer diameter
Temperature range	occasional flexing: - 5 °C up to +70 °C max. conductor temp. fixed installation: - 40 °C up to +80 °C max. conductor temp.
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2

### Tests

acc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396

**General requirements** These cables are 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).

AbN  
automation

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