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|--|--|-------------------|---|
|  | 1135752                                  | <b>DATA SHEET</b> |  |
|  | <b>ÖLFLEX CLASSIC<sup>®</sup> 110 CY</b> |                   |   |

## Application

ÖLFLEX<sup>®</sup> CLASSIC 110 CY 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.  
 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 screening braid protects against interference from electrical fields.

### Application range:

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

## 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 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                                    |
| Screen                   | braid of tinned copper, coverage = 85% (nominal value)  |
| Outer sheath             | PVC compound TM2 acc. to EN 50363-4-1<br>colour: transparent  |

## Electrical properties at 20 °C

|                    |  |
|--------------------|--|
| Transfer impedance | max. 250 mΩ/m (at 30 MHz)                          |
| Nominal voltage    | U <sub>0</sub> /U: 300/500V                        |
| 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           | flame retardant 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).