

**ÖLFLEX® CLASSIC 110**
**DB 1119752**  
 valid from: 07.09.2010

**Application**

ÖLFLEX® CLASSIC 110 cables are VDE approved power and control cables for flexible use and fixed installation for normal mechanical stresses. They are among others designed for use in dry, damp and wet rooms. Outdoor use: They may only be installed with UV protection and considering the temperature range. At room temperature they are widely resistant to acids, alkali-resistant and resistant to certain oils. They are suitable for free non-continuously recurring movement without tensile load or compulsory guidance.

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 HD 21.13 S1 resp. VDE 0281-13   |
| Approval            | VDE Reg.-No. 7030<br>limited to following dimension range:<br>0.5 mm <sup>2</sup> - 2.5 mm <sup>2</sup> 2 - 65 cores<br>4 mm <sup>2</sup> - 16 mm <sup>2</sup> 2 - 7 cores<br>25 mm <sup>2</sup> - 120 mm <sup>2</sup> 2 - 5 cores |
| Conductor           | fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5  |
| Core insulation     | LAPP special PVC compound P8/1, better than the PVC compound TI2<br>acc. to VDE 0281-1   |
| Core identification | acc. to VDE 0293-1, with or without GN/YE ground conductor<br>black cores with white numbers acc. to DIN EN 50334 resp. VDE 0293-334   |
| Outer sheath        | PVC compound TM2 acc. to VDE 0281-1 with increased requirements<br>acc. to LAPP specification<br>colour: Silver Grey   |

**Electrical properties**

|                 |             |
|-----------------|-------------|
| Nominal voltage | 300 / 500 V |
| Test voltage    | 4000 V AC   |

**Mechanical and thermal properties**

|                     |   |  |
|---------------------|---|--|
| Min. bending radius | occasional flexing:   | 15 x cable diameter                      |
|                     | fixed installation:   | 4 x cable 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 in acc. with IEC 60332-1-2 resp. VDE 0482-332-1-2 |  |
| Tests               | acc. to IEC 60811 resp. VDE 0473 and VDE 0472                     |  |
| EC directive        | This cable is conform to ECD 2006/95/EC (Low Voltage Directive).  |  |