

**ÖLFLEX® CHAIN 808 P****DB 1027700****valid from: 26.01.2012****Application**

ÖLFLEX® CHAIN 808 P cables are high-flexible oil-resistant power and control cables with an outer sheath of Polyurethane for flexible use and fixed installation under light or medium mechanical load conditions. They are among others designed for use in dry, damp or wet rooms. Considering the indicated temperature range an outdoor use is possible.

ÖLFLEX® CHAIN 808 P cables are increased oil resistant and at room temperature widely resistant to acids and caustic solutions. The outer sheath is resistant to high mechanical load, particularly to abrasion and scouring, cut resistant, microbe-proof and hydrolysis resistant. They are especially suitable for basic requirements (Basic Line) in power chains and in permanently moved machine parts. Usage of these cables in moving cable carriers or on motor drum guidance or under a tensile strain of more than 15 N/mm<sup>2</sup> conductor cross-section is not allowed.

**Application range:**

Power chains or moving machine parts, especially in wet areas of machine tools and transfer lines, measuring, control and regulation circuits, assembly lines, production lines.

**Design**

|                     |                                                                                                                                                  |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Design              | based on HD 22.10 S2 resp. VDE 0282-10 and HD 21.13 S1 +A1 resp. VDE 0281-13                                                                     |
| 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 acc. to HD 21.1 S4 resp. VDE 0281-1                                             |
| Core identification | acc. to VDE 0293-1, with or without GN/YE protective conductor<br>black cores with white numbers<br>acc. to DIN EN 50334 resp. VDE 0293 part 334 |
| Outer sheath        | Polyurethane compound TMPU acc. to EN 50363-10-2 resp. VDE 0207-363-10-2<br>Colour: Grey, similar RAL 7001                                       |

**Electrical properties**

|                 |                              |
|-----------------|------------------------------|
| Nominal voltage | U <sub>0</sub> /U: 300/500 V |
| Test voltage    | Core/ Core: 4000 V AC        |

**Mechanical and thermal properties**

|                     |                                                                                                                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Min. bending radius | flexing up to 3m travel distance (horizontal, self supporting): 10 x cable diameter<br>flexing up to 10m travel distance (horizontal, sliding): 12 x cable diameter<br>fixed installation: 4 x cable diameter |
| Temperature range   | flexing: -5 °C up to +70 °C max. conductor temp.<br>fixed installation: -40 °C up to +80 °C max. conductor temp.                                                                                              |
| Travel distance     | for travel distances up to 10m (horizontal): 1...2 Mio bending change cycles<br>Please comply with the assembly guidelines Appendix T3                                                                        |
| Oil resistance      | acc. to EN 50363-10-2 resp. VDE 0207-363-10-2                                                                                                                                                                 |
| Tests               | acc. to IEC 60811 resp. VDE 0473 part 811, EN 50395, EN 50396                                                                                                                                                 |
| EC Directives       | This cable is conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and 2002/95/EC (RoHS, Restriction of the use of certain hazardous substances).                                                  |