

## ÖLFLEX® EB

DB 0012420

valid from: 2014-03-10

**Application**

ÖLFLEX® EB are PVC control cables with blue outer sheath for occasional flexible use and fixed installation in intrinsically safe circuits. 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 certain oils and resistant to acids. They are suitable for non-continuously recurring movement without tensile load. Continuous operation movement, compulsory guidance respectively usage on cable drums or pulleys or under a tensile strain of more than 15 N/mm<sup>2</sup> conductor cross section are not allowed.

Application range:

Installation of intrinsically safe circuits, where a special cable marking for hazard area type “i” – intrinsic safety is specified; The cables meet the requirements of DIN EN 60079-14/ VDE 0165-1 potentially explosive atmosphere.

**Design**

|                     |                                                                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design              | based on<br>DIN EN 50525-2-51 resp. VDE 0285-525-2-51                                                                                                         |
| Conductor           | fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5                                                                                   |
| Core insulation     | LAPP special PVC compound P8/1<br>PVC compound TI2 acc. to DIN EN 50363-3 resp. VDE 0207-363-3 with increased Requirements acc. to Lapp specification         |
| 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 DIN EN 50363-4-1 resp. VDE 0207-363-4-1<br>with increased requirements acc. to Lapp specification<br>colour: blue, similar RAL 5015. |

**Electrical properties**

|                                   |                                                          |
|-----------------------------------|----------------------------------------------------------|
| Nominal voltage U <sub>0</sub> /U | 300 / 500 V                                              |
| Operating Voltage                 | < 50 V AC resp. < 75 V DC in intrinsically safe circuits |
| Test voltage                      | 3000 V AC                                                |

**Mechanical and thermal properties**

|                     |                                                                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Min. bending radius | occasional flexing: 15 x outer diameter<br>fixed installation: 4 x outer 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 in acc. with IEC 60332-1-2 resp. VDE 0482-332-1-2                                                                                            |
| Tests               | acc. to IEC 60811 resp. VDE 0473-811, VDE 0472, EN 50395, EN 50396                                                                                           |
| EC-Directives       | This cable is conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances). |