

**ÖLFLEX® EB CY****DB 0012640**  
valid from: 18.10.2010**Application**

ÖLFLEX® EB CY 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 is not allowed. At room temperature they are widely resistant to certain oils and resistant to acids. 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: In explosive atmosphere with hazard area type “ i “ – intrinsically safety; the cables meet the requirements of VDE 0165-1 (DIN EN 60079-14). The screen is a protection against electrical interference.

**Design**

|                     |  |
|---------------------|--|
| Design              | based on HD 21.13 S1 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, without GN/YE ground conductor<br>black cores with white numbers<br>acc. to DIN EN 50334 resp. VDE 0293 part 334 |
| Wrapping            | plastic foil   |
| Screen              | braid of tinned copper, coverage = 85% (nominal value)   |
| Outer sheath        | PVC compound TM2 acc. to HD 21.1 S4 resp. VDE 0281-1<br>Colour: Blue, similar RAL 5015   |

**Electrical properties**

|                 |                                  |
|-----------------|----------------------------------|
| Nominal voltage | < 50 V AC<br>< 75 V DC           |
| Test voltage    | C/C: 3000 V AC<br>C/S: 2000 V AC |

**Mechanical and thermal properties**

|                     |   |
|---------------------|---|
| Min. 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 in acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2   |
| Tests               | acc. to IEC 60811 resp. VDE 0473 part 811 and VDE 0472  |

Because this product is designed for intended use in the voltage range of < 50 V AC resp. < 75 V DC, it is not subject to the Low Voltage Directive 2006/95/EC. Thus a CE marking is not applicable.