ÖLFLEX® EB

DB 0012420
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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 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 / mm² 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).

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, with or without GN/YE ground conductor black cores with white numbers acc. to DIN EN 50334 resp. VDE 0293 part 334
Outer sheath	PVC compound TM2 acc. to HD 21.1 S4 resp. VDE 0281-1 Colour: Blue, similar RAL 5015

Electrical properties

Nominal voltage	< 50 V AC < 75 V DC
Test voltage	3000 V AC

Mechanical and thermal properties

Min. bending radius	occasional flexing: fixed installation:	15 x cable diameter 4 x cable diameter
Temperature range	occasional flexing: fixed installation:	-5 °C up to +70 °C max. conductor temp. -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.