

0012640	DATA SHEET	
ÖLFLEX	® EB CY	

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 also suitable for use in dry, damp or wet areas. They are suitable for outdoor use if the indicated temperature range is observed. They are suitable for occasional, non-automated movements. The maximum tensile load is 15 N/mm² of conductor cross-section during installation and operation. Compulsory guidance is not permitted. The screening braid protects against interference from electrical fields.

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), section 16.2.2 potentially explosive atmosphere.

Design

Design	based on 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 isolation	LAPP special PVC compound P8/1 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 black cores with white numbers acc. to DIN EN 50334 resp. VDE 0293-334
Wrapping	plastic foil
Screen	braid of tinned copper, coverage = 85% (nominal value)
Outer sheath	PVC compound TM2 acc. to DIN EN 50363-4-1 resp. VDE 0207-363-4-1 with increased requirements acc. to Lapp specification colour: blue, similar RAL 5015

Electrical properties at 20°C

Nominal voltage	U ₀ / U: 300 / 500 V
Operating voltage	< 50 V AC resp. < 75 V DC in intrinsically safe circuits
Test voltage	core / core: 3000 V AC core / screen: 2000 V AC

Mechanical and thermal properties

Min. bending radius	occasional flexing: 20 x outer diameter fixed installation: 6 x outer 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. to IEC 60332-1-2 resp. VDE 0482-332-1-2
UV-resistance	acc. to EN 50618 resp. VDE 0283-618 acc. to EN 50620 resp. VDE 0285-620 acc. to EN ISO 4892-2-2013, method A (change of colour allowed)
Tests	acc. to IEC 60811 resp. VDE 0473-811, VDE 0472, EN 50395, EN 50396
EU Directives	These cables are conform to the EU Directive 2014/35/EU (Low Voltage Directive)

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