

## ÖLFLEX® EB CY

Control cable for intrinsically safe circuits according to IEC 60079-14 / EN 60079-14 / VDE 0165-1

ÖLFLEX® EB CY - PVC control cable, flexible, screened and numbered, with blue outer sheath for intrinsically-safe circuits,  $U_0/U$ : 300/500V

### Info

CPR: Article number choice under [www.lappkabel.com/cpr](http://www.lappkabel.com/cpr)

For use within intrinsically safe circuits - type of protection 'i'

UV and weather-resistant according to ISO 4892-2



Interference signals



Good chemical resistance

### Benefits

Space-saving installation due to small cable diameters

Copper wire braid screening of the ÖLFLEX® EB CY protects signal transmission within intrinsically safe circuits against electromagnetic interference

Suitable for outdoor applications

### Application range

For intrinsically safe circuits (type of protection i - intrinsic safety) according to IEC 60079-14:2013 / EN 60079-14:2014 / VDE 0165-1:2014, section 16.2.2

In EMC-sensitive environments  
(electromagnetic compatibility)

### Product features

Flame-retardant according IEC 60332-1-2

High degree of screening

low transfer impedance

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Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02\_03.16

## ÖLFLEX® EB CY

(max. 250 Ω/km at 30 MHz)

UV and weather-resistant according to ISO 4892-2

### Norm references / Approvals

Based on EN 50525-2-51

### Product Make-up

Fine-wire strand made of bare copper wires

PVC insulation LAPP P8/1

Cores twisted in layers

Plastic foil wrapping

Tinned-copper braiding

Outer sheath: PVC, sky blue similar to RAL 5015

### Technical Data

|                           |   |
|---------------------------|---|
| Classification ETIM 5:    | ETIM 5.0 Class-ID: EC000104<br>ETIM 5.0 Class-Description: Control cable          |
| Classification ETIM 6:    | ETIM 6.0 Class-ID: EC000104<br>ETIM 6.0 Class-Description: Control cable          |
| Core identification code: | Black with white numbers acc. to VDE 0293-1                                       |
| Mutual capacitance:       | Core/core approx. 160 nF/km<br>Core/screen approx. 250 nF/km                      |
| Inductivity:              | approx. 0.52 mH/km  |
| Conductor stranding:      | Fine wire according to VDE 0295,<br>class 5/IEC 60228 class 5                     |
| Minimum bending radius:   | Occasional flexing: 20 x outer diameter<br>Fixed installation: 6 x outer diameter |
| Nominal voltage:          | U0/U: 300/500 V   |
| Test voltage:             | Core/core: 3000 V<br>Core/screen: 2000 V  |
| Temperature range:        | Occasional flexing: -5 °C to +70 °C<br>Fixed installation: -40 °C to +80 °C       |

### Note

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

Prices are net prices without VAT and surcharges. Sale to business customers only.

**ÖLFLEX® EB CY**

| Article number                               | Number of cores and mm <sup>2</sup> per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|--|---|---------------------|----------------------|----------------|
| ÖLFLEX® EB CY screened; without inner sheath |   |                     |                      |                |
| 0012640                                      | 2 X 0.75  | 6.2                 | 43                   | 56             |
| 0012641                                      | 3 X 0.75  | 6.5                 | 52                   | 70             |
| 0012642                                      | 4 X 0.75  | 7                   | 61                   | 95             |
| 0012643                                      | 5 X 0.75  | 7.7                 | 72                   | 108            |
| 0012644                                      | 7 X 0.75  | 8.3                 | 89                   | 168            |
| 0012645                                      | 12 X 0.75   | 10.9                | 138                  | 216            |
| 0012646                                      | 18 X 0.75   | 12.7                | 211                  | 315            |
| 0012647                                      | 25 X 0.75   | 14.8                | 280                  | 435            |
| 0012650                                      | 2 X 1.0   | 6.5                 | 51                   | 84             |
| 0012651                                      | 3 X 1.0   | 6.8                 | 62                   | 110            |
| 0012652                                      | 5 X 1.0   | 8.1                 | 88                   | 156            |
| 0012653                                      | 7 X 1.0   | 8.8                 | 112                  | 192            |
| 0012654                                      | 12 X 1.0  | 11.5                | 185                  | 285            |
| 0012655                                      | 18 X 1.0  | 13.9                | 268                  | 395            |
| 0012656                                      | 25 X 1.0  | 15.9                | 354                  | 656            |
| 0012660                                      | 2 X 1.5   | 7.1                 | 65                   | 87             |
| 0012661                                      | 3 X 1.5   | 7.5                 | 82                   | 112            |
| 0012662                                      | 5 X 1.5   | 8.9                 | 119                  | 148            |
| 0012663                                      | 7 X 1.5   | 9.9                 | 154                  | 193            |
| 0012664                                      | 12 X 1.5  | 13                  | 268                  | 365            |
| 0012666                                      | 25 X 1.5  | 17.9                | 530                  | 734            |

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