



ÖLFLEX® EB

According to DIN EN 60079-14; VDE 0165 part 1



Info

- For use within intrinsically safe circuits

Benefits

- Space-saving installation due to small cable diameters

Application range

- Installation of intrinsically safe circuits, where a special cable marking for hazard area type "i"- intrinsic safety is specified

Product features

- Flame-retardant according IEC 60332-1-2

Norm references / Approvals

- Based on EN 50525-2-51
- Electrical characteristics and markings on the wires and cables are according to DIN EN 60079-14 Section 12.2.2 (VDE 0165 Part 1)

Product make-up

- Fine-wire strand made of bare copper wires
- PVC insulation LAPP P8/1
- PVC outer sheath, sky blue RAL 5015

Technical data



Classification

ETIM 5.0 Class-ID: EC000104
ETIM 5.0 Class-Description: Control cable



Core identification code

Black with white numbers acc. to VDE 0293-1



Mutual capacitance

Core/core approx. 110 nF/km



Specific insulation resistance

> 20 GΩm x cm



Inductivity

approx. 0.65 mH/km



Conductor stranding

Fine wire according to VDE 0295, class 5/IEC 60228 class 5



Minimum bending radius

Occasional flexing: 15 x outer diameter
Fixed installation: 4 x outer diameter



Nominal voltage

U₀/U: 300/500 V



Test voltage

Core/core: 3000 V



Temperature range

Occasional flexing: -5°C to +70°C
Fixed installation: -40°C to +80°C

| Article number | Number of cores and mm ² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|--|---|---------------------|----------------------|----------------|
| ÖLFLEX® EB without protective conductor GN/YE | | | | |
| 0012420 | 2 X 0.75 | 5.4 | 14.7 | 50 |
| 0012421 | 3 X 0.75 | 5.7 | 22.1 | 60 |
| 0012430 | 4 X 0.75 | 6.2 | 29.4 | 81 |
| 0012422 | 5 X 0.75 | 6.7 | 36.8 | 88 |
| 0012423 | 7 X 0.75 | 7.3 | 51.5 | 115 |
| 0012425 | 12 X 0.75 | 9.9 | 88.2 | 185 |
| 0012427 | 18 X 0.75 | 11.7 | 132.3 | 282 |
| 0012429 | 25 X 0.75 | 13.8 | 183.8 | 393 |
| 0012440 | 2 X 1.0 | 5.7 | 19.7 | 57 |
| 0012441 | 3 X 1.0 | 6.0 | 29.6 | 73 |
| 0012443 | 5 X 1.0 | 7.1 | 49.4 | 105 |
| 0012444 | 7 X 1.0 | 8.0 | 69.1 | 138 |
| 0012446 | 12 X 1.0 | 10.5 | 118.4 | 231 |
| 0012448 | 18 X 1.0 | 12.7 | 177.7 | 331 |
| 0012401 | 2 X 1.5 | 6.3 | 29.0 | 80 |
| 0012402 | 3 X 1.5 | 6.7 | 43.0 | 105 |
| 0012403 | 4 X 1.5 | 7.2 | 58.0 | 125 |
| 0012404 | 5 X 1.5 | 8.1 | 72.0 | 139 |
| ÖLFLEX® EB with protective conductor GN/YE | | | | |
| 0012501 | 3 G 1.5 | 6.7 | 43.0 | 105 |
| 0012502 | 4 G 1.5 | 7.2 | 58.0 | 125 |
| 0012503 | 5 G 1.5 | 8.1 | 72.0 | 139 |
| 0012504 | 7 G 1.5 | 8.9 | 101.0 | 180 |
| 0012505 | 12 G 1.5 | 12.0 | 173.0 | 339 |
| 0012506 | 18 G 1.5 | 14.4 | 259.0 | 513 |
| 0012507 | 25 G 1.5 | 16.9 | 360.0 | 698 |

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

Copper price basis: EUR 150/100kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: 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 are not to scale and do not represent detailed images of the respective products.

Similar products

- UNITRONIC® EB CY (TP) refer to page 252

Accessories

- FLEXIMARK® Stainless steel kit refer to page 872
- SKINTOP® K-M ATEX plus blue refer to page 665