



Info

- For use within intrinsically safe circuits
- EMC-compliant

ÖLFLEX® EB CY

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



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

Application range

- Installation of intrinsically safe circuits, where a special cable marking for hazard area type "I"-intrinsic safety is specified
- In EMC-sensitive environments (electromagnetic compatibility)

Product features

- Flame-retardant according IEC 60332-1-2
- High degree of screening low transfer impedance (max. 250 Ω/km at 30 MHz)

Norm references / Approvals

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

Product make-up

- Fine-wire strand made of bare copper wires
- PVC insulation LAPP P8/1
- Plastic foil wrapping
- Tinned-copper braiding
- 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. 135 nF/km
Core/screen approx. 185 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: 20 x outer diameter
Fixed installation: 6 x outer diameter
- Nominal voltage**
U₀/U: 300/500 V
- Test voltage**
Core/core: 3000 V
Core/screen: 2000 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 CY screened; without inner sheath				
0012640	2 X 0.75	6.2	43.0	56
0012641	3 X 0.75	6.5	52.0	70
0012642	4 X 0.75	7.0	61.0	95
0012643	5 X 0.75	7.7	72.0	108
0012644	7 X 0.75	8.3	89.0	168
0012645	12 X 0.75	10.9	138.0	216
0012646	18 X 0.75	12.7	211.0	315
0012647	25 X 0.75	14.8	280.0	435
0012650	2 X 1.0	6.5	51.0	84
0012651	3 X 1.0	6.8	62.0	110
0012652	5 X 1.0	8.1	88.0	156
0012653	7 X 1.0	8.8	112.0	192
0012654	12 X 1.0	11.5	185.0	285
0012655	18 X 1.0	13.9	268.0	395
0012656	25 X 1.0	15.9	354.0	656
0012660	2 X 1.5	7.1	65.0	87
0012661	3 X 1.5	7.5	82.0	112
0012662	5 X 1.5	8.9	119.0	148
0012663	7 X 1.5	9.9	154.0	193
0012664	12 X 1.5	13.0	268.0	365
0012666	25 X 1.5	17.9	530.0	734

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
 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

- 3M Scotch™ 1183 screening tape refer to page 946
- SKINTOP® K-M ATEX plus blue refer to page 665