



ÖLFLEX® CLASSIC 100 CY
Colour-coded and screened PVC control cable



Info

- EMC-compliant

Benefits

- Space-saving installation due to small cable diameters
- High electrical performance due to 4 kV test voltage

Application range

- Plant engineering
- Industrial machinery
- Heating and air-conditioning systems
- Conveyor and transport systems
- Servo drives
- In EMC-sensitive environments (electromagnetic compatibility)

Product features

- Flame-retardant according IEC 60332-1-2
- Good chemical resistance, see catalogue appendix T1
- High degree of screening low transfer impedance (max. 250 Ω/km at 30 MHz)

Norm references / Approvals

- Based on IEC 60227-5 and EN 50525-2-51

Product make-up

- Fine-wire strand made of bare copper wires
- PVC insulation LAPP P8/1
- PVC inner sheath, grey
- Tinned-copper braiding
- PVC outer sheath, transparent

Technical data

Classification
ETIM 5.0 Class-ID: EC001578
ETIM 5.0 Class-Description: Flexible cable

Core identification code
Up to 5 cores: colour-coded according to VDE 0293-308, refer to Appendix T9
From 6 cores: ÖLFLEX® colour code, refer to Appendix T7

Specific insulation resistance
> 20 GOhm x cm

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
Up to 1.0 mm²: U₀/U: 300/500 V
From 1.5 mm²: U₀/U: 450/750 V
Fixed, protected installation:
U₀/U: 600/1000 V

Test voltage
4000 V

Protective conductor
G = with GN-YE protective conductor
X = without protective conductor

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® CLASSIC 100 CY; U₀/U: 300/500 V | | | | |
| 0035001 | 2 X 0.5 | 7.0 | 41.0 | 75 |
| 0035002 | 3 G 0.5 | 7.3 | 46.0 | 83 |
| 00350033 | 4 G 0.5 | 7.9 | 55.0 | 99 |
| 00352013 | 5 G 0.5 | 8.4 | 66.0 | 112 |
| 0035202 | 7 G 0.5 | 8.9 | 80.0 | 132 |
| 0035004 | 2 X 0.75 | 7.4 | 46.0 | 86 |
| 0035005 | 3 G 0.75 | 7.9 | 57.0 | 100 |
| 00350063 | 4 G 0.75 | 8.4 | 64.0 | 115 |
| 00350163 | 5 G 0.75 | 8.9 | 77.0 | 130 |
| 0035203 | 7 G 0.75 | 9.7 | 102.0 | 161 |
| 0035220 | 2 X 1.0 | 7.9 | 56.0 | 98 |
| 0035221 | 3 G 1.0 | 8.2 | 65.0 | 111 |
| 00352223 | 4 G 1.0 | 8.7 | 78.0 | 130 |
| 00352233 | 5 G 1.0 | 9.5 | 89.0 | 153 |
| 0035204 | 7 G 1.0 | 10.2 | 113.0 | 185 |
| ÖLFLEX® CLASSIC 100 CY; U₀/U: 450/750 V | | | | |
| 0035000 | 2 X 1.5 | 9.9 | 65.0 | 132 |
| 0035458 | 3 G 1.5 | 10.3 | 79.0 | 170 |
| 00354593 | 4 G 1.5 | 11.3 | 97.0 | 204 |
| 00354603 | 5 G 1.5 | 12.6 | 116.0 | 246 |
| 0035461 | 7 G 1.5 | 13.9 | 149.0 | 320 |
| 0035011 | 3 G 2.5 | 11.8 | 146.0 | 211 |
| 00350173 | 4 G 2.5 | 13.5 | 167.0 | 310 |
| 00350123 | 5 G 2.5 | 14.6 | 200.0 | 326 |

| Article number | Number of cores and mm ² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|----------------|---|---------------------|----------------------|----------------|
| 0035289 | 7 G 2.5 | 15.9 | 288.0 | 444 |
| 00350183 | 4 G 4 | 15.1 | 237.0 | 403 |
| 00350133 | 5 G 4 | 16.5 | 328.0 | 478 |
| 00350193 | 4 G 6 | 16.6 | 318.0 | 521 |
| 00350143 | 5 G 6 | 18.2 | 441.0 | 624 |
| 0034953 | 3 G 10 | 18.9 | 414.0 | 690 |
| 00350213 | 4 G 10 | 21.1 | 558.0 | 843 |
| 00352903 | 5 G 10 | 23.1 | 714.0 | 1004 |
| 0034954 | 3 G 16 | 21.7 | 607.0 | 910 |
| 00350223 | 4 G 16 | 23.9 | 804.0 | 1164 |
| 00350153 | 5 G 16 | 26.8 | 1,050.0 | 1812 |
| 0034955 | 3 G 25 | 26.6 | 936.0 | 1330 |
| 00350233 | 4 G 25 | 29.4 | 1,289.0 | 1903 |
| 00350243 | 5 G 25 | 32.6 | 1,446.0 | 2374 |
| 0034956 | 3 G 35 | 29.4 | 1,258.0 | 1370 |
| 00350253 | 4 G 35 | 32.4 | 1,693.0 | 2489 |
| 00350263 | 5 G 35 | 36.0 | 1,975.0 | 2771 |
| 0034952 | 3 G 50 | 35.1 | 1,748.0 | 2590 |
| 00350273 | 4 G 50 | 38.8 | 2,342.0 | 3362 |
| 00350283 | 4 G 70 | 43.7 | 3,035.0 | 3719 |
| 00350293 | 4 G 95 | 50.4 | 4,055.0 | 5849 |
| 00354303 | 4 G 120 | 56.8 | 5,225.0 | 7509 |
| 00354313 | 4 G 150 | 62.2 | 6,300.0 | 7800 |
| 00354323 | 4 G 185 | 67.8 | 7,753.0 | 9866 |

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).
Single lengths for sizes: ≥ 4G50 max. 500 m; ≥ 4G95 max. 400 m; ≥ 4G120 max. 300 m; ≥ 4G150 max. 250 m
Photographs are not to scale and do not represent detailed images of the respective products.

Similar products

- ÖLFLEX® SERVO 9YSLCY-JB refer to page 96
- ÖLFLEX® SERVO 2YSLCY-JB refer to page 94

Accessories

- 3M Scotch™ 1183 screening tape refer to page 946
- SKINTOP® MS-M BRUSH refer to page 675