

## ÖLFLEX® CLASSIC 100 450/750 V

Colour-coded PVC power and control cable

ÖLFLEX® CLASSIC 100 - flexible PVC cable, colour coded, power and control cable for various applications, 450/750V, also for YSLY or YY

### Info

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

For nominal voltage U0/U: 300/500V and conductor cross-sections below 2,5mm<sup>2</sup> see ÖLFLEX® CLASSIC 100 300/500V



Good chemical resistance



Torsion-resistant

### Benefits

High electrical performance due to 4 kV test voltage

High flexibility due to short-twisted conductor layers

### Application range

Plant engineering

Industrial machinery

Heating and air-conditioning systems

Power stations

Dry or damp rooms that are subject to medium mechanical loads

For fixed installation as well as occasional flexing at free, non-continuously recurring movement without tensile load

Suitable for torsional applications which are typical for the loop in wind turbine generators (WTG)

### Product features

Flame-retardant according IEC 60332-1-2

Good chemical resistance, see catalogue appendix T1

Last Update (25.04.2024)

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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® CLASSIC 100 450/750 V

### Norm references / Approvals

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

Based on EN 50525-2-11 and EN 50525-2-31

### Product Make-up

Fine-wire strand made of bare copper wires

PVC insulation LAPP P8/1

Cores twisted in layers

PVC outer sheath, grey (similar RAL 7001)

### Technical Data

|                           |                                                                                                                                        |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Classification ETIM 5:    | ETIM 5.0 Class-ID: EC001578<br>ETIM 5.0 Class-Description: Flexible cable                                                              |
| Classification ETIM 6:    | ETIM 6.0 Class-ID: EC001578<br>ETIM 6.0 Class-Description: Flexible cable                                                              |
| Core identification code: | Up to 5 cores: colour-coded according to VDE 0293-308, refer to Appendix T9<br>From 6 cores: ÖLFLEX® colour code, refer to Appendix T7 |
| Conductor stranding:      | Fine wire according to VDE 0295,<br>class 5/IEC 60228 class 5                                                                          |
| Torsion movement in WTG:  | TW-0 & TW-1, refer to Appendix T0                                                                                                      |
| Minimum bending radius:   | Occasional flexing: 15 x outer diameter<br>Fixed installation: 4 x outer diameter                                                      |
| Nominal voltage:          | U0/U: 450/750 VAC<br>In protected and fixed installations:<br>U0/U: 600/1000 V                                                         |
| Test voltage:             | 4000 V                                                                                                                                 |
| Protective conductor:     | G = with GN-YE protective conductor<br>X = without protective conductor                                                                |
| 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.

Copper price basis: EUR 150/100 kg. 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](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).

Single lengths for sizes: ≥ 5G50 max. 500 m; ≥ 5G95 max. 400; ≥ 3G120 max. 500 m; ≥ 4G120 max. 300; ≥ 4G185 max. 250 m

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® CLASSIC 100 450/750 V

| Article number                | Number of cores and mm <sup>2</sup> per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|-------------------------------|---------------------------------------------------|---------------------|----------------------|----------------|
| ÖLFLEX® CLASSIC 100 450/750 V |                                                   |                     |                      |                |
| 0010086                       | 2 X 2.5                                           | 8.9                 | 48                   | 128            |
| 0010087                       | 3 G 2.5                                           | 9.6                 | 72                   | 162            |
| 00100933                      | 3 X 2.5                                           | 9.6                 | 72                   | 162            |
| 00100883                      | 4 G 2.5                                           | 10.7                | 96                   | 203            |
| 00100893                      | 5 G 2.5                                           | 11.8                | 120                  | 242            |
| 0010091                       | 7 G 2.5                                           | 13.1                | 168                  | 321            |
| 0010092                       | 8 G 2.5                                           | 15.8                | 192                  | 385            |
| 0010100                       | 2 X 4.0                                           | 10.4                | 76.8                 | 187            |
| 0010210                       | 3 G 4.0                                           | 11.2                | 115.2                | 244            |
| 00101013                      | 4 G 4.0                                           | 12.5                | 154                  | 297            |
| 00101023                      | 5 G 4.0                                           | 13.7                | 192                  | 355            |
| 0010103                       | 7 G 4.0                                           | 15.2                | 269                  | 471            |
| 0010105                       | 3 G 6.0                                           | 12.6                | 173                  | 318            |
| 00101063                      | 4 G 6.0                                           | 13.8                | 230                  | 394            |
| 00101073                      | 5 G 6.0                                           | 15.6                | 288                  | 489            |
| 0010108                       | 7 G 6.0                                           | 17.3                | 403                  | 651            |
| 0010301                       | 3 G 10.0                                          | 15.9                | 288                  | 516            |
| 00101093                      | 4 G 10.0                                          | 17.6                | 384                  | 650            |
| 00101103                      | 5 G 10.0                                          | 19.7                | 480                  | 792            |
| 0010111                       | 7 G 10.0                                          | 21.7                | 672                  | 1058           |
| 0010302                       | 3 G 16.0                                          | 18.3                | 461                  | 728            |
| 00101123                      | 4 G 16.0                                          | 20.4                | 614                  | 1087           |
| 00101133                      | 5 G 16.0                                          | 22.8                | 768                  | 1118           |
| 0010303                       | 3 G 25.0                                          | 23                  | 720                  | 1388           |
| 00101153                      | 4 G 25.0                                          | 25.4                | 960                  | 1582           |
| 00101163                      | 5 G 25.0                                          | 28.5                | 1200                 | 1771           |
| 0010304                       | 3 G 35.0                                          | 25.6                | 1008                 | 1766           |
| 00101173                      | 4 G 35.0                                          | 28.5                | 1344                 | 2106           |
| 00101183                      | 5 G 35.0                                          | 31.9                | 1680                 | 2635           |
| 0010305                       | 3 G 50.0                                          | 31                  | 1440                 | 2556           |
| 00101193                      | 4 G 50.0                                          | 34.5                | 1920                 | 2943           |
| 00103133                      | 5 G 50.0                                          | 38.6                | 2400                 | 3936           |
| 0010306                       | 3 G 70.0                                          | 35.3                | 2016                 | 3182           |
|                               |                                                   |                     |                      |                |

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| Article number | Number of cores and mm <sup>2</sup> per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|----------------|---------------------------------------------------|---------------------|----------------------|----------------|
| 00101203       | 4 G 70.0                                          | 39.4                | 2688                 | 4092           |
| 00103143       | 5 G 70.0                                          | 44.1                | 3360                 | 4800           |
| 0010307        | 3 G 95.0                                          | 41.3                | 2736                 | 4675           |
| 00101213       | 4 G 95.0                                          | 45.8                | 3648                 | 5290           |
| 00103153       | 5 G 95.0                                          | 51.6                | 4560                 | 5600           |
| 0010308        | 3 G 120.0                                         | 47.6                | 3456                 | 5626           |
| 00103093       | 4 G 120.0                                         | 53.1                | 4608                 | 6994           |
| 00103113       | 4 G 150.0                                         | 57.4                | 5760                 | 7500           |
| 00103123       | 4 G 185.0                                         | 62.8                | 7104                 | 8300           |