

## ÖLFLEX® CLASSIC 415 CP

Screened, abrasion- and oil-resistente PUR control cable with reduced outer diameter

ÖLFLEX® 415 CP - PUR control cable, screened, for space-saving, oil- and abrasion resistant application in industrial machinery automation and appliances

### Info

Thin and light, without inner sheath  
EMC compliant copper screening



Mechanical resistance



Oil-resistant



Interference signals



UV-resistant

### Benefits

Space and weight-saving installations due to small cable diameters

Increased durability under harsh conditions thanks to robust PUR outer sheath

Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media

Copper braiding screens the cable against  
electromagnetic interference

### Application range

Industrial machinery and machine tools

Measurement, control and electrical applications

Very suitable for oily wet areas within machinery and production lines that are subject to normal mechanical stress

Under consideration of the temperature range also suitable for outdoor use

Last Update (28.04.2024)

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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.

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### Product features

High oil-resistance  
Abrasion and notch-resistant  
EMC-compliant  
Low-adhesive surface  
Resistant to hydrolysis and microbes

### Norm references / Approvals

Core based on VDE 0812/0285  
Outer sheath based on VDE 0250/0285

### Product Make-up

Fine-wire, bare copper conductor  
Core insulation: special PVC  
Cores twisted in layers  
Plastic foil wrapping  
Tinned-copper braiding  
Special polyurethane outer sheath (PUR)  
Sheath colour: Grey (similar RAL 7001)

### 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 0293-334                                     |
| 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: 4000 V<br>Core/screen: 2000 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).

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.

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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) |
|------------------------|---------------------------------------------------|---------------------|----------------------|----------------|
| ÖLFLEX® CLASSIC 415 CP |                                                   |                     |                      |                |
| 1314000                | 2 X 0.5                                           | 5.8                 | 36                   | 45             |
| 1314001                | 3 G 0.5                                           | 6.1                 | 43                   | 59             |
| 1314002                | 3 X 0.5                                           | 6.1                 | 43                   | 59             |
| 1314003                | 4 G 0.5                                           | 6.5                 | 49                   | 83             |
| 1314004                | 4 X 0.5                                           | 6.5                 | 49                   | 83             |
| 1314005                | 5 G 0.5                                           | 7                   | 57                   | 96             |
| 1314006                | 5 X 0.5                                           | 7                   | 57                   | 96             |
| 1314007                | 7 G 0.5                                           | 7.5                 | 69                   | 136            |
| 1314008                | 7 X 0.5                                           | 7.5                 | 69                   | 136            |
| 1314010                | 12 G 0.5                                          | 9.9                 | 104                  | 200            |
| 1314011                | 12 X 0.5                                          | 9.9                 | 104                  | 200            |
| 1314012                | 18 G 0.5                                          | 11.5                | 141                  | 275            |
| 1314013                | 18 X 0.5                                          | 11.5                | 141                  | 275            |
| 1314014                | 25 G 0.5                                          | 13.4                | 211                  | 350            |
| 1314015                | 25 X 0.5                                          | 13.4                | 211                  | 350            |
| 1314017                | 2 X 0.75                                          | 6.2                 | 43                   | 56             |
| 1314018                | 3 G 0.75                                          | 6.5                 | 52                   | 70             |
| 1314019                | 3 X 0.75                                          | 6.5                 | 52                   | 70             |
| 1314020                | 4 G 0.75                                          | 7                   | 61                   | 95             |
| 1314021                | 4 X 0.75                                          | 7                   | 61                   | 95             |
| 1314022                | 5 G 0.75                                          | 7.7                 | 72                   | 130            |
| 1314023                | 5 X 0.75                                          | 7.7                 | 72                   | 130            |
| 1314024                | 7 G 0.75                                          | 8.3                 | 89                   | 168            |
| 1314025                | 7 X 0.75                                          | 8.3                 | 89                   | 168            |
| 1314026                | 12 G 0.75                                         | 10.9                | 138                  | 232            |
| 1314027                | 18 G 0.75                                         | 12.7                | 211                  | 315            |
| 1314028                | 25 G 0.75                                         | 14.8                | 280                  | 435            |
| 1314029                | 25 X 0.75                                         | 14.8                | 280                  | 435            |
| 1314032                | 2 X 1.0                                           | 6.5                 | 51                   | 84             |
| 1314033                | 3 G 1.0                                           | 6.8                 | 62                   | 110            |
| 1314034                | 3 X 1.0                                           | 6.8                 | 62                   | 110            |
| 1314035                | 4 G 1.0                                           | 7.3                 | 74                   | 130            |
| 1314036                | 4 X 1.0                                           | 7.3                 | 74                   | 130            |
|                        |                                                   |                     |                      |                |

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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) |
|----------------|---------------------------------------------------|---------------------|----------------------|----------------|
| 1314037        | 5 G 1.0                                           | 8.1                 | 88                   | 156            |
| 1314038        | 5 X 1.0                                           | 8.1                 | 88                   | 156            |
| 1314039        | 7 G 1.0                                           | 8.8                 | 112                  | 192            |
| 1314040        | 7 X 1.0                                           | 8.8                 | 112                  | 192            |
| 1314041        | 12 G 1.0                                          | 11.5                | 185                  | 285            |
| 1314042        | 18 G 1.0                                          | 13.9                | 268                  | 395            |
| 1314043        | 25 G 1.0                                          | 15.9                | 354                  | 656            |
| 1314046        | 2 X 1.5                                           | 7.1                 | 65                   | 97             |
| 1314047        | 3 G 1.5                                           | 7.5                 | 82                   | 125            |
| 1314048        | 3 X 1.5                                           | 7.5                 | 82                   | 125            |
| 1314049        | 4 G 1.5                                           | 8.2                 | 100                  | 165            |
| 1314050        | 4 X 1.5                                           | 8.2                 | 100                  | 165            |
| 1314051        | 5 G 1.5                                           | 8.9                 | 119                  | 193            |
| 1314052        | 5 X 1.5                                           | 8.9                 | 119                  | 193            |
| 1314053        | 7 G 1.5                                           | 9.9                 | 154                  | 245            |
| 1314054        | 7 X 1.5                                           | 9.9                 | 154                  | 245            |
| 1314055        | 12 G 1.5                                          | 13                  | 268                  | 365            |
| 1314056        | 18 G 1.5                                          | 15.6                | 373                  | 553            |
| 1314057        | 25 G 1.5                                          | 17.9                | 530                  | 734            |
| 1314058        | 34 G 1.5                                          | 20.8                | 683                  | 944            |
| 1314061        | 3 G 2.5                                           | 8.9                 | 118                  | 188            |
| 1314062        | 4 G 2.5                                           | 9.9                 | 147                  | 236            |
| 1314063        | 5 G 2.5                                           | 11                  | 176                  | 270            |
| 1314064        | 7 G 2.5                                           | 11.9                | 253                  | 340            |
| 1314065        | 12 G 2.5                                          | 16                  | 355                  | 589            |
| 1314066        | 18 G 2.5                                          | 19                  | 569                  | 978            |
| 1314067        | 25 G 2.5                                          | 22.2                | 827                  | 1358           |
| 1314068        | 4 G 4.0                                           | 11.6                | 248                  | 305            |
| 1314070        | 7 G 4.0                                           | 14.4                | 355                  | 500            |
| 1314071        | 4 G 6.0                                           | 14.2                | 343                  | 440            |
| 1314073        | 7 G 6.0                                           | 17                  | 505                  | 672            |
| 1314074        | 4 G 10.0                                          | 17.2                | 535                  | 710            |
| 1314075        | 4 G 16.0                                          | 20.2                | 800                  | 1050           |
| 1314076        | 4 G 25.0                                          | 25.1                | 1075                 | 1570           |
|                |                                                   |                     |                      |                |

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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) |
|----------------|---------------------------------------------------|---------------------|----------------------|----------------|
| 1314077        | 4 G 35.0                                          | 28                  | 1576                 | 2070           |