



**ÖLFLEX® CLASSIC 400 P**

**Abrasion-resistant control cables with PUR sheath for increased application requirements**

**Info**

- High mechanical strength
- Good oil resistance



**Benefits**

- 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
- Also available as DESINA® compliant power cable with black outer sheath colour

**Application range**

- Machine tools
- Industrial machinery and machine tools
- Measurement, control and electrical applications
- Outdoor use is possible within the indicated operating temperature range
- Very suitable for oily wet areas within machinery and production lines that are subject to normal mechanical stress

**Product features**

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

**Norm references / Approvals**

- Based on VDE 0285

**Product make-up**

- Fine-wire strand made of bare copper wires
- Core insulation: special PVC
- Cores twisted in layers
- Special polyurethane outer sheath (PUR)
- Sheath colour: silver grey (RAL 7001)
- DESINA®-compliant: black (RAL 9005)

**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

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

**Minimum bending radius**  
Flexible use: 12.5 x outer diameter  
Fixed installation: 4 x outer diameter

**Nominal voltage**  
U<sub>0</sub>/U: 300/500 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 <sup>2</sup> per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|--|---|---------------------|----------------------|----------------|
| <b>ÖLFLEX® CLASSIC 400 P - sheath colour: grey</b> |   |                     |                      |                |
| 1312802  | 2 X 0.5   | 4.8                 | 10.0                 | 32             |
| 1312003  | 3 G 0.5   | 5.1                 | 15.0                 | 43             |
| 1312803  | 3 X 0.5   | 5.1                 | 15.0                 | 43             |
| 1312004  | 4 G 0.5   | 5.7                 | 19.2                 | 50             |
| 1312804  | 4 X 0.5   | 5.7                 | 19.2                 | 50             |
| 1312005  | 5 G 0.5   | 6.2                 | 24.0                 | 59             |
| 1312805  | 5 X 0.5   | 6.2                 | 24.0                 | 59             |
| 1312007  | 7 G 0.5   | 6.7                 | 34.0                 | 73             |
| 1312807  | 7 X 0.5   | 6.7                 | 34.0                 | 73             |
| 1312010  | 10 G 0.5  | 8.6                 | 48.0                 | 109            |
| 1312012  | 12 G 0.5  | 8.9                 | 57.6                 | 125            |
| 1312018  | 18 G 0.5  | 10.5                | 87.0                 | 180            |
| 1312025  | 25 G 0.5  | 12.4                | 120.0                | 250            |
| 1312034  | 34 G 0.5  | 14.3                | 164.0                | 333            |
| 1312041  | 41 G 0.5  | 15.7                | 197.0                | 400            |
| 1312852  | 2 X 0.75  | 5.4                 | 14.4                 | 41             |
| 1312103  | 3 G 0.75  | 5.7                 | 21.6                 | 51             |
| 1312853  | 3 X 0.75  | 5.7                 | 21.6                 | 51             |
| 1312104  | 4 G 0.75  | 6.2                 | 28.8                 | 62             |
| 1312854  | 4 X 0.75  | 6.2                 | 28.8                 | 62             |
| 1312105  | 5 G 0.75  | 6.7                 | 36.0                 | 74             |
| 1312855  | 5 X 0.75  | 6.7                 | 36.0                 | 74             |
| 1312107  | 7 G 0.75  | 7.3                 | 50.0                 | 97             |
| 1312857  | 7 X 0.75  | 7.3                 | 50.0                 | 97             |
| 1312110  | 10 G 0.75   | 9.6                 | 72.0                 | 142            |
| 1312112  | 12 G 0.75   | 9.9                 | 86.4                 | 163            |
| 1312118  | 18 G 0.75   | 11.7                | 129.6                | 234            |
| 1312125  | 25 G 0.75   | 13.8                | 180.0                | 324            |
| 1312134  | 34 G 0.75   | 15.9                | 244.8                | 431            |
| 1312141  | 41 G 0.75   | 17.4                | 295.2                | 529            |
| 1312902  | 2 X 1.0   | 5.7                 | 19.2                 | 48             |
| 1312203  | 3 G 1.0   | 6.0                 | 28.8                 | 61             |
| 1312903  | 3 X 1.0   | 6.0                 | 28.8                 | 61             |
| 1312204  | 4 G 1.0   | 6.5                 | 38.4                 | 74             |
| 1312904  | 4 X 1.0   | 6.5                 | 38.4                 | 74             |
| 1312205  | 5 G 1.0   | 7.1                 | 48.0                 | 89             |
| 1312905  | 5 X 1.0   | 7.1                 | 48.0                 | 89             |
| 1312207  | 7 G 1.0   | 8.0                 | 67.0                 | 116            |
| 1312210  | 10 G 1.0  | 10.2                | 96.0                 | 171            |
| 1312212  | 12 G 1.0  | 10.5                | 115.0                | 197            |
| 1312218  | 18 G 1.0  | 12.7                | 173.0                | 289            |

| Article number   | Number of cores and mm <sup>2</sup> per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|--|---|---------------------|----------------------|----------------|
| 1312225  | 25 G 1.0  | 14.7                | 240.0                | 412            |
| 1312234  | 34 G 1.0  | 17.1                | 326.4                | 532            |
| 1312241  | 41 G 1.0  | 18.8                | 393.6                | 638            |
| 1312952  | 2 X 1.5   | 6.3                 | 29.0                 | 63             |
| 1312303  | 3 G 1.5   | 6.7                 | 43.0                 | 79             |
| 1312953  | 3 X 1.5   | 6.7                 | 43.0                 | 79             |
| 1312304  | 4 G 1.5   | 7.2                 | 58.0                 | 98             |
| 1312954  | 4 X 1.5   | 7.2                 | 58.0                 | 98             |
| 1312305  | 5 G 1.5   | 8.1                 | 72.0                 | 121            |
| 1312955  | 5 X 1.5   | 8.1                 | 72.0                 | 121            |
| 1312307  | 7 G 1.5   | 8.9                 | 101.0                | 159            |
| 1312957  | 7 X 1.5   | 8.9                 | 101.0                | 159            |
| 1312312  | 12 G 1.5  | 12.0                | 173.0                | 268            |
| 1312318  | 18 G 1.5  | 13.4                | 259.5                | 392            |
| 1312325  | 25 G 1.5  | 16.9                | 360.0                | 531            |
| 1312334  | 34 G 1.5  | 19.4                | 489.6                | 722            |
| 1312341  | 41 G 1.5  | 21.3                | 590.4                | 867            |
| 1312403  | 3 G 2.5   | 8.1                 | 72.0                 | 132            |
| 1312404  | 4 G 2.5   | 8.9                 | 96.0                 | 163            |
| 1312405  | 5 G 2.5   | 10.0                | 120.0                | 186            |
| 1312407  | 7 G 2.5   | 11.1                | 168.0                | 267            |
| 1312412  | 12 G 2.5  | 14.8                | 288.0                | 445            |
| 1312504  | 4 G 4   | 10.8                | 154.0                | 237            |
| 1312505  | 5 G 4   | 12.1                | 192.0                | 291            |
| 1312507  | 7 G 4   | 13.4                | 269.0                | 391            |
| 1312604  | 4 G 6   | 13.0                | 230.4                | 327            |
| 1312605  | 5 G 6   | 14.5                | 288.0                | 424            |
| 1312607  | 7 G 6   | 16.0                | 403.0                | 580            |
| 1312614  | 4 G 10  | 16.2                | 384.0                | 567            |
| 1312615  | 5 G 10  | 18.1                | 480.0                | 695            |
| 1312617  | 7 G 10  | 20.0                | 672.0                | 937            |
| 1312624  | 4 G 16  | 18.8                | 614.4                | 1064           |
| <b>ÖLFLEX® CLASSIC 400 P DESINA - sheath colour: black</b> |   |                     |                      |                |
| 1312970  | 4 G 1.5   | 7.2                 | 58.0                 | 98             |
| 1312981  | 7 G 1.5   | 8.8                 | 101.0                | 159            |
| 1312983  | 11 G 1.5  | 11.6                | 158.0                | 228            |
| 1312973  | 4 G 2.5   | 8.9                 | 96.0                 | 163            |
| 1312974  | 4 G 4   | 10.8                | 154.0                | 237            |
| 1312975  | 4 G 6   | 13.0                | 230.4                | 350            |
| 1312976  | 4 G 10  | 16.2                | 384.0                | 567            |
| 1312978  | 4 G 25  | 23.5                | 960.0                | 1582           |

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](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).  
DESINA® is a registered trademark of the German Machine Tool Builders' Association  
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