

Wide range use

PVC sheath and coloured cores

# ÖLFLEX® CLASSIC 100 SY



**Info**

- With steel wire braid

**Benefits**

- Additional mechanical protection due to steel wire braid

**Application range**

- Plant engineering and construction  
Industrial machinery  
Air conditioning installations
- Areas with increased mechanical stress requirements

**Product features**

- Flame retardant according to IEC 60332-1-2
- Good chemical resistance  
see Appendix T1

**Approvals (Norm references)**



**Design**

- Fine strands of bare copper wires
- PVC insulation LAPP P8 / 1
- PVC inner sheath, grey
- Oxidation protected steel wire braid
- PVC outer sheath, transparent

**Technical data**



**Core identification code**  
Up to 5 cores: according to VDE 0293-308 (appendix T9)  
Starting at 6 cores: ÖLFLEX® colour code (appendix T7)



**Based on**  
IEC 60227-5  
HD 21.5 S3; VDE 0281 Part 5  
HD 21.13 S1; VDE 0281 Part 13



**Specific insulation resistance**  
> 20 GOhm x cm



**Conductor stranding**  
Fine wire in accordance to VDE 0295 Class 5 / IEC 60228 Class 5



**Minimum bending radius**  
Occasional flexing: 20 x cable diameter  
Fixed installed: 6 x outer diameter



**Rated voltage**  
Up to 1.5 mm<sup>2</sup>: U<sub>0</sub>/U: 300/500 V  
Starting at 2.5 mm<sup>2</sup>: U<sub>0</sub>/U: 450/750 V  
Fixed, protected installation:  
U<sub>0</sub>/U: 600/1000 V



**Test voltage**  
4000 V



**Protective conductor**  
G = with protective conductor GN/YE  
X = without protective conductor



**Range of temperature**  
Occasional flexing: -5°C up to +70°C  
Fixed installation: -40°C up to +80°C

| Part number   | Number of cores and mm <sup>2</sup> per conductor | Outer diameter in mm approx. | Copper index kg/km | Weight kg/km approx. |
|---|---|------------------------------|--------------------|----------------------|
| <b>ÖLFLEX® CLASSIC 100 SY; U<sub>0</sub>/U: 300/500 V</b> |   |                              |                    |                      |
| 0016022   | 2 X 0.75  | 8.2                          | 14.4               | 97                   |
| 0016023   | 3 G 0.75  | 8.5                          | 21.6               | 108                  |
| 00160243  | 4 G 0.75  | 9.2                          | 28.8               | 126                  |
| 00160253  | 5 G 0.75  | 9.7                          | 36.0               | 146                  |
| 0016027   | 7 G 0.75  | 10.3                         | 50.0               | 172                  |
| 0016031   | 12 G 0.75   | 12.9                         | 86.0               | 260                  |
| 0016042   | 2 X 1   | 8.5                          | 19.2               | 137                  |
| 0016043   | 3 G 1   | 8.8                          | 29.0               | 154                  |
| 00160443  | 4 G 1   | 9.5                          | 38.4               | 180                  |
| 00160453  | 5 G 1   | 10.1                         | 48.0               | 202                  |
| 0016047   | 7 G 1   | 11.0                         | 67.0               | 242                  |
| 0016057   | 25 G 1  | 18.1                         | 240.0              | 653                  |
| 0016064   | 2 X 1.5   | 9.3                          | 29.0               | 172                  |
| 0016065   | 3 G 1.5   | 9.7                          | 43.0               | 191                  |
| 00160663  | 4 G 1.5   | 10.2                         | 58.0               | 217                  |
| 00160673  | 5 G 1.5   | 11.1                         | 72.0               | 268                  |
| 0016069   | 7 G 1.5   | 11.9                         | 101.0              | 311                  |
| 0016072   | 12 G 1.5  | 15.4                         | 173.0              | 499                  |
| 0016075   | 18 G 1.5  | 17.6                         | 259.0              | 652                  |
| 0016077   | 25 G 1.5  | 20.3                         | 360.0              | 913                  |
| 0016078   | 32 G 1.5  | 22.1                         | 461.0              | 1,065                |

| Part number   | Number of cores and mm <sup>2</sup> per conductor | Outer diameter in mm approx. | Copper index kg/km | Weight kg/km approx. |
|---|---|------------------------------|--------------------|----------------------|
| <b>ÖLFLEX® CLASSIC 100 SY; U<sub>0</sub>/U: 450/750 V</b> |   |                              |                    |                      |
| 0016087   | 2 X 2.5   | 12.1                         | 48.0               | 245                  |
| 0016088   | 3 G 2.5   | 12.6                         | 72.0               | 278                  |
| 00160893  | 4 G 2.5   | 13.9                         | 96.0               | 339                  |
| 00160903  | 5 G 2.5   | 15.2                         | 120.0              | 397                  |
| 0016092   | 7 G 2.5   | 16.3                         | 168.0              | 470                  |
| 0016101   | 2 X 4   | 13.6                         | 76.8               | 329                  |
| 00161023  | 4 G 4   | 15.7                         | 154.0              | 457                  |
| 00161033  | 5 G 4   | 17.1                         | 192.0              | 545                  |
| 0016106   | 3 G 6   | 15.8                         | 173.0              | 544                  |
| 00161073  | 4 G 6   | 17.2                         | 230.0              | 687                  |
| 00161083  | 5 G 6   | 18.8                         | 288.0              | 798                  |
| 00161103  | 4 G 10  | 21.3                         | 384.0              | 1,009                |
| 00161113  | 5 G 10  | 23.3                         | 480.0              | 1,197                |
| 00161133  | 4 G 16  | 24.1                         | 614.0              | 1,384                |
| 00161143  | 5 G 16  | 26.8                         | 768.0              | 1,740                |
| 00161163  | 4 G 25  | 29.4                         | 960.0              | 2,021                |
| 00161173  | 5 G 25  | 32.6                         | 1,200.0            | 2,464                |
| 00161183  | 4 G 35  | 32.4                         | 1,344.0            | 2,570                |
| 00161193  | 5 G 35  | 36.0                         | 1,680.0            | 3,185                |
| 00161203  | 4 G 50  | 38.8                         | 1,920.0            | 3,514                |

Copper price basis: EUR 150 / 100 kg; For utilization and definition of „Metal price basis“ and „Metal index“ see Appendix T17  
Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)  
Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum  
Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)  
Single lengths for sizes: ≥ 4G35 max. 500m; ≥ 4G95 max. 400m

**Comparable products**

- ÖLFLEX® CLASSIC 110 SY see page 33

**Accessories**

- Cable shears KT 4 and KT 5 see page 904