



Info

- Core Line for ordinary duty in power chain applications
- EMC-compliant

ÖLFLEX® FD 891 CY

Screened, PVC-insulated, numbered, PVC inner and outer sheath, approved



Benefits

- Multi-standard = fewer part varieties = cost savings
- Also suitable for mobile outdoor use

Application range

- In power chains or moving machine parts
- Suitable for use in measuring, control and regulating circuits
- Assembly lines, production lines, in all kinds of machines
- Machine tools
- Plant engineering

Product features

- Oil-resistant
- Low-adhesive surface
- Flame-retardant according to IEC 60332-1-2 & CSA FT1
- In damp or wet interiors
- Designed for 2 up to 8 million bending/unbending cycles in power chain applications.

Norm references / Approvals

- UL-AWM-Style 21098
- CSA AWM IA/B; IIA/B FT 1
- For travel distances up to 10 m.
- For use in power chains: Please comply with the assembly guidelines listed in Appendix T3
- UL File Nr. E63634

Product make-up

- Extra-fine wire strand made of bare copper wires (class 6)
- Core insulation: PVC
- Cores twisted in layers in short lay lengths
- Non-woven wrapping
- Tinned-copper braiding
- Non-woven wrapping
- PVC outer sheath, 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
- Specific insulation resistance**
> 20 GOhm x cm
- Conductor stranding**
Extra-fine wire acc. to VDE 0295, class 6/ IEC 60228 class 6
- Minimum bending radius**
For flexible use:
7.5 x outer diameter
Fixed installation: 4 x outer diameter
- Nominal voltage**
IEC: 300/500 V
UL/CSA: 600 V
- Test voltage**
4000 V
- Protective conductor**
G = with GN-YE protective conductor
X = without protective conductor
- Temperature range**
Flexing: -5°C to +90°C
Fixed installation: -40°C to +90°C

| Article number | Number of cores and mm² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|----------------|---------------------------------------|---------------------|----------------------|----------------|
| 1027003 | 3 G 0.5 | 7.9 | 38.9 | 89 |
| 1027004 | 4 G 0.5 | 8.5 | 47.3 | 102 |
| 1027005 | 5 G 0.5 | 9.2 | 55.3 | 127 |
| 1027007 | 7 G 0.5 | 10.9 | 81.1 | 177 |
| 1027012 | 12 G 0.5 | 12.6 | 99.9 | 234 |
| 1027018 | 18 G 0.5 | 15.5 | 160.1 | 381 |
| 1027025 | 25 G 0.5 | 17.7 | 203.9 | 472 |
| 1027103 | 3 G 0.75 | 8.2 | 49.2 | 105 |
| 1027104 | 4 G 0.75 | 8.9 | 59.9 | 123 |
| 1027105 | 5 G 0.75 | 10.0 | 68.6 | 155 |
| 1027107 | 7 G 0.75 | 11.6 | 91.7 | 206 |
| 1027112 | 12 G 0.75 | 13.8 | 152.1 | 304 |
| 1027118 | 18 G 0.75 | 16.3 | 204.4 | 425 |
| 1027292 | 3 G 1.0 | 8.7 | 56.0 | 124 |
| 1027301 | 4 G 1.0 | 9.8 | 70.2 | 155 |
| 1027293 | 5 G 1.0 | 10.6 | 84.0 | 182 |
| 1027294 | 7 G 1.0 | 12.3 | 108.0 | 237 |
| 1027295 | 12 G 1.0 | 14.7 | 178.0 | 352 |
| 1027302 | 18 G 1.0 | 17.3 | 255.0 | 497 |
| 1027296 | 25 G 1.0 | 20.5 | 352.0 | 702 |
| 1027303 | 3 G 1.5 | 9.7 | 74.8 | 152 |
| 1027304 | 4 G 1.5 | 10.6 | 94.2 | 187 |
| 1027305 | 5 G 1.5 | 11.4 | 101.1 | 187 |
| 1027307 | 7 G 1.5 | 13.8 | 165.6 | 320 |
| 1027312 | 12 G 1.5 | 16.3 | 246.5 | 460 |
| 1027318 | 18 G 1.5 | 19.5 | 374.7 | 677 |
| 1027325 | 25 G 1.5 | 23.6 | 489.4 | 926 |
| 1027403 | 3 G 2.5 | 10.6 | 103.9 | 194 |
| 1027404 | 4 G 2.5 | 11.8 | 161.8 | 235 |
| 1027405 | 5 G 2.5 | 13.0 | 184.6 | 306 |
| 1027407 | 7 G 2.5 | 15.8 | 242.1 | 428 |
| 1027412 | 12 G 2.5 | 18.2 | 403.5 | 590 |
| 1027503 | 3 G 4 | 12.4 | 157.5 | 275 |
| 1027504 | 4 G 4 | 14.0 | 218.1 | 365 |
| 1027507 | 7 G 4 | 18.3 | 373.2 | 629 |
| 1027604 | 4 G 6 | 16.1 | 304.7 | 500 |
| 1027624 | 4 G 16 | 27.1 | 803.6 | 1357 |
| 1027634 | 4 G 25 | 31.3 | 1,180.4 | 1879 |
| 1027644 | 4 G 35 | 34.3 | 1,593.7 | 2360 |

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).
 DESINA® is a registered trademark of the German Machine Tool Builders' Association
 Photographs are not to scale and do not represent detailed images of the respective products.