

## ÖLFLEX® FD 891 CY

Highly flexible, screened control cable with PVC insulation and PVC inner and outer sheath - certified

ÖLFLEX® FD 891 CY - Screened power and control cable for versatile use in power chains with UL/cUL AWM certification.

### Info

Core Line Performance - Medium to increased travel lengths or acceleration

AWM certification for USA and Canada

EMC compliant copper screening



Oil-resistant



Power chain



Interference signals



UV-resistant

### Benefits

Multi-standard certification reduces part varieties and saves costs

Certified for the USA and Canada for export-oriented machine, appliance and apparatus manufacturers

Under consideration of the temperature range also suitable for flexible outdoor use

Copper screening complies with EMC requirements and protects against electromagnetic interference

### 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

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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

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## Product features

Flame-retardant according to IEC 60332-1-2 & CSA FT1  
Oil-resistant  
Low-adhesive surface  
EMC-compliant

## Norm references / Approvals

UL AWM Style 21098  
CSA AWM IA/B; IIA/B FT 1  
UL File No. E63634  
For use in power chains: Please comply with assembly guideline Appendix T3

## 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  
PVC outer sheath, black (similar RAL 9005)

## 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:                   | Extra-fine wire acc. to VDE 0295, class 6/ IEC 60228 class 6                                  |
| Minimum bending radius:                | Flexing: up from 7.5 x outer diameter<br>Fixed installation: 4 x outer diameter               |
| Nominal voltage:                       | IEC: U <sub>0</sub> /U 300/500 V<br>UL/CSA: 600 V                                             |
| Test voltage:                          | 4000 V                                                                                        |
| Protective conductor:                  | G = with GN-YE protective conductor<br>X = without protective conductor                       |
| Temperature range:                     | Flexing: -5 °C to +70 °C (UL: +90 °C)<br>Fixed installation: -40 °C to +80 °C<br>(UL: +90 °C) |
| Bending cycles & operation parameters: | See Selection Table A2-1 in the appendix of our online catalogue                              |

## Note

Unless specified otherwise, the shown product values are nominal values at room temperature. 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).  
DESINA - Decentralized and standardized installation technology for machine tools and manufacturing systems  
Photographs and graphics are not to scale and do not represent detailed images of the respective products.

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## ÖLFLEX® FD 891 CY

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® FD 891 CY |                                                   |                     |                      |                |
| 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                  | 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                   | 124            |
| 1027301           | 4 G 1.0                                           | 9.8                 | 70.2                 | 155            |
| 1027293           | 5 G 1.0                                           | 10.6                | 84                   | 182            |
| 1027294           | 7 G 1.0                                           | 12.3                | 108                  | 237            |
| 1027295           | 12 G 1.0                                          | 14.7                | 178                  | 352            |
| 1027302           | 18 G 1.0                                          | 17.3                | 255                  | 497            |
| 1027296           | 25 G 1.0                                          | 20.5                | 352                  | 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                  | 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 4.0                                           | 12.4                | 157.5                | 275            |
|                   |                                                   |                     |                      |                |

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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) |
|----------------|---------------------------------------------------|---------------------|----------------------|----------------|
| 1027504        | 4 G 4.0                                           | 14                  | 218.1                | 365            |
| 1027507        | 7 G 4.0                                           | 18.3                | 373.2                | 629            |
| 1027604        | 4 G 6.0                                           | 16.1                | 304.7                | 500            |
| 1027624        | 4 G 16.0                                          | 27.1                | 803.6                | 1357           |
| 1027634        | 4 G 25.0                                          | 31.3                | 1,180.4              | 1879           |
| 1027644        | 4 G 35.0                                          | 34.3                | 1,593.7              | 2360           |

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