

## ÖLFLEX® FD 855 CP

Halogen-free, highly flexible and screened control cable with abrasion and oil resistant PUR sheath - certified

ÖLFLEX® FD 855 CP - Halogen-free and screened power and control cable for power chain use in harsh conditions with UL/cUL AWM certification

### Info

Extended Line Performance - Long travel lengths or high acceleration

EMC compliant copper screening

UL/cUL certified for North America



UV-resistant



Interference signals



Power chain



Oil-resistant



Mechanical resistance



Halogen-free



Suitable for outdoor use



Cold-resistant

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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

## ÖLFLEX® FD 855 CP

### Benefits

Allows much faster speed and accelerations which increases the economic efficiency of the machines  
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  
Wide temperature range for applications in harsh climatic environments  
Multi-standard certification reduces part varieties and saves costs  
Copper screening complies with EMC requirements and protects against electromagnetic interference

### Application range

In power chains or moving machine parts  
Particularly in wet areas of machine tools and transfer lines  
For use in assembling & pick-and-place machinery  
Assembly lines, production lines, in all kinds of machines  
In EMC-sensitive environments  
For indoor and outdoor use

### Product features

Good mechanical, abrasion and notch-resistance  
Halogen-free and flame-retardant  
(IEC 60332-1-2)  
Resistant to oil and drilling fluids according to IEC 61892-4, Appendix D  
Flexible down to -40 °C  
Low-adhesive surface  
EMC-compliant

### Norm references / Approvals

Based on VDE 0250 / 0285  
USA: UL AWM Style 21576 with add. VW-1  
Canada: cUL AWM Style I/II A/B FT1  
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: TPE  
Cores twisted together in extremely short lay lengths  
Non-woven wrapping  
Inner sheath made of TPE  
Tinned-copper braiding  
PUR outer sheath, grey (similar RAL 7001)

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## 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 0293-1                                     |
| 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 U0/U: 300/500 V<br>UL: 1000 V                                               |
| Test voltage:                          | 3000 V                                                                          |
| Protective conductor:                  | G = with GN-YE protective conductor<br>X = without protective conductor         |
| Temperature range:                     | Flexing: -40°C to +80°C<br>Fixed installation: -50°C to +80°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).

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.

# ÖLFLEX® FD 855 CP

| Article number    | Number of cores and mm² per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|-------------------|---------------------------------------|---------------------|----------------------|----------------|
| ÖLFLEX® FD 855 CP |                                       |                     |                      |                |
| 0027605           | 2 X 0.5                               | 6.7                 | 32                   | 67             |
| 0027606           | 3 G 0.5                               | 7.1                 | 40                   | 79             |
| 0027607           | 5 G 0.5                               | 8.2                 | 53                   | 107            |
| 0027608           | 6 G 0.5                               | 8.7                 | 59                   | 121            |
| 0027609           | 7 G 0.5                               | 9.5                 | 67                   | 132            |
| 0027610           | 12 G 0.5                              | 10.9                | 97                   | 190            |
| 0027611           | 18 G 0.5                              | 12.9                | 131                  | 245            |
| 0027612           | 20 G 0.5                              | 13.5                | 156                  | 281            |
| 0027613           | 25 G 0.5                              | 15.6                | 190                  | 367            |
| 0027615           | 30 G 0.5                              | 15.8                | 222                  | 408            |
| 0027616           | 36 G 0.5                              | 16.9                | 251                  | 459            |
| 0027620           | 2 X 0.75                              | 7.2                 | 40                   | 79             |
| 0027621           | 3 G 0.75                              | 7.6                 | 47                   | 96             |
| 0027622           | 4 G 0.75                              | 8.3                 | 58                   | 112            |
| 0027623           | 5 G 0.75                              | 8.9                 | 65                   | 126            |
| 0027624           | 7 G 0.75                              | 10.6                | 85                   | 165            |
| 0027625           | 12 G 0.75                             | 12.1                | 127                  | 231            |
| 0027626           | 18 G 0.75                             | 14.6                | 198                  | 330            |
| 0027628           | 25 G 0.75                             | 17.7                | 259                  | 459            |
| 0027630           | 36 G 0.75                             | 19.5                | 348                  | 605            |
| 0027635           | 2 X 1.0                               | 7.6                 | 45                   | 93             |
| 0027636           | 3 G 1.0                               | 8.1                 | 55                   | 109            |
| 0027637           | 4 G 1.0                               | 8.8                 | 68                   | 126            |
| 0027638           | 5 G 1.0                               | 9.6                 | 81                   | 147            |
| 0027639           | 7 G 1.0                               | 11.3                | 106                  | 196            |
| 0027640           | 12 G 1.0                              | 13.2                | 175                  | 292            |
| 0027641           | 18 G 1.0                              | 15.9                | 242                  | 418            |
| 0027643           | 25 G 1.0                              | 19.5                | 329                  | 575            |
| 0027645           | 30 G 1.0                              | 19.6                | 377                  | 635            |
| 0027646           | 36 G 1.0                              | 21.2                | 467                  | 758            |
| 0027649           | 2 X 1.5                               | 8.3                 | 58                   | 115            |
| 0027650           | 3 G 1.5                               | 8.9                 | 76                   | 139            |
| 0027661           | 4 G 1.5                               | 9.8                 | 91                   | 156            |
|                   |                                       |                     |                      |                |

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| Article number | Number of cores and mm² per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|----------------|---------------------------------------|---------------------|----------------------|----------------|
| 0027651        | 5 G 1.5                               | 10.8                | 111                  | 198            |
| 0027652        | 7 G 1.5                               | 12.5                | 145                  | 254            |
| 0027653        | 12 G 1.5                              | 14.9                | 242                  | 416            |
| 0027654        | 18 G 1.5                              | 17.4                | 346                  | 564            |
| 0027656        | 25 G 1.5                              | 21.4                | 486                  | 811            |
| 0027659        | 36 G 1.5                              | 23.4                | 655                  | 1066           |
| 0027380        | 3 G 2.5                               | 10.7                | 110                  | 194            |
| 0027381        | 4 G 2.5                               | 11.7                | 136                  | 234            |
| 0027382        | 5 G 2.5                               | 12.8                | 180                  | 293            |
| 0027383        | 7 G 2.5                               | 15.6                | 246                  | 418            |
| 0027384        | 12 G 2.5                              | 18                  | 377                  | 629            |
| 0027385        | 18 G 2.5                              | 21.5                | 569                  | 912            |
| 0027386        | 25 G 2.5                              | 26.5                | 765                  | 1266           |

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