

## ÖLFLEX® FD 855 P

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

ÖLFLEX® FD 855 P - Halogen-free 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

All-rounder with small bending radii

UL/cUL certified for North America



Suitable for outdoor use



Halogen-free



Cold-resistant



Mechanical resistance



Oil-resistant



Power chain



UV-resistant

### Benefits

Allows much faster speed and accelerations which increases the economic efficiency of the machines

Multi-standard certification reduces part varieties and saves costs

Last Update (02.01.2024)

©2024 Lapp Group - Technical changes reserved

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 P

Low particle emission at moved chain application

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

### Application range

In power chains or moving machine parts

Particularly in wet areas of machine tools and transfer lines

Assembly lines, production lines, in all kinds of machines

For use in assembling & pick-and-place machinery

For highly dynamic applications

For indoor and outdoor use

### Product features

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

Abrasion and notch-resistant

Low-adhesive surface

### Norm references / Approvals

Based on VDE 0250 / 0285

USA: UL AWM Style 21576

Canada: cUL AWM Style I/II A FT2

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

PUR outer sheath, grey (similar RAL 7001)

### Technical Data

Classification ETIM 5:

ETIM 5.0 Class-ID: EC000104

ETIM 5.0 Class-Description: Control cable

Classification ETIM 6:

ETIM 6.0 Class-ID: EC000104

ETIM 6.0 Class-Description: Control cable

Core identification code:

Black with white numbers acc. to VDE 0293-334

Conductor stranding:

Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6

Minimum bending radius:

Flexing: up from 5 x outer diameter

Fixed installation: 3 x outer diameter

Nominal voltage:

IEC U0/U: 300/500 V

UL: 1000 V

Test voltage:

3000 V

Protective conductor:

G = with GN-YE protective conductor

X = without protective conductor

Last Update (02.01.2024)

©2024 Lapp Group - Technical changes reserved

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 P

Temperature range:

Flexing: -40 °C to +80 °C

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  $\leq$  30 kg or  $\leq$  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 P

| Article number   | Number of cores and mm <sup>2</sup> per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|------------------|---------------------------------------------------|---------------------|----------------------|----------------|
| ÖLFLEX® FD 855 P |                                                   |                     |                      |                |
| 0027530          | 2 X 0.5                                           | 5.1                 | 10                   | 34             |
| 0027531          | 3 G 0.5                                           | 5.5                 | 14                   | 40             |
| 0027532          | 5 G 0.5                                           | 6.6                 | 24                   | 55             |
| 0027533          | 6 G 0.5                                           | 7.1                 | 29                   | 63             |
| 0027534          | 7 G 0.5                                           | 7.7                 | 34                   | 76             |
| 0027535          | 12 G 0.5                                          | 9.1                 | 58                   | 114            |
| 0027536          | 18 G 0.5                                          | 10.9                | 86                   | 165            |
| 0027537          | 20 G 0.5                                          | 11.5                | 96                   | 180            |
| 0027538          | 25 G 0.5                                          | 13.4                | 120                  | 219            |
| 0027540          | 30 G 0.5                                          | 13.6                | 144                  | 251            |
| 0027541          | 36 G 0.5                                          | 14.7                | 173                  | 290            |
| 0027545          | 2 X 0.75                                          | 5.6                 | 14                   | 42             |
| 0027546          | 3 G 0.75                                          | 6                   | 22                   | 50             |
| 0027547          | 4 G 0.75                                          | 6.7                 | 29                   | 60             |
| 0027548          | 5 G 0.75                                          | 7.3                 | 36                   | 71             |
| 0027549          | 7 G 0.75                                          | 8.8                 | 50                   | 99             |
| 0027550          | 12 G 0.75                                         | 10.3                | 86                   | 158            |
| 0027551          | 18 G 0.75                                         | 12.4                | 130                  | 219            |
| 0027552          | 20 G 0.75                                         | 13.3                | 144                  | 240            |
| 0027553          | 25 G 0.75                                         | 15.5                | 180                  | 309            |
| 0027555          | 36 G 0.75                                         | 16.9                | 259                  | 411            |
| 0027560          | 2 X 1.0                                           | 6                   | 19                   | 50             |
| 0027561          | 3 G 1.0                                           | 6.5                 | 29                   | 61             |
| 0027562          | 4 G 1.0                                           | 7.2                 | 38                   | 70             |
| 0027563          | 5 G 1.0                                           | 7.8                 | 48                   | 93             |
| 0027564          | 7 G 1.0                                           | 9.5                 | 67                   | 122            |
| 0027565          | 12 G 1.0                                          | 11.2                | 115                  | 196            |
| 0027566          | 18 G 1.0                                          | 13.7                | 173                  | 274            |
| 0027567          | 20 G 1.0                                          | 14.4                | 192                  | 300            |
| 0027568          | 25 G 1.0                                          | 16.8                | 240                  | 385            |
| 0027570          | 30 G 1.0                                          | 17                  | 288                  | 444            |
| 0027571          | 36 G 1.0                                          | 18.6                | 346                  | 516            |
| 0027575          | 2 X 1.5                                           | 6.7                 | 29                   | 68             |
|                  |                                                   |                     |                      |                |

# ÖLFLEX® FD 855 P

| Article number | Number of cores and mm <sup>2</sup> per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|----------------|---------------------------------------------------|---------------------|----------------------|----------------|
| 0027576        | 3 G 1.5                                           | 7.3                 | 43                   | 83             |
| 0027586        | 4 G 1.5                                           | 8                   | 58                   | 100            |
| 0027577        | 5 G 1.5                                           | 9                   | 72                   | 128            |
| 0027578        | 7 G 1.5                                           | 10.7                | 101                  | 177            |
| 0027579        | 12 G 1.5                                          | 12.7                | 173                  | 275            |
| 0027580        | 18 G 1.5                                          | 15.2                | 259                  | 405            |
| 0027582        | 25 G 1.5                                          | 18.8                | 360                  | 565            |
| 0027584        | 30 G 1.5                                          | 18.8                | 432                  | 652            |
| 0027585        | 36 G 1.5                                          | 20.6                | 518                  | 759            |
| 0027587        | 41 G 1.5                                          | 22.4                | 614                  | 978            |
| 0027370        | 3 G 2.5                                           | 8.9                 | 72                   | 121            |
| 0027371        | 4 G 2.5                                           | 9.9                 | 96                   | 163            |
| 0027372        | 5 G 2.5                                           | 11                  | 120                  | 196            |
| 0027373        | 7 G 2.5                                           | 13.4                | 168                  | 266            |
| 0027374        | 12 G 2.5                                          | 15.8                | 288                  | 446            |
| 0027375        | 18 G 2.5                                          | 18.9                | 432                  | 665            |
| 0027376        | 25 G 2.5                                          | 23.5                | 600                  | 929            |