

## ÖLFLEX® FD 90

Highly flexible, single core cable with PVC insulation and PVC sheath - certified for North America

ÖLFLEX® FD 90 - Single core power cable for versatile use in power chains with UL/CSA AWM certification.

### Info

Core Line Performance - Medium to increased travel lengths or acceleration

Well-proven and reliable

AWM certification for USA and Canada



Oil-resistant



Power chain



UV-resistant

### Benefits

Multi-standard certification reduces part varieties and saves costs

Multifunctional application possibilities

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

Also suitable for fixed installation where space is limited

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

### Application range

In power chains or moving machine parts

For internal wiring of electric and electronic equipment in switch cabinets

Specially designed for power circuits of servomotors driven by frequency converters

This cable can substitute multi-core power cables where space requirements or minimum bending radii cause problems

Test systems in the automotive industry, vehicles and stationary fuel cell systems

## ÖLFLEX® FD 90

### Product features

Flame-retardant according to IEC 60332-1-2 & CSA FT1  
 High oil-resistance  
 Low-adhesive surface

### Norm references / Approvals

Based on VDE 0250 / 0285  
 UL-AWM-Style 10107, cRU AWM II A/B FT1  $\geq 150\text{mm}^2$   
 CSA AWM IA/B IIA/B FT 1  $\leq 120\text{mm}^2$   
 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)  
 Non-woven wrapping  
 Core insulation: PVC  
 PVC outer sheath, black (similar RAL 9005)

### Technical Data

|  |  |
|--|--|
| Classification ETIM 5:                 | ETIM 5.0 Class-ID: EC000057<br>ETIM 5.0 Class-Description: Low voltage power cable   |
| Classification ETIM 6:                 | ETIM 6.0 Class-ID: EC000057<br>ETIM 6.0 Class-Description: Low voltage power cable   |
| Core identification code:              | Black or green-yellow, other colours available on request  |
| Conductor stranding:                   | Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6   |
| Minimum bending radius:                | Flexing: up from 7.5 x outer diameter<br>Fixed installation: 3 x outer diameter  |
| Nominal voltage:                       | IEC: $U_0/U$ 600/1000 V<br>UL & CSA: 600 V   |
| Test voltage:                          | 4000 V   |
| Temperature range:                     | Flexing: $-5^\circ\text{C}$ to $+70^\circ\text{C}$ (UL: $+90^\circ\text{C}$ )<br>Fixed installation: $-40^\circ\text{C}$ to $+80^\circ\text{C}$ (UL: $+90^\circ\text{C}$ ) |
| 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  $\leq 30\text{ kg}$  or  $\leq 250\text{ m}$ , 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 90**

| Article number | Conductor cross-section (mm <sup>2</sup> ) | Outer diameter [mm] | Core colour  | Copper index (kg/km) | Weight (kg/km) |
|----------------|--|---------------------|--------------|----------------------|----------------|
| ÖLFLEX® FD 90  |  |                     |              |                      |                |
| 0026600        | 10   | 9                   | green-yellow | 96                   | 176            |
| 0026601        | 10   | 9                   | black        | 96                   | 176            |
| 0026603        | 16   | 10.5                | green-yellow | 153.6                | 240            |
| 0026604        | 16   | 10.5                | black        | 153.6                | 240            |
| 0026607        | 25   | 11.8                | green-yellow | 240                  | 361            |
| 0026608        | 25   | 11.8                | black        | 240                  | 361            |
| 0026610        | 35   | 14.2                | green-yellow | 336                  | 482            |
| 0026611        | 35   | 14.2                | black        | 336                  | 482            |
| 0026613        | 50   | 16.2                | green-yellow | 480                  | 660            |
| 0026614        | 50   | 16.2                | black        | 480                  | 660            |
| 0026616        | 70   | 18.3                | green-yellow | 672                  | 898            |
| 0026617        | 70   | 18.3                | black        | 672                  | 898            |
| 0026619        | 95   | 19.8                | green-yellow | 912                  | 1179           |
| 0026620        | 95   | 19.8                | black        | 912                  | 1179           |
| 0026622        | 120  | 23.4                | green-yellow | 1152                 | 1521           |
| 0026623        | 120  | 23.4                | black        | 1152                 | 1521           |
| 0026625        | 150  | 25.1                | green-yellow | 1440                 | 1739           |
| 0026626        | 150  | 25.1                | black        | 1440                 | 1739           |
| 0026628        | 185  | 28.1                | green-yellow | 1776                 | 2305           |
| 0026629        | 185  | 28.1                | black        | 1776                 | 2305           |
| 0026634        | 240  | 31.6                | green-yellow | 2304                 | 2944           |
| 0026635        | 240  | 31.6                | black        | 2304                 | 2944           |
| 0026640        | 300  | 33.5                | green-yellow | 2880                 | 3545           |
| 0026641        | 300  | 33.5                | black        | 2880                 | 3545           |

Last Update (25.04.2024)

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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.

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