

## ÖLFLEX® FD 90 CY

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

ÖLFLEX® FD 90 CY - Screened 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

AWM certification for USA and Canada

EMC compliant copper screening



Oil-resistant



Power chain



Interference signals

### Benefits

Multi-standard certification reduces part varieties and saves costs

For various applications

Also suitable for fixed installation where space is limited

Copper screening complies with EMC requirements and protects against electromagnetic interference

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 screened multi-core motor cables where space requirements or minimum bending radii cause problems

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

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### Product features

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

### 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  
 Tinned-copper braiding  
 PVC outer sheath, orange (similar RAL 2003)

### Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000057 ETIM 5.0 Class-Description: Low voltage power cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000057 ETIM 6.0 Class-Description: Low voltage power cable
Core identification code:	Black, other colours are available upon 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 Fixed installation: 3 x outer diameter
Nominal voltage:	IEC: $U_0/U$ 600/1000 V UL & CSA: 600 V
Test voltage:	4000 V
Temperature range:	Flexing: $-5^\circ\text{C}$ to $+70^\circ\text{C}$ (UL: $+90^\circ\text{C}$ ) Fixed installation: $-40^\circ\text{C}$ to $+70^\circ\text{C}$ (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  $\leq 30$  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).  
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You can find the current technical data in the corresponding data sheet.

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Article number	Conductor cross-section (mm <sup>2</sup> )	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® FD 90 CY				
0026651	10	9.7	127.6	227
0026653	16	11.2	186.2	297
0026655	25	12.5	257.8	410
0026657	35	15.1	400.7	607
0026659	50	17.1	554.8	808
0026661	70	19.4	775.6	1081
0026663	95	20.9	1,028.1	1382
0026665	120	24.5	1,282.4	1752
0026667	150	26.2	1578	1924
0026669	185	29.2	1935	2611
0026671	240	32.9	2526	3372
0026673	300	34.8	3,128.8	4105

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