

## ÖLFLEX® FD 90 CY

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

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



Oil-resistant



Power chain



Interference signals

### Info

Core Line for ordinary duty in power chain applications

AWM certification for USA and Canada

EMC compliant copper screening

### 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

### 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 (RAL 2003)

### 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 features

Designed for 5 million alternating bending cycles and travel distances up to 10 meter

Flame-retardant according to IEC 60332-1-2 & CSA FT1

High oil-resistance

Low-adhesive surface

EMC-compliant

**ÖLFLEX® FD 90 CY****Technical Data**

Core identification code:	Black, other colours are available upon request
Classification:	ETIM 5.0 Class-ID: EC000057 ETIM 5.0 Class-Description: Low voltage power cable
Conductor stranding:	Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6
Minimum bending radius:	For flexible use: 7.5 x outer diameter Fixed installation: 3 x outer diameter
Nominal voltage:	IEC: U <sub>0</sub> /U 600/1000 V UL & CSA: 600 V
Test voltage:	4000 V
Protective conductor:	X = without protective conductor
Temperature range:	Flexing: -5°C to +90°C Fixed installation: -40°C to +90°C

**Note**

Unless specified otherwise, the shown product values are nominal values. 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).

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Photographs are not to scale and do not represent detailed images of the respective products.



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Part 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	1028.1	1382
0026665	120	24.5	1282.4	1752
0026667	150	26.2	1410.4	1924
0026669	185	29.2	1935.0	2611
0026671	240	32.9	2526.0	3372
0026673	300	34.8	3128.8	4105