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

Last Update (06.06.2023)

Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

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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 ≥150mm²
CSA AWM IA/B IIA/B FT 1 ≤ 120 mm²
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 °C to +70 °C (UL: +90 °C) Fixed installation: -40 °C to +80 °C (UL: +90 °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
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).
DESINA - Decentralized and standardized installation technology for machine tools and manufacturing systems
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.

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PRODUCT INFORMATION

Article number	Conductor cross-section (mm^2)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
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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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