

ÖLFLEX® FD 891 CY

Highly flexible, screened control cable with PVC insulation and PVC inner and outer sheath - certified

ÖLFLEX® FD 891 CY - Screened power and control cable for versatile use in power chains with UL/cUL 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



UV-resistant

Benefits

Multi-standard certification reduces part varieties and saves costs

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

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

Copper screening complies with EMC requirements and protects against electromagnetic interference

Application range

In power chains or moving machine parts

Suitable for use in measuring, control and regulating circuits

Assembly lines, production lines, in all kinds of machines

Machine tools

Plant engineering

Last Update (31.12.2023)

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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
Oil-resistant
Low-adhesive surface
EMC-compliant

Norm references / Approvals

UL AWM Style 21098
CSA AWM IA/B; IIA/B FT 1
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: PVC
Cores twisted in layers in short lay lengths
Non-woven wrapping
Tinned-copper braiding
PVC outer sheath, black (similar RAL 9005)

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 acc. to VDE 0295, class 6/ IEC 60228 class 6
Minimum bending radius:	Flexing: up from 7.5 x outer diameter Fixed installation: 4 x outer diameter
Nominal voltage:	IEC: U ₀ /U 300/500 V UL/CSA: 600 V
Test voltage:	4000 V
Protective conductor:	G = with GN-YE protective conductor X = without protective conductor
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.

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Prices are net prices without VAT and surcharges. Sale to business customers only.

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Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
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1027003	3 G 0.5	7.9	38.9	89
1027004	4 G 0.5	8.5	47.3	102
1027005	5 G 0.5	9.2	55.3	127
1027007	7 G 0.5	10.9	81.1	177
1027012	12 G 0.5	12.6	99.9	234
1027018	18 G 0.5	15.5	160.1	381
1027025	25 G 0.5	17.7	203.9	472
1027103	3 G 0.75	8.2	49.2	105
1027104	4 G 0.75	8.9	59.9	123
1027105	5 G 0.75	10	68.6	155
1027107	7 G 0.75	11.6	91.7	206
1027112	12 G 0.75	13.8	152.1	304
1027118	18 G 0.75	16.3	204.4	425
1027292	3 G 1.0	8.7	56	124
1027301	4 G 1.0	9.8	70.2	155
1027293	5 G 1.0	10.6	84	182
1027294	7 G 1.0	12.3	108	237
1027295	12 G 1.0	14.7	178	352
1027302	18 G 1.0	17.3	255	497
1027296	25 G 1.0	20.5	352	702
1027303	3 G 1.5	9.7	74.8	152
1027304	4 G 1.5	10.6	94.2	187
1027305	5 G 1.5	11.4	101.1	187
1027307	7 G 1.5	13.8	165.6	320
1027312	12 G 1.5	16.3	246.5	460
1027318	18 G 1.5	19.5	374.7	677
1027325	25 G 1.5	23.6	489.4	926
1027403	3 G 2.5	10.6	103.9	194
1027404	4 G 2.5	11.8	161.8	235
1027405	5 G 2.5	13	184.6	306
1027407	7 G 2.5	15.8	242.1	428
1027412	12 G 2.5	18.2	403.5	590
1027503	3 G 4.0	12.4	157.5	275

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Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1027504	4 G 4.0	14	218.1	365
1027507	7 G 4.0	18.3	373.2	629
1027604	4 G 6.0	16.1	304.7	500
1027624	4 G 16.0	27.1	803.6	1357
1027634	4 G 25.0	31.3	1,180.4	1879
1027644	4 G 35.0	34.3	1,593.7	2360

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