

U.I. Lapp GmbH	PRODUCT INFORMATION	
	ÖLFLEX® FD 891 CY	14.11.2013

Screened, PVC-insulated, numbered, PVC inner and outer sheath, approved
Multi-standard = fewer part varieties = cost savings
Also suitable for mobile outdoor use



Oil-resistant



Power chain



Interference signals



UV-resistant

Info

Core Line for ordinary duty in power chain applications
EMC-compliant

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

Design

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
Non-woven wrapping
PVC outer sheath, black (RAL 9005)

Norm references / Approvals

UL-AWM-Style 21098
CSA AWM IA/B; IIA/B FT 1
For travel distances up to 10 m.
For use in power chains: Please comply with the assembly guidelines listed in Appendix T3
UL File No. E63634

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Product features

Oil-resistant
Low-adhesive surface
Flame-retardant according to IEC 60332-1-2 & CSA FT1
In damp or wet interiors
Designed for 2 up to 8 million bending/unbending cycles in power chain applications.

Remark

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100kg. 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).

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

Technical Data

Core identification code:	Black with white numbers acc. to VDE 0293-1
Classification:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Specific insulation resistance:	> 20 GOhm x cm
Conductor stranding:	Extra-fine wire acc. to VDE 0295, class 6/ IEC 60228 class 6
Minimum bending radius:	For flexible use: 7.5 x outer diameter Fixed installation: 4 x outer diameter
Nominal voltage:	IEC: 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 +90°C Fixed installation: -40°C to +90°C

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Part number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
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	10.0	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	56.0	124
1027301	4 G 1,0	9.8	70.2	155
1027293	5 G 1,0	10.6	84.0	182
1027294	7 G 1,0	12.3	108.0	237
1027295	12 G 1,0	14.7	178.0	352
1027302	18 G 1,0	17.3	255.0	497
1027296	25 G 1,0	20.5	352.0	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	13.0	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	12.4	157.5	275
1027504	4 G 4	14.0	218.1	365

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Part number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
1027507	7 G 4	18.3	373.2	629
1027604	4 G 6	16.1	304.7	500
1027624	4 G 16	27.1	803.6	1357
1027634	4 G 25	31.3	1180.4	1879
1027644	4 G 35	34.3	1593.7	2360