

**Power chain applications**

Various applications, approved



**ÖLFLEX® FD 891**

PVC-insulated, numbered, PVC sheath, approved



**Info**

- Core Line for ordinary duty in power chain applications

**Technical data**

- Classification**  
ETIM 5.0 Class-ID: EC000104  
ETIM 5.0 Class-Description: Control cable
- Core identification code**  
Black with white numbers acc. to VDE 0293-1
- Specific insulation resistance**  
> 20 GOhm x cm
- 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: 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

**Benefits**

- Multi-standard = fewer part varieties = cost savings
- Also suitable for mobile outdoor use

**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

**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/un-bending cycles in power chain applications.

**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 Nr. E63634

**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
- PVC outer sheath, black (RAL 9005)

Article number	Number of cores and mm² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
1026012	12 G 0.5	10.8	57.6	162
1026103	3 G 0.75	6.6	21.6	63
1026104	4 G 0.75	7.3	28.8	75
1026105	5 G 0.75	8.0	36.0	90
1026107	7 G 0.75	9.6	50.4	132
1026112	12 G 0.75	11.6	86.5	201
1026118	18 G 0.75	13.9	129.6	300
1026125	25 G 0.75	16.6	180.0	415
1026127	3 G 1.0	7.1	28.8	65
1026129	4 G 1.0	7.8	39.0	82
1026130	5 G 1.0	8.8	48.0	105
1026128	7 G 1.0	10.5	67.2	149
1026131	12 G 1.0	12.5	116.0	225
1026132	18 G 1.0	15.0	173.0	331
1026133	25 G 1.0	17.9	240.0	484
1026303	3 G 1.5	7.7	43.2	93
1026304	4 G 1.5	8.8	57.6	122
1026305	5 G 1.5	9.6	72.0	147
1026307	7 G 1.5	11.6	100.8	219
1026312	12 G 1.5	13.9	172.8	322
1026318	18 G 1.5	16.9	259.2	478
1026325	25 G 1.5	20.1	360.0	670
1026334	34 G 1.5	23.6	489.6	897
1026403	3 G 2.5	8.8	72.0	129
1026404	4 G 2.5	9.8	96.0	167
1026405	5 G 2.5	11.0	120.0	212
1026407	7 G 2.5	13.4	168.0	304
1026412	12 G 2.5	15.8	288.0	452
1026504	4 G 4	11.8	153.6	263
1026505	5 G 4	13.2	192.0	325
1026507	7 G 4	16.1	268.8	469
1026604	4 G 6	13.7	230.4	368
1026614	4 G 10	17.9	384.0	588
1026624	4 G 16	24.1	614.4	1031
1026634	4 G 25	27.9	960.0	1530
1026644	4 G 35	31.1	1,344.0	1959

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](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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**Accessories**

- SILVYN® CHAIN cable protection and guiding systems