

Power chain applications

Wide-range use

# ÖLFLEX® FD CLASSIC 810

PVC insulated, numbered, PVC sheath



**Info**

- Bestseller among the FD- power chain cables
- Well-proven, reliable

**Application range**

- In power chains or moving machine parts
- Use in measuring, control and regulating circuits
- Power circuits for electrical equipment in automation engineering
- Assembly lines, production lines, in all kinds of machines
- Mechanical and plant engineering and construction

**Product features**

- Low adhesive surface
- Flame-retardant acc. to IEC 60332-1-2
- In damp and wet rooms
- Designed for up to 5 million bending change cycles in the power chain
- Outdoor use only with UV protection and in accordance with the temperature range.

**Approvals (Norm references)**



- For travel distances up to 10m.
- Usage in Power Chains: Please comply with the assembly guidelines Table T3

**Product Make-up**

- Extra fine strands of plain copper wires
- Core insulation: PVC
- Cores twisted in layers with short lay lengths
- Nonwoven wrapping
- PVC outer sheath, grey (RAL 7001)

**Technical data**

**Core identification code**  
black with white numbers acc. to VDE 0293

**Based on**  
Core in accordance with VDE 0245/0281  
Sheath in accordance with VDE 0245/0281

**Specific insulation resistance**  
> 20 GOhm x cm

**Conductor stranding**  
Extra fine wire in acc. to VDE 0295 Cl. 6 / IEC 60228 Cl. 6

**Minimum bending radius**  
For flexible applications: 7.5 x outside diameter  
Static:  
4 x cable diameter

**Rated voltage**  
U0/U:  
300/500 V

**Test voltage**  
4000 V

**Protective conductor**  
G = with protective conductor GN/YE  
X = without protective conductor

**Range of temperature**  
Flexing: 0 °C to +70 °C  
fixed installation: -40°C to +70 °C

Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
<b>ÖLFLEX® FD CLASSIC 810</b>				
0026100	2 X 0.5	5.8	10.0	40
0026101	3 G 0.5	6.2	15.0	48
0026102	4 G 0.5	6.8	19.2	58
0026103	5 G 0.5	7.3	24.0	67
0026104	7 G 0.5	8.5	34.0	88
0026105	12 G 0.5	10.0	58.0	136
0026106	18 G 0.5	12.0	86.4	195
0026107	25 G 0.5	14.9	120.0	274
0026108	30 G 0.5	14.9	144.0	312
0026109	34 G 0.5	16.3	164.0	359
0026110	50 G 0.5	19.2	240.0	515
0026119	2 X 0.75	6.2	15.0	49
0026120	3 G 0.75	6.7	22.0	60
0026121	4 G 0.75	7.3	29.0	73
0026122	5 G 0.75	7.9	37.0	86
0026123	7 G 0.75	9.4	51.0	117
0026124	12 G 0.75	11.2	87.0	181
0026125	16 G 0.75	12.6	116.0	234
0026126	18 G 0.75	13.3	130.0	259
0026127	25 G 0.75	15.9	181.0	363
0026130	2 X 1	6.6	19.0	58
0026131	3 G 1	7.1	29.0	72
0026132	4 G 1	7.8	39.0	88
0026133	5 G 1	8.5	48.0	104
0026134	7 G 1	10.1	67.0	142
0026135	12 G 1	12.0	115.0	221
0026136	14 G 1	12.9	134.4	258
0026137	16 G 1	13.6	153.0	287
0026138	18 G 1	14.5	173.0	324
0026139	25 G 1	17.8	240.0	445
0026140	26 G 1	17.8	249.6	459

Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
0026141	34 G 1	19.6	326.4	595
0026142	41 G 1	21.2	394.0	712
0026143	50 G 1	22.9	480.0	854
0026144	65 G 1	26.2	624.0	1,097
0026149	2 X 1.5	7.3	29.0	74
0026150	3 G 1.5	7.9	43.2	93
0026151	4 G 1.5	8.6	58.0	114
0026152	5 G 1.5	9.6	72.0	139
0026153	7 G 1.5	11.5	101.0	189
0026154	12 G 1.5	13.5	173.0	295
0026156	18 G 1.5	16.3	259.0	429
0026157	25 G 1.5	20.0	360.0	597
0026158	26 G 1.5	20.0	374.4	615
0026159	34 G 1.5	21.7	489.6	783
0026160	41 G 1.5	23.6	613.0	936
0026161	42 G 1.5	23.6	629.0	954
0026162	50 G 1.5	25.6	720.0	1,134
0026170	3 G 2.5	9.5	72.0	145
0026171	4 G 2.5	10.5	96.0	179
0026172	5 G 2.5	11.8	120.0	218
0026173	7 G 2.5	14.2	168.0	303
0026174	12 G 2.5	16.7	288.0	473
0026175	14 G 2.5	17.9	336.0	548
0026180	3 G 4	11.2	120.0	214
0026181	4 G 4	12.3	160.0	266
0026182	5 G 4	13.7	200.0	325
0026183	4 G 6	14.5	223.0	396
0026184	5 G 6	16.2	288.0	484
0026185	4 G 10	18.3	384.0	644
0026186	5 G 10	20.3	480.0	785
0026187	4 G 16	21.2	615.0	922
0026188	5 G 16	23.7	768.0	1,133

Copper price basis: EUR 150 / 100 kg

Our standard lengths, please visit: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum

Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

**Comparable products**

- ÖLFLEX® FD CLASSIC 810 P see page 120
- ÖLFLEX® FD 820 H see page 118

**Accessories**

- SILVYN® CHAIN Cable protection and guiding systems