

ÖLFLEX® CLASSIC FD 810 CP

Highly flexible, shielded control cable with PVC insulation, inner sheath and abrasion- and oil-resistant PUR sheath

ÖLFLEX® CLASSIC FD 810 CP - power and control cable for use in power chains in harsh environmental conditions in EMC critical areas.

Info

Core Line for average duty power chain applications

Good oil resistance

EMC-compliant copper shielding



UV-resistant



Interference signals



Power chain



Oil-resistant

Benefits

Tried-and-tested and reliable

Various applications

Durable under harsh conditions thanks to robust PUR sheath material

Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media

Additional robustness thanks to inner sheath

Copper braiding complies with EMC requirements and screens the cable against electromagnetic interference

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Application range

In power chains or mobile machine parts
 Particularly in wet areas of machine tools and transfer lines
 Power circuits for electrical equipment used in automation engineering
 Suitable for use in measuring, control and regulating circuits
 In dry, damp or wet interiors with normal mechanical stress conditions

Product features

Designed for 5 million alternating bending cycles and travel distances up to 10 metres
 Flame-retardant (IEC 60332.1.2)
 High oil resistance
 Abrasion-resistant and notch-resistant
 EMC-compliant
 Low-adhesive surface

Norm references / approvals

Core based on VDE 0245/0285
 Sheath based on VDE 0245/0285
 For use in power chains: Please comply with assembly guideline appendix T3

Design

Extra-fine wire strand made of bare copper wires (class 6)
 Core insulation: PVC
 Cores twisted in short lay lengths
 Fleece wrapping
 PVC inner sheath
 Tin-plated copper braiding
 Polyurethane sheath, grey (RAL 7001)

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
Conductor design:	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:	U ₀ /U: 300/500 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 Fixed installation: -40°C to +80°C
Alternating bending cycles:	5 million cycles

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PRODUCT INFORMATION

Article number	Number of cores and mm² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CLASSIC FD 810 CP				
0026400	2 X 0.5	6.9	33	70
0026401	3 G 0.5	7.3	39	80
0026402	4 G 0.5	7.9	46	94
0026403	5 G 0.5	8.4	54	106
0026404	7 G 0.5	9.8	70	138
0026405	12 G 0.5	11.3	100	194
0026419	2 X 0.75	7.3	39	81
0026420	3 G 0.75	7.8	48	95
0026421	4 G 0.75	8.4	59	111
0026422	5 G 0.75	9	69	128
0026423	7 G 0.75	10.7	90	171
0026424	12 G 0.75	12.4	129	244
0026425	16 G 0.75	14.2	186	328
0026426	18 G 0.75	14.9	205	356
0026427	25 G 0.75	17.4	271	479
0026430	2 X 1	7.7	46	93
0026431	3 G 1	8.2	57	109
0026432	4 G 1	8.9	70	129
0026433	5 G 1	9.8	81	154
0026434	7 G 1	11.4	110	200
0026435	12 G 1	13.4	182	304
0026438	18 G 1	16.1	254	429
0026439	25 G 1	18.8	365	593
0026449	2 X 1.5	8.4	58	112
0026450	3 G 1.5	9	75	133
0026451	4 G 1.5	9.9	91	163
0026452	5 G 1.5	10.9	112	193
0026453	7 G 1.5	12.7	145	252
0026454	12 G 1.5	15.1	247	391
0026456	18 G 1.5	17.8	348	542
0026457	25 G 1.5	21.2	498	767
0026470	3 G 2.5	10.8	119	199
0026471	4 G 2.5	11.8	161	238

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Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
0026472	5 G 2.5	13.2	194	297
0026473	7 G 2.5	15.8	262	403
0026474	12 G 2.5	18.2	410	589
0026475	14 G 2.5	19.8	490	702
0026481	4 G 4	13.7	238	349
0026483	4 G 6	16.1	318	499
0026484	5 G 6	17.7	410	596
0026485	4 G 10	20.2	521	842
0026487	4 G 16	23.6	780	1173