

ÖLFLEX® FD CLASSIC 810/810 CY

Continuous Flex Control Cable with PVC Jacket



ÖLFLEX® FD CLASSIC 810 is a flexible multi-conductor cable designed for continuous flex applications. It is specially designed to optimize flex life and provides excellent resistance to minerals oils, synthetic oils, and water-based coolants. ÖLFLEX® FD CLASSIC 810 CY is a shielded version available with an overall tinned copper braid. This is recommended when electrical interference needs to be suppressed.

Recommended Applications

Cable tracks; power chains; gantry robots; pick and place units; conveyor systems; machine tools; continuous flexing applications

Unshielded Construction

Conductors: Finely stranded bare copper

Insulation: Specially blended PVC; dry lubricant; non-woven wrapping over outer layer

Jacket: PVC; gray

Shielded Construction

Conductors: Finely stranded bare copper

Insulation: Specially blended PVC; dry lubricant; non-woven wrapping over outer layer

Inner Jacket: PVC

Shielding: Tinned copper braid (85% coverage)

Jacket: PVC; gray

Application Advantage

- European version with CE approvals
- Number-coded conductors for easier installation

Approvals



Cable Attributes, see page 659

OR-01	FR-02	CF-02	MP-01
OIL	FLAME	MOTION	MECHANICAL

Similar Cables

- ÖLFLEX® FD 890/890 CY
- ÖLFLEX® CHAIN 809/809 CY

Complete the Installation

	SKINTOP® Strain Relief page 502		SKINTOP® MS-SC: page 528
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Technical Data

Minimum Bend Radius:
- for continuous flexing: 7.5 x cable diameter

Temperature Range:
- for continuous flexing: 0°C to +70°C
- for stationary use: -40°C to +70°C

Nominal Voltage: 300/500V

Test Voltage: 4000V

Conductor Stranding: Class 6 super fine wire

Color Code: Black with white numbers, plus green/yellow ground

Approvals: CE & RoHS
Based on VDE 0245/0281

Photographs are not to scale and are not true representations of the products in question. For current information go to our website. If not otherwise specified, all values relating to the product are nominal values.

ÖLFLEX® FD CLASSIC 810

Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (inches) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® Non-Metallic PG Thread	Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (inches) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® Non-Metallic PG Thread
20 AWG (0.50 mm²)						16 AWG (1.50 mm²)					
0026100*	2	0.209 5.3	7	27	S1107	0026149*	2	0.268 6.8	19	50	S1109
0026101	3	0.224 5.7	10	32	S1107	0026150	3	0.291 7.4	29	62	S1111
0026102	4	0.248 6.3	13	39	S1109	0026151	4	0.319 8.1	39	77	S1111
0026103	5	0.268 6.8	16	45	S1109	0026152	5	0.358 9.1	48	93	S1111
0026104	7	0.315 8.0	23	59	S1111	0026153	7	0.429 10.9	68	127	S1113
0026105	12	0.374 9.5	39	91	S1111	0026154	12	0.508 12.9	116	198	S1116
0026106	18	0.449 11.4	58	131	S1113	0026156	18	0.614 15.6	174	288	S1121
0026107	25	0.539 13.7	81	184	S1121	0026157	25	0.733 18.6	242	401	S1129
0026109	34	0.614 15.6	110	241	S1121	0026159	34	0.831 21.1	329	526	S1129
0026110	50	0.728 18.5	161	346	S1129	14 AWG (2.50 mm²)					
19 AWG (0.75 mm²)						12 AWG (4 mm²)					
0026119*	2	0.224 5.7	10	33	S1107	0026170	3	0.354 9.0	48	97	S1111
0026120	3	0.244 6.2	15	40	S1107	0026171	4	0.394 10.0	65	120	S1113
0026121	4	0.268 6.8	19	49	S1109	0026172	5	0.441 11.2	81	146	S1113
0026122	5	0.291 7.4	25	58	S1111	0026173	7	0.535 13.6	113	204	S1121
0026123	7	0.350 8.9	34	79	S1111	0026175	14	0.677 17.2	226	368	S1121
0026124	12	0.417 10.6	58	122	S1113	10 AWG (6 mm²)					
0026125	16	0.472 12.0	78	157	S1116	0026180	3	0.417 10.6	81	144	S1113
0026126	18	0.500 12.7	87	174	S1116	0026181	4	0.461 11.7	108	179	S1116
0026127	25	0.598 15.2	122	244	S1121	8 AWG (10 mm²)					
18 AWG (1.00 mm²)						6 AWG (16 mm²)					
0026130*	2	0.240 6.1	13	39	S1107	0026185	4	0.693 17.6	258	433	S1129
0026131	3	0.260 6.6	19	48	S1109	0026186	5	0.772 19.6	323	528	S1129
0026132	4	0.287 7.3	26	59	S1111	4 AWG (25 mm²)					
0026133	5	0.315 8.0	32	70	S1111	0026187	4	0.827 21.0	413	620	S1129
0026134	7	0.378 9.6	45	95	S1113						
0026135	12	0.449 11.4	77	149	S1113						
0026138	18	0.547 13.9	116	218	S1121						
0026139	25	0.646 16.4	161	299	S1121						
0026142	41	0.811 20.6	265	478	S1129						
0026143	50	0.878 22.3	323	574	S1129						

* 2c cable does not include ground.

ÖLFLEX® FD CLASSIC 810 CY

Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (inches) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread	Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (inches) (mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
20 AWG (0.50 mm²)						16 AWG (1.50 mm²)					
0026200*	2	0.272 6.9	22	50	53112210	0026249*	2	0.331 8.4	39	79	53112220
0026201	3	0.287 7.3	26	56	53112220	0026250	3	0.354 9.0	50	93	53112220
0026202	4	0.311 7.9	31	66	53112220	0026251	4	0.390 9.9	61	114	53112230
0026203	5	0.331 8.4	36	74	53112220	0026252	5	0.429 10.9	75	135	53112230
0026204	7	0.386 9.8	47	96	53112230	0026253	7	0.500 12.7	97	176	53112240
0026205	12	0.445 11.3	67	135	53112240	0026254	12	0.594 15.1	166	271	53112250
0026206	18	0.528 13.4	103	193	53112240	0026256	18	0.701 17.8	234	376	53112260
0026207	25	0.626 15.9	136	265	53112250	0026257	25	0.835 21.2	335	533	53112260
19 AWG (0.75 mm²)						14 AWG (2.50 mm²)					
0026219*	2	0.287 7.3	26	57	53112220	0026259	34	0.941 23.9	470	675	53112260
0026220	3	0.307 7.8	32	67	53112220	12 AWG (4 mm²)					
0026221	4	0.331 8.4	40	78	53112220	0026270*	2	0.425 10.8	80	139	53112230
0026222	5	0.354 9.0	46	89	53112220	0026271	4	0.465 11.8	108	166	53112240
0026223	7	0.421 10.7	60	120	53112230	0026272	5	0.520 13.2	130	206	53112240
0026224	12	0.488 12.4	87	170	53112240	0026273	7	0.622 15.8	176	281	53112250
0026226	18	0.587 14.9	138	247	53112250	10 AWG (6 mm²)					
0026227	25	0.685 17.4	182	333	53112260	0026281	4	0.539 13.7	160	242	53112250
18 AWG (1.00 mm²)						8 AWG (10 mm²)					
0026230*	2	0.303 7.7	31	65	53112220	0026282	5	0.602 15.3	188	293	53112250
0026231	3	0.323 8.2	38	77	53112220	6 AWG (16 mm²)					
0026232	4	0.350 8.9	47	90	53112220	0026283	4	0.634 16.1	214	345	53112250
0026233	5	0.386 9.8	54	107	53112230	4 AWG (25 mm²)					
0026234	7	0.449 11.4	74	139	53112240	0026285	4	0.795 20.2	350	554	53112260
0026235	12	0.528 13.4	122	211	53112240	2 AWG (33 mm²)					
0026238	18	0.634 16.1	171	298	53112250	0026287	4	0.929 23.6	524	811	53112260
0026239	25	0.740 18.8	245	411	53112260						
0026241	34	0.846 21.5	311	529	53112260						
0026242	41	0.913 23.2	364	617	53112260						

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Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available, please see our SKINTOP® Section. Photographs are not to scale and are not true representations of the products in question. For current information go to our website. If not otherwise specified, all values relating to the product are nominal values.