

# ÖLFLEX® CLASSIC FD 810/810 CY

Continuous Flex Control Cable with PVC Jacket



ÖLFLEX® CLASSIC FD 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® CLASSIC FD 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

## Approvals



## Unshielded Construction

**Conductors:** Finely stranded bare copper

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

**Jacket:** PVC; gray

## Shielded Construction

**Conductors:** Finely stranded bare copper

**Insulation:** 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

Cable Attributes		page 640	
OIL	OR-01	FLAME	FR-02
MOTION	CF-02	MECH.	MP-01

Complete the Installation	
SKINTOP® Strain Relief	page 488
EPIC® Connectors	page 280

ÖLFLEX® CONNECT Solution	
	ÖLFLEX® CONNECT CHAIN page 609

## 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

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

ÖLFLEX® CLASSIC FD 810

Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (in) (mm)		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® Non-Metallic PG Thread	Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (in) (mm)		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® Non-Metallic PG Thread
<b>20 AWG (0.50 mm<sup>2</sup>)</b>							<b>16 AWG (1.50 mm<sup>2</sup>)</b>						
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	<b>14 AWG (2.50 mm<sup>2</sup>)</b>						
<b>19 AWG (0.75 mm<sup>2</sup>)</b>							<b>12 AWG (4 mm<sup>2</sup>)</b>						
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	<b>10 AWG (6 mm<sup>2</sup>)</b>						
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	<b>8 AWG (10 mm<sup>2</sup>)</b>						
<b>18 AWG (1.00 mm<sup>2</sup>)</b>							<b>6 AWG (16 mm<sup>2</sup>)</b>						
0026130*	2	0.240	6.1	13	39	S1107	0026183	4	0.547	13.9	150	266	S1121
0026131	3	0.260	6.6	19	48	S1109	0026185	4	0.693	17.6	258	433	S1129
0026132	4	0.287	7.3	26	59	S1111	0026186	5	0.772	19.6	323	528	S1129
0026133	5	0.315	8.0	32	70	S1111	<b>6 AWG (16 mm<sup>2</sup>)</b>						
0026134	7	0.378	9.6	45	95	S1113	0026187	4	0.827	21.0	413	620	S1129
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

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Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (in) (mm)		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread	Part Number	Number of Conductors (incl. ground)	Nominal Outer Diameter (in) (mm)		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
<b>20 AWG (0.50 mm<sup>2</sup>)</b>							<b>16 AWG (1.50 mm<sup>2</sup>)</b>						
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
<b>19 AWG (0.75 mm<sup>2</sup>)</b>							<b>14 AWG (2.50 mm<sup>2</sup>)</b>						
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	<b>12 AWG (4 mm<sup>2</sup>)</b>						
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	<b>10 AWG (6 mm<sup>2</sup>)</b>						
0026227	25	0.685	17.4	182	333	53112260	0026281	4	0.539	13.7	160	242	53112250
<b>18 AWG (1.00 mm<sup>2</sup>)</b>							<b>8 AWG (10 mm<sup>2</sup>)</b>						
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	<b>6 AWG (16 mm<sup>2</sup>)</b>						
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	0026285	4	0.795	20.2	350	554	53112260
0026234	7	0.449	11.4	74	139	53112240	<b>6 AWG (16 mm<sup>2</sup>)</b>						
0026235	12	0.528	13.4	122	211	53112240	0026287	4	0.929	23.6	524	811	53112260
0026238	18	0.634	16.1	171	298	53112250							
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. If not otherwise specified, all values relating to the product are nominal values. For current information go to our website.