

ÖLFLEX® CLASSIC 100/100 CY

Flexible Power and Control Cable; Color-Coded; Unshielded & Shielded



ÖLFLEX® CLASSIC 100 is a color-coded multi-conductor power and control cable for use in all electrical equipment in dry, damp, or wet conditions. It is a European-style cable, conforms to CE, and is available shielded or unshielded.

Unshielded Construction

- Conductors:** Finely stranded bare copper
- Insulation:** PVC
- Jacket:** PVC; gray

Shielded Construction

- Conductors:** Finely stranded bare copper
- Insulation:** PVC
- Shielding:** Gray PVC inner jacket; tinned copper braid (85% coverage)
- Jacket:** PVC; transparent

Recommended Applications

Control systems; assembly lines; control panels; data processing equipment; European machinery

Approvals



Application Advantage

- European color code for power
- Conforms to CE standards
- Available with inner jacket and tinned copper braid for EMI & RFI protection
- Pressure-extruded jacket for improved flexibility

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

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

Technical Data

Minimum Bend Radius:	- for installation: 4 x cable diameter	Test Voltage:	4000V
	- shielded: 6 x cable diameter	Conductor Stranding:	Class 5 fine wire
Temperature Range:	- for flexible use: -5°C to +70°C	Color Code:	VDE 0293-308: Chart 6, page 673
	- for stationary use: -40°C to +80°C	Approvals:	Based on VDE specifications CE & RoHS
Nominal Voltage:	- unshielded:		
	- ≤ 16 AWG: 300/500V		
	- ≥ 14 AWG: 450/750V		
	- shielded:		
	- ≤ 18 AWG: 300/500V		
	- ≥ 16 AWG: 450/750V		

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.

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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® 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
20 AWG (0.50 mm²)						8 AWG (10 mm²)					
00100004*	2	0.189 4.8	6	24	S1107	0010301	3	0.626 15.9	194	342	S1121
00100014	3	0.201 5.1	10	28	S1107	00101093	4	0.693 17.6	258	437	S1129
00100024	4	0.224 5.7	13	36	S1107	00101103	5	0.776 19.7	323	532	S1129
00100034	5	0.244 6.2	16	42	S1107	6 AWG (16 mm²)					
18 AWG (1.00 mm²)						0010302	3	0.720 18.3	310	489	S1129
00100414*	2	0.224 5.7	13	36	S1107	00101093	4	0.803 20.4	413	730	S1129
00100424	3	0.236 6.0	19	44	S1107	00101133	5	0.898 22.8	516	751	S1129
00100434	4	0.256 6.5	26	53	S1109	4 AWG (25 mm²)					
00100444	5	0.280 7.1	32	63	S1111	0010303	3	0.906 23.0	484	932	S1129
16 AWG (1.50 mm²)						00101153	4	1.000 25.4	645	1063	S1136
00100634*	2	0.248 6.3	19	46	S1109	00101163	5	1.122 28.5	806	1190	S1136
00100644	3	0.264 6.7	29	56	S1109	2 AWG (35 mm²)					
00100654	4	0.283 7.2	39	70	S1111	0010304	3	1.008 25.6	677	1187	S1136
00100664	5	0.319 8.1	48	86	S1111	00101173	4	1.122 28.5	903	1416	S1136
14 AWG (2.50 mm²)						00101183	5	1.256 31.9	1129	1771	S1248
0010086*	2	0.350 8.9	32	86	S1111	1 AWG (50 mm²)					
0010087	3	0.378 9.6	48	109	S1113	0010305	3	1.220 31.0	968	1718	S1248
00100883	4	0.421 10.7	65	136	S1113	00101193	4	1.358 34.5	1290	1978	S1248
00100893	5	0.465 11.8	81	163	S1116	2/0 AWG (70 mm²)					
12 AWG (4 mm²)						0010306	3	1.390 35.3	1355	2139	S1142
0010100*	2	0.417 10.6	52	126	S1113	00101203	4	1.551 39.4	1806	2750	S1148
0010210	3	0.449 11.4	77	164	S1113	3/0 AWG (95 mm²)					
00101013	4	0.500 12.7	103	200	S1116	0010307	3	1.626 41.3	1839	3142	S1148
00101023	5	0.547 13.9	129	239	S1121	00101213	4	1.803 45.8	2451	3534	53112080*
10 AWG (6 mm²)						4/0 AWG (120 mm²)					
0010105	3	0.496 12.6	116	214	S1116	0010308	3	1.874 47.6	2322	3776	53112080*
00101063	4	0.543 13.8	155	265	S1121	00103093	4	2.091 53.1	3096	4694	53112080*
00101073	5	0.614 15.6	194	329	S1121	350 KCMIL (185 mm²)					
						00103123	4	2.472 62.8	4774	5578	53112510*

* 2c cable does not include ground

† SKINTOP® MS: nickel-plated brass with metric thread.

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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
20 AWG (0.50 mm²)						8 AWG (10 mm²)					
0035001*	2	0.276 7.0	28	50	53112210	00350213	4	0.831 21.1	375	566	53112260
0035002	3	0.287 7.3	31	56	53112220	00352903	5	0.909 23.1	480	675	53112260
00350033	4	0.311 7.9	37	67	53112220	6 AWG (16 mm²)					
00352013	5	0.331 8.4	44	75	53112220	00350223	4	0.941 23.9	540	782	53112260
18 AWG (1.00 mm²)						00350153	5	1.055 26.8	706	1216	53112270
0035220*	2	0.311 7.9	38	66	53112220	4 AWG (25 mm²)					
0035221	3	0.323 8.2	44	75	53112220	00350233	4	1.157 29.4	866	1279	53112270
00352223	4	0.343 8.7	52	87	53112220	00350243	5	1.283 32.6	972	1595	53112670†
00352233	5	0.374 9.5	60	103	53112230	2 AWG (35 mm²)					
16 AWG (1.50 mm²)						00350253	4	1.276 32.4	1138	1673	53112670†
0035000*	2	0.390 9.9	44	89	53112230	00350263	5	1.417 36.0	1327	1862	53112680‡
0035458	3	0.406 10.3	53	114	53112230	1 AWG (50 mm²)					
00354593	4	0.445 11.3	65	137	53112240	00350273	4	1.528 38.8	1574	2259	53112680‡
00354603	5	0.496 12.6	78	165	53112240	2/0 AWG (70 mm²)					
14 AWG (2.50 mm²)						00350283	4	1.720 43.7	2039	2499	53112680‡
0035011	3	0.465 11.8	98	142	53112240	3/0 AWG (95 mm²)					
00350173	4	0.531 13.5	112	208	53112240	00350293	4	1.984 50.4	2725	3931	53112681‡
00350123	5	0.575 14.6	134	219	53112250	4/0 AWG (120 mm²)					
12 AWG (4 mm²)						00354303	4	2.236 56.8	3511	5046	53112501‡
00350183	4	0.594 15.1	159	271	53112250	300 KCMIL (150 mm²)					
00350133	5	0.650 16.5	220	321	53112250	00354313	4	2.449 62.2	4233	5242	53112500‡
10 AWG (6 mm²)						350 KCMIL (185 mm²)					
00350193	4	0.654 16.6	214	350	53112250	00354323	4	2.669 67.8	5210	6630	53112503‡
00350143	5	0.717 18.2	296	419	53112260						

* 2c cable does not include ground

† SKINTOP® MS-SC with metric thread.

‡ SKINTOP® BRUSH with metric thread.

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.