

ÖLFLEX® CLASSIC 100/100 CY

Flexible color-coded power & control cable



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.

Recommended applications

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

Approvals



Cable attributes		page 648	
OIL	OR-01	FLAME	FR-02
MOTION	FL-01	MECH.	MP-01

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

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

Complete the installation



SKINTOP®
strain relief
page 492



EPIC®
connectors
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Technical data

Minimum bend radius:

- for installation: 4 x cable diameter
- shielded: 6 x cable diameter

Temperature range:

- for flexible use: -5°C to +70°C
- for stationary use: -40°C to +80°C

Nominal voltage:

- unshielded:
 - ≤ 16 AWG: 300/500V
 - ≥ 14 AWG: 450/750V
- shielded:
 - ≤ 18 AWG: 300/500V
 - ≥ 16 AWG: 450/750V

Test voltage:

4000V

Conductor stranding:

Class 5 fine wire

Color code:

VDE 0293-308: chart 6, page 681

Approvals:

based on VDE specifications
CE & RoHS

ÖLFLEX® CLASSIC 100

Part number	Number of conductors incl. ground*	Nominal outer diameter in mm	Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
20 AWG (0.5 mm²)					
00100004	2	0.189	4.8	6	24 S1107
00100014	3	0.201	5.1	10	28 S1107
00100024	4	0.224	5.7	13	36 S1107
00100034	5	0.244	6.2	16	42 S1107
18 AWG (1 mm²)					
00100414	2	0.224	5.7	13	36 S1107
00100424	3	0.236	6.0	19	44 S1107
00100434	4	0.256	6.5	26	53 S1109
00100444	5	0.280	7.1	32	63 S1111
16 AWG (1.5 mm²)					
00100634	2	0.248	6.3	19	46 S1109
00100644	3	0.264	6.7	29	56 S1109
00100654	4	0.283	7.2	39	70 S1111
00100664	5	0.319	8.1	48	86 S1111
14 AWG (2.5 mm²)					
0010086	2	0.350	8.9	32	86 S1111
0010087	3	0.378	9.6	48	109 S1113
00100883	4	0.421	10.7	65	136 S1113
00100893	5	0.465	11.8	81	163 S1116
12 AWG (4 mm²)					
0010100	2	0.409	10.4	52	126 S1113
0010210	3	0.441	11.2	77	164 S1113
00101013	4	0.492	12.5	103	200 S1116
00101023	5	0.539	13.7	129	239 S1121
10 AWG (6 mm²)					
0010105	3	0.496	12.6	116	214 S1116
00101063	4	0.543	13.8	155	265 S1121
00101073	5	0.614	15.6	194	329 S1121

* 2c cable does not include ground
 ** SKINTOP® MS with metric thread

Part number	Number of conductors incl. ground*	Nominal outer diameter in mm	Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® SL PG thread
8 AWG (10 mm²)					
0010301	3	0.626	15.9	194	342 S1121
00101093	4	0.693	17.6	258	437 S1129
00101103	5	0.776	19.7	323	532 S1129
6 AWG (16 mm²)					
0010302	3	0.720	18.3	310	489 S1129
00101123	4	0.803	20.4	413	730 S1129
00101133	5	0.898	22.8	516	751 S1129
4 AWG (25 mm²)					
0010303	3	0.906	23.0	484	932 S1129
00101153	4	1.000	25.4	645	1063 S1136
00101163	5	1.122	28.5	806	1190 S1136
2 AWG (35 mm²)					
0010304	3	1.008	25.6	677	1187 S1136
00101173	4	1.122	28.5	903	1416 S1136
00101183	5	1.256	31.9	1129	1771 S1248
1 AWG (50 mm²)					
0010305	3	1.220	31.0	968	1718 S1248
00101193	4	1.358	34.5	1290	1978 S1248
2/0 AWG (70 mm²)					
0010306	3	1.390	35.3	1355	2139 S1142
00101203	4	1.551	39.4	1806	2750 S1148
3/0 AWG (95 mm²)					
0010307	3	1.626	41.3	1839	3142 S1148
00101213	4	1.803	45.8	2451	3534 53112080**
4/0 AWG (120 mm²)					
0010308	3	1.874	47.6	2322	3776 53112080**
00103093	4	2.091	53.1	3096	4694 53112080**
350 KCMIL (185 mm²)					
00103123	4	2.472	62.8	4774	5578 53112510**

ÖLFLEX® CLASSIC 100 CY

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 (0.5 mm²)					
0035001	2	0.276	7.0	28	50 53112210
0035002	3	0.287	7.3	31	56 53112220
00350033	4	0.311	7.9	37	67 53112220
00352013	5	0.331	8.4	44	75 53112220
18 AWG (1 mm²)					
0035220	2	0.311	7.9	38	66 53112220
0035221	3	0.323	8.2	44	75 53112220
00352223	4	0.343	8.7	52	87 53112220
00352233	5	0.374	9.5	60	103 53112230
16 AWG (1.5 mm²)					
0035000	2	0.390	9.9	44	89 53112230
0035458	3	0.406	10.3	53	114 53112230
00354593	4	0.445	11.3	65	137 53112240
00354603	5	0.496	12.6	78	165 53112240
14 AWG (2.5 mm²)					
0035011	3	0.465	11.8	98	142 53112240
00350173	4	0.531	13.5	112	208 53112240
00350123	5	0.575	14.6	134	219 53112250
12 AWG (4 mm²)					
00350183	4	0.594	15.1	159	271 53112250
00350133	5	0.650	16.5	220	321 53112250
10 AWG (6 mm²)					
00350193	4	0.654	16.6	214	350 53112250
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

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
8 AWG (10 mm²)					
00350213	4	0.831	21.1	375	566 53112260
00352903	5	0.909	23.1	480	675 53112260
6 AWG (16 mm²)					
00350223	4	0.941	23.9	540	782 53112260
00350153	5	1.055	26.8	706	1216 53112270
4 AWG (25 mm²)					
00350233	4	1.157	29.4	866	1279 53112270
00350243	5	1.283	32.6	972	1595 53112670*
2 AWG (35 mm²)					
00350253	4	1.276	32.4	1138	1673 53112670*
00350263	5	1.417	36.0	1327	1862 53112680**
1 AWG (50 mm²)					
00350273	4	1.528	38.8	1574	2259 53112680**
2/0 AWG (70 mm²)					
00350283	4	1.720	43.7	2039	2499 53112680**
3/0 AWG (95 mm²)					
00350293	4	1.984	50.4	2725	3931 53112681**
4/0 AWG (120 mm²)					
00354303	4	2.236	56.8	3511	5046 53112501**
300 KCMIL (150 mm²)					
00354313	4	2.449	62.2	4233	5242 53112500**
350 KCMIL (185 mm²)					
00354323	4	2.669	67.8	5210	6630 53112503**

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.