

OLFLEX® FD 891 P/ 891 CP

Highly Flexible, Heavy Duty, Continuous Flex,
Polyurethane Control Cable



OLFLEX® FD 891 P is a highly flexible, multi-conductor cable with a rugged, abrasion resistant polyurethane jacket designed for continuous flex applications. The polyurethane jacket is resistant to mineral oils, cutting fluids and heavy mechanical abuse. OLFLEX® FD 891 CP is a shielded version available with an overall tinned copper braid. This is recommended when electrical interference needs to be suppressed.

Application Advantage:

- North American UL/CSA and European market approvals
- Suitable for use in harsh industrial environmental conditions
- Unshielded version is DESINA® compliant

Recommended Applications:

Cable tracks, Gantry robots, Pick and place units, Conveyor systems, Machine tools, Automated handling equipment and other continuous flexing applications.

OLFLEX® FD 891 P Construction:










Finely stranded bare copper conductors; specially blended PVC insulation; dry lubricant; conductors cabled with non-wicking textile wrap over outer layer; specially formulated black polyurethane jacket.










OLFLEX® FD 891 CP Construction:

Finely stranded bare copper conductors; specially blended PVC insulation; dry lubricant; conductors cabled with non-wicking textile wrap; inner PVC jacket; tinned copper braid (85% coverage); specially formulated black polyurethane jacket.



Cable Attributes, See Page 653  Oil Resistance: OR-5  Motion Type: CF-01  Flame Resistance: FR-02  Mechanical Properties: MP-05		Availability:  Standard put-ups are 164ft, 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.	Complete the installation with:  SKINTOP® Strain Relief: Page 486  OLFLEX® Tubing: Page 546  EPIC® Connectors: Page 251  SKINTOP® MS-SC Page 486
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Technical Data:

 Minimum Bending Radius - for continuous flexing: 7.5 x cable diameter - with shield: 10 x cable diameter	 Conductor Stranding: Extra Fine Wire per VDE 0295, Class 6, IEC 60228 Cl.6
 Temperature Range: - for flexible use: -5°C to +80°C - for stationary use: -40°C to +80°C	 Color Code: Black with white numbers, plus green/yellow ground
 Nominal Voltage: UL/CSA: 600V CE: 300/500V	 Approvals: UL: AWM 20234 CSA: AWM II A/B FT 1 Additional: Based on VDE Specifications
 Test Voltage: 4000V	

OLFLEX® FD 891 P/ 891 CP

Highly Flexible Heavy Duty Continuous Flex,
Polyurethane Control Cable



OLFLEX FD® 891 P: Highly Flexible Heavy Duty Continuous Flex Polyurethane Control Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
21 AWG (28/34) 0.50 mm ²							14 AWG (140/34) 2.50 mm ²						
1028752	2	.268	6.8	6	31	46	1028325	25	.815	20.7	242	451	671
1028003	3	.287	7.3	10	38	56	1028334	34	.933	23.7	329	611	910
1028004	4	.311	7.9	13	46	69	1028350	50	1.102	28.0	484	865	1287
1028005	5	.339	8.6	16	56	83	1028360	60	1.177	29.9	581	1018	1515
1028007	7	.390	9.9	23	79	118	12 AWG (224/34) 4 mm ²						
1028012	12	.453	11.5	39	107	159	1028952	2	.350	8.9	32	69	102
1028018	18	.539	13.7	58	156	232	1028403	3	.378	9.6	48	90	134
1028025	25	.630	16.0	81	216	321	1028404	4	.421	10.7	65	116	173
1028034	34	.713	18.1	110	289	430	1028405	5	.461	11.7	81	146	217
1028050	50	.843	21.4	161	407	606	1028407	7	.543	13.8	113	210	312
1028060	60	.902	22.9	194	478	711	1028412	12	.642	16.3	194	309	460
19 AWG (42/34) 0.75 mm ²							10 AWG (192/32) 6 mm ²						
1028802	2	.280	7.1	10	35	52	1028604	4	.555	14.1	155	244	363
1028103	3	.299	7.6	15	44	66	1028605	5	.622	15.8	194	308	459
1028104	4	.327	8.3	19	55	82	8 AWG (320/32) 10 mm ²						
1028105	5	.354	9.0	24	68	101	1028614	4	.724	18.4	258	406	605
1028107	7	.413	10.5	34	95	142	1028615	5	.807	20.5	323	515	766
1028112	12	.476	12.1	58	132	196	6 AWG (512/32) 16 mm ²						
1028118	18	.563	14.3	87	189	282	1028624	4	.945	24.0	413	654	973
1028125	25	.673	17.1	121	271	404	1028625	5	1.063	27.0	516	834	1242
1028134	34	.764	19.4	165	363	541	4 AWG (800/32) 25 mm ²						
1028150	50	.909	23.1	242	519	772	1028634	4	1.118	28.4	645	966	1437
1028160	60	.972	24.7	290	609	907	1028635	5	1.256	31.9	806	1231	1832
16 AWG (84/34) 1.50 mm ²							2 AWG (1120/32) 35 mm ²						
1028902	2	.319	8.1	19	50	74	1028644	4	1.264	32.1	903	1285	1913
1028303	3	.343	8.7	29	66	98	1028655	5	1.406	35.7	1129	1633	2431
1028304	4	.378	9.6	39	84	125							
1028305	5	.413	10.5	48	104	155							
1028307	7	.484	12.3	68	148	221							
1028312	12	.563	14.3	116	214	318							
1028318	18	.685	17.4	174	325	484							

OLFLEX® FD 891 CP: Shielded Highly Flexible Heavy Duty Continuous Flex Polyurethane Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
21 AWG (28/34) 0.50 mm ²							14 AWG (140/34) 2.50 mm ²						
1029752	2	.331	8.4	23	62	92	1029334	34	1.051	26.7	446	847	1260
1029003	3	.350	8.9	26	71	105	1029350	50	1.236	31.4	632	1181	1757
1029004	4	.374	9.5	32	83	124	1029360	60	1.315	33.4	730	1354	2015
1029007	7	.465	11.8	54	132	197	12 AWG (224/34) 4 mm ²						
1029012	12	.524	13.3	77	170	253	1029952	2	.425	10.8	54	115	171
1029018	18	.618	15.7	108	249	370	1029403	3	.453	11.5	73	142	211
1029025	25	.717	18.2	137	333	495	1029404	4	.492	12.5	109	173	258
1029050	50	.953	24.2	259	610	908	1029405	5	.539	13.7	124	220	328
1029060	60	1.028	26.1	259	713	1061	1029407	7	.657	16.1	163	309	460
19 AWG (42/34) 0.75 mm ²							10 AWG (192/32) 6 mm ²						
1029103	3	.362	9.2	33	79	118	1029412	12	.736	18.7	271	433	645
1029104	4	.390	9.9	40	94	140	8 AWG (320/32) 10 mm ²						
1029105	5	.429	10.9	46	115	171	1029614	4	.831	21.1	337	433	644
1029107	7	.484	12.3	62	152	226	1029615	5	.913	23.2	410	698	1039
1029112	12	.563	14.3	102	217	323	6 AWG (512/32) 16 mm ²						
1029118	18	.654	16.6	137	292	434	1029624	4	1.071	27.2	540	902	1342
1029125	25	.776	19.7	198	415	618	1029625	5	1.201	30.5	656	1143	1701
1029134	34	.874	22.2	245	533	794	4 AWG (800/32) 25 mm ²						
1029150	50	1.028	26.1	373	747	1112	1029634	4	1.264	32.1	793	1303	1940
1029160	60	1.094	27.8	176	855	1273	1029635	5	1.386	35.2	958	1604	2387
16 AWG (84/34) 1.50 mm ²							2 AWG (1120/32) 35 mm ²						
1029902	2	.382	9.7	38	87	130	1029644	4	1.390	35.3	1071	1660	2470
1029303	3	.417	10.6	50	111	165	1029645	5	1.531	38.9	1317	2058	3063
1029304	4	.453	11.5	63	136	202							
1029305	5	.484	12.3	74	160	238							
1029307	7	.563	14.3	111	231	344							
1029312	12	.654	16.6	166	316	470							
1029318	18	.787	20.0	252	478	711							
1029325	25	.913	23.2	329	630	937							