

# OLFLEX® FD 891/ 891 CY

Highly Flexible Continuous Flex Control Cable



OLFLEX® FD 891 is a highly flexible, multi-conductor cable designed for continuous flex applications in the European and North American markets. It is specially designed to optimize flex life and provides excellent resistance to mineral oils, synthetic oils and water based coolants. OLFLEX® FD 891 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, Gantry robots, Pick and place units, Conveyor systems, Machine tools, Automated handling equipment and Other continuous flexing applications.

**Application Advantage:**

- Pressure extruded jacket for optimal seal with SKINTOP® Strain Relief or EPIC® Connectors
- Number coded black conductors for easier installation
- Meets global specifications for use worldwide

**OLFLEX® FD 891 Construction:**

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



**OLFLEX® FD 891 CY Construction:**

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



<b>Cable Attributes, See Page 653</b> Oil Resistance: OR-4 Flame Resistance: FR-02 Motion Type: CF-01 Mechanical Properties: MP-02		<b>Availability:</b> Standard put-ups are 164ft, 328ft, 820ft, 1640ft, and 3280ft. Bulk reels can be cut to length.	<b>Complete the installation with:</b> SKINTOP® Strain Relief: Page 486 OLFLEX® Tubing: Page 546 EPIC® Connectors: Page 251 SKINTOP® MS-SC Page 486
--	--	--	---

**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 +90°C - for stationary use: -40°C to +90°C	Color Code: Black with white numbers, plus green/yellow ground Optional: Other color codes available upon request
Nominal Voltage: UL/CSA: 600V CE: 300/500V	Approvals: UL: Style 2587 CSA: CSA-AWM I/II A/B FT 1 Additional: Based on VDE Specifications
Test Voltage: 4000V	

# OLFLEX® FD 891/ 891 CY

Highly Flexible Continuous Flex Control Cable



## OLFLEX® FD 891: Highly Flexible Continuous Flex 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 <sup>2</sup>							14 AWG (140/34) 2.50 mm <sup>2</sup>						
1026003	3	.264	6.7	10	35	52	1026325	25	.815	20.7	242	478	712
1026004	4	.291	7.4	13	45	67	1026334	34	.933	23.7	329	648	965
1026005	5	.315	8.0	16	55	82	1026403	3	.378	9.6	48	94	140
1026007	7	.378	9.6	23	81	121	1026404	4	.429	10.9	65	130	194
1026012	12	.449	11.4	39	114	170	1026405	5	.468	11.9	81	157	234
1026018	18	.535	13.6	58	172	256	1026407	7	.571	14.5	113	235	350
1026025	25	.642	16.3	81	240	357	1026412	12	.685	17.4	194	349	519
19 AWG (42/34) 0.75 mm <sup>2</sup>							12 AWG (224/34) 4 mm <sup>2</sup>						
1026103	3	.280	7.1	15	42	62	1026503	3	.441	11.2	77	137	204
1026104	4	.311	7.9	19	54	81	1026504	4	.496	12.6	103	183	273
1026105	5	.339	8.6	24	67	100	1026505	5	.555	14.1	129	234	348
1026107	7	.406	10.3	34	99	148	1026507	7	.673	17.1	181	339	505
1026112	12	.488	12.4	58	144	215	10 AWG (192/32) 6 mm <sup>2</sup>						
1026118	18	.583	14.8	87	210	313	1026604	4	.575	14.6	155	424	631
1026125	25	.697	17.7	121	302	449	8 AWG (320/32) 10 mm <sup>2</sup>						
16 AWG (84/34) 1.50 mm <sup>2</sup>							1026614						
1026303	3	.315	8.0	29	62	93	4	.724	18.4	258	538	800	
1026304	4	.358	9.1	39	84	125	6 AWG (512/32) 16 mm <sup>2</sup>						
1026305	5	.390	9.9	48	104	155	1026624	4	.933	23.7	413	693	1032
1026307	7	.469	11.9	68	153	228	4 AWG (800/32) 25 mm <sup>2</sup>						
1026312	12	.563	14.3	116	226	337	1026634	4	1.091	27.7	645	1006	1497
1026318	18	.685	17.4	174	345	513	2 AWG (1120/32) 35 mm <sup>2</sup>						
							1026644	4	1.291	32.8	903	1410	2098

## OLFLEX® FD 891 CY: Shielded Highly Flexible Continuous Flex 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 <sup>2</sup>							14 AWG (140/34) 2.50 mm <sup>2</sup>						
1027003	3	.346	8.8	26	67	100	1027325	25	.917	23.3	329	659	981
1027004	4	.354	9.0	32	81	121	1027334	34	1.059	26.9	446	888	1321
1027005	5	.378	9.6	37	95	142	12 AWG (224/34) 4 mm <sup>2</sup>						
1027007	7	.453	11.5	54	134	200	1027503	3	.512	13.0	106	199	296
1027012	12	.528	13.4	67	188	280	1027504	4	.583	14.8	147	271	404
1027018	18	.626	15.9	108	271	403	1027505	5	.646	16.4	179	335	498
1027025	25	.728	18.5	137	358	533	1027507	7	.768	19.5	251	482	717
19 AWG (42/34) 0.75 mm <sup>2</sup>							10 AWG (192/32) 6 mm <sup>2</sup>						
1027103	3	.343	8.7	33	77	115	1027604	4	.665	16.9	205	363	541
1027104	4	.374	9.5	40	95	141	8 AWG (320/32) 10 mm <sup>2</sup>						
1027105	5	.413	10.5	46	114	169	1027614	4	.843	21.4	337	592	881
1027107	7	.480	12.2	62	158	235	6 AWG (512/32) 16 mm <sup>2</sup>						
1027112	12	.575	14.6	102	232	346	1027624	4	1.059	26.9	540	944	1405
1027118	18	.673	17.1	137	316	470	4 AWG (800/32) 25 mm <sup>2</sup>						
1027125	25	.799	20.3	198	456	678	1027634	4	1.244	31.6	995	1338	1991
16 AWG (84/34) 1.50 mm <sup>2</sup>							2 AWG (1120/32) 35 mm <sup>2</sup>						
1027303	3	.386	9.8	50	106	158	1027644	4	1.425	36.2	1071	1792	2667
1027304	4	.433	11.0	63	135	201							
1027305	5	.465	11.8	68	153	227							
1027307	7	.551	14.0	111	234	349							
1027312	12	.654	16.6	166	329	489							
1027318	18	.787	20.0	252	497	740							