

OLFLEX® FD 890/ 890 CY

Super Flexible, Heavy Duty, Continuous Flex Control Cable



OLFLEX® FD 890 is a super flexible, heavy duty, multi-conductor cable designed for continuous flex applications. Superior stranding, specially formulated PVC insulation and jacket compounds optimize flex life and provide excellent resistance to mineral oils, synthetic oils and water based coolants. OLFLEX® FD 890 is rated 600V, 90°C with UL and CSA AWM approved.

Recommended Applications:

Gantry robots, Cable tracks, Pick and place units, Conveyor systems, Machine tools and Other continuous flexing applications.

Application Advantage:

- Over 15 years of time tested performance to the most rigorous of industrial plant continuous flex applications
- Meets UL Oil Res I/II for long service life, resistant to harsh environments
- Pressure extruded jacket for precision connectorization

OLFLEX® FD 890 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 890 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.



Cable Attributes, See Page 653



Oil Resistance:
OR-04



Flame
Resistance:
FR-02



Motion Type:
CF-02



Mechanical
Properties:
MP-02

Availability:



Standard put-ups are
100ft, 250ft, 500ft,
and 1,000ft. Bulk
reels can be cut to
length.

Complete the installation with:



SKINTOP®
Strain Relief:
Page 486



EPIC®
Connectors:
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OLFLEX®
Tubing:
Page 546



SKINTOP®
MS-SC
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Also available with blue and black conductors; minimum order required

Technical Data:



Minimum Bending Radius
- for continuous flexing: 7.5 x cable diameter
- with shield: 10 x cable diameter



Color Code: Red with numbered cores, plus green/yellow ground
Optional: Other color codes available upon request



Temperature Range:
- for flexible use: -5°C to +90°C
- for stationary use: -40°C to +90°C



Approvals: UL: - UL- AWM 2587 + 21098
- Passes Oil Res I/II + UL 758 80°C test
CSA: - CSA-AWM I/II A/B FT 1
- CSA C22.2 210.2
- Sec. 7.6.12.1, 8.8.8- Oil Resistance Tests
Additional: - Based on VDE Specifications



Nominal Voltage: UL/CSA: 600V
CE: 300/500V



Test Voltage: 3000V

* Passes Impact and Crush tests to UL 1277, excluding 20 AWG designs (Same requirement for Exposed Run)



Conductor Stranding: Super Fine Wire, better than VDE 0295, Class 6

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OLFLEX FD® 890: Super Flexible Heavy Duty 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
20 AWG (74/38) 0.50 mm ²							891607	7	.480	12.2	64	138	205
892003	3	.264	6.7	10	43	64	891612	12	.555	14.1	109	227	338
892004	4	.291	7.4	13	49	73	891618	18	.685	17.4	163	323	481
892005	5	.323	8.2	17	54	80	891625	25	.854	21.7	227	479	713
892007	7	.382	9.7	23	75	112	891634	34	.925	23.5	309	623	927
892012	12	.457	11.6	40	124	185	891650	50	1.094	27.8	454	880	1309
892018	18	.539	13.7	60	183	273	891660	60	1.190	30.2	544	1076	1602
892025	25	.677	17.2	83	265	395	14 AWG (320/38) 2.50 mm ²						
892034	34	.756	19.2	113	339	504	891404	4	.456	11.6	60	148	220
18 AWG (114/38) 0.75 mm ²							891407	7	.614	15.6	105	227	338
891803	3	.287	7.3	19	46	68	12 AWG (512/38) 4 mm ²						
891804	4	.327	8.3	25	60	89	891204	4	.531	13.5	100	208	310
891805	5	.354	9.0	31	74	110	891207	7	.740	18.8	176	335	499
891807	7	.429	10.9	44	102	152	10 AWG (343/34) 6 mm ²						
891812	12	.500	12.7	75	158	236	891004	4	.626	15.9	147	275	410
891815	15	.559	14.2	94	202	301	8 AWG (301/32) 10 mm ²						
891818	18	.614	15.5	113	234	348	890804	4	.744	18.9	245	481	716
891825	25	.763	19.4	156	336	501	6 AWG (483/32) 16 mm ²						
891834	34	.826	20.9	213	434	646	890604	4	.909	23.1	393	709	1055
16 AWG (190/38) 1.50 mm ²							4 AWG (768/32) 25 mm ²						
891603	3	.323	8.2	27	79	118	890404	4	1.059	26.9	541	1005	1496
891604	4	.358	9.1	36	99	148	2 AWG (1026/32) 35 mm ²						
891605	5	.393	9.9	45	124	185	890204	4	1.252	31.8	853	1240	1846

OLFLEX FD® 890 CY: Shielded Super Flexible Heavy Duty 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
20 AWG (74/38) 0.50 mm ²							891612CY	12	.673	17.1	156	351	523
892003CY	3	.342	8.7	27	82	122	891618CY	18	.826	20.9	219	493	734
892004CY	4	.370	9.4	32	97	145	891625CY	25	.996	25.3	292	687	1023
892005CY	5	.409	10.4	38	108	161	891634CY	34	1.067	27.1	409	769	1145
892007CY	7	.468	11.9	48	137	204	891650CY	50	1.260	32.0	554	1265	1883
892012CY	12	.551	14.0	71	214	319	14 AWG (320/38) 2.50 mm ²						
892018CY	18	.657	16.7	101	293	436	891404CY	4	.551	14.0	86	181	269
892025CY	25	.803	20.4	137	421	627	891407CY	7	.709	18.0	136	347	517
892034CY	34	.874	22.2	196	495	737	891418CY	18	1.012	25.7	368	762	1134
18 AWG (114/38) 0.75 mm ²							12 AWG (512/38) 4 mm ²						
891803CY	3	.375	9.5	34	91	136	891204CY	4	.650	16.5	146	245	365
891804CY	4	.419	10.6	46	112	167	891207CY	7	.858	21.8	225	517	769
891805CY	5	.447	11.4	54	131	195	10 AWG (343/34) 6 mm ²						
891807CY	7	.528	13.4	68	185	275	891004CY	4	.752	19.1	196	339	505
891812CY	12	.636	16.2	107	271	404	8 AWG (301/32) 10 mm ²						
891818CY	18	.719	18.3	162	357	532	890804CY	4	.882	22.4	305	701	1043
891825CY	25	.887	22.5	213	523	780	6 AWG (483/32) 16 mm ²						
891834CY	34	.986	25.0	273	660	984	890604CY	4	1.066	27.1	467	986	1467
16 AWG (190/38) 1.50 mm ²							4 AWG (768/32) 25 mm ²						
891603CY	3	.409	10.4	48	115	171	890404CY	4	1.227	31.2	637	1387	2065
891604CY	4	.444	11.3	61	147	219	2 AWG (1026/32) 35 mm ²						
891605CY	5	.480	12.2	70	163	243	890204CY	4	1.430	36.3	969	1686	2510
891607CY	7	.598	15.2	91	247	368							