

# OLFLEX® SERVO FD 790 CP



UL/CSA Approved Shielded Continuous Flex  
Composite Power Supply and Feedback Cable

OLFLEX® SERVO FD 790 CP is an industrial grade servo cable available in power only or power and feedback conductors. It has an orange polyurethane jacket and is compatible with most major servo drive manufacturers.

### Recommended Applications:

Motor connections for Servo motors, Automation equipment, Machine tool, Food & beverage, Automotive, Pick-n-place and Packaging industry

### Application Advantage:

- Orange jacket conforming to DESINA®
- The pairs are individually shielded for noise protection
- Flexing travel distance up to 33 Ft
- PUR jacket for optimal oil and abrasion resistance

### OLFLEX® SERVO FD 790 CP Construction:

Finely stranded bare copper power + pairs are a specially formulated PVC compound, (pairs are individually shielded with foil and tinned copper braid and overall PVC jacket over each pair); non-woven material wrap; overall foil and tinned copper braid; specially formulated orange polyurethane jacket.



<b>Cable Attributes, See Page 653</b> Oil Resistance: OR-05 Motion Type: CF-01 Flame Resistance: FR-02 Mechanical Properties: MP-05		<b>Availability:</b> Standard put-ups are 164ft, 328ft, 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 EPIC® CIRCON: Page 406
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### Technical Data:

Minimum Bending Radius for continuous flexing:	12 x cable diameter	Conductor Stranding:	Extra fine wire in acc. to VDE 0295 Cl.6/ IEC 228 Cl.6
Temperature Range: -for flexing: -for static:	-10°C to +80°C -40°C to +80°C	Color Code:	Black conductors with white numbers, plus green/yellow ground Pairs are black with white numbers 5+6 (1 pr) 7+8 (2 pr)
Nominal Voltage: Supply Conductors:	600V	Approvals:	UL: - AWM Style 20234 (Power Only) - AWM Style 20235 (Power + Pairs) CSA: - AWM I/II A/B (Power Only)
Test Voltage:	Power: 4000V Signal: 750V		

Part Number	AWG + Number of Conductors	Nominal Outer Diameter		Copper Weight lbs/mft	Approx. Weight	
		inches	mm		lbs/mft	kg/km
0037030	16 AWG/ 4c	.394	10.0	59	103	153
0037031	14 AWG/ 4c	.457	11.6	91	147	219
0037032	12 AWG/ 4c	.516	13.1	133	202	301
0037033	10 AWG/ 4c	.602	15.3	200	294	437
0037034	8 AWG/ 4c	.756	19.2	317	454	675
0037035	6 AWG/ 4c	.965	24.5	505	743	1106
0037036	4 AWG/ 4c	1.130	28.7	781	1094	1628
0037037	2 AWG/ 4c	1.339	34.0	1059	1469	2186
0037038	1 AWG/ 4c	1.579	40.1	1322	2101	3126

Part Number	Power Conductors	Plus	Signal Pairs Individually Shielded	Nominal Outer Diameter		Copper Weight lbs/mft	Approx. Weight	
				inches	mm		lbs/mft	kg/km
0037042	16 AWG/ 4c	+	19 AWG/ 2 pr	.622	15.8	120	267	397
0037043	14 AWG/ 4c	+	19 AWG/ 2 pr	.634	16.1	145	306	455
0037044	12 AWG/ 4c	+	19 AWG/ 1 pr + 18 AWG/ 1 pr	.681	17.3	198	387	576
0037045	10 AWG/ 4c	+	19 AWG/ 1 pr + 18 AWG/ 1 pr	.744	18.9	272	505	751
0037046	8 AWG/ 4c	+	19 AWG/ 1 pr + 18 AWG/ 1 pr	.886	22.5	385	652	970
0037047	6 AWG/ 4c	+	18 AWG/ 2 pr	1.067	27.1	562	905	1347
0037048	4 AWG/ 4c	+	16 AWG/ 2 pr	1.256	31.9	828	1247	1856
0037049	2 AWG/ 4c	+	16 AWG/ 2 pr	1.480	37.6	1137	1740	2590

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