

# OLFLEX® SERVO LK-SMS-FX5

Flexible Servo Cable for Stationary Applications according to Siemens Standard 6FX-5008



OLFLEX® SERVO LK-SMS-FX5 is a flexible, oil resistant, UL, CSA, VDE & CE power supply, feedback and signal cable in accordance with Siemens standards. It is designed for stationary use and can be provided as a complete assembly.

**Recommended Applications:**

Motor connections for servo motors, Food & beverage, Automotive and Packaging industry

**Application Advantage:**

- Built in accordance with Siemens standard 6FX-5008
- Signal cables are green and motor cables are orange in conformance with DESINA®
- All cables have an overall shield for EMI/RFI protection
- The cable can be provided as a complete assembly. Please call the factory for price and availability

**OLFLEX® SERVO LK-SMS-FX5 Construction:**

Finely stranded copper conductors; pairs are insulated with special elastomeric material; power conductors insulated with PVC; pairs shielded with aluminum foil and tinned copper shield (not all pairs are shielded for feedback cables); overall tinned copper braid (85% coverage), specially formulated PVC jacket.

**Feedback/ Signal Cables:**



**Motor & Servo Cables:**



Cable Attributes, See Page 653		
	Oil Resistance: OR-03	
	Motion Type: FL-01	
		Flame Resistance: FR-02
		Mechanical Properties: MP-01

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
		EPIC® CIRCON: Page 406

**Technical Data:**

- |   |                    |                      |   |
|---|--------------------|----------------------|---|
| Minimum Bending Radius: for flexible use: | 5 x cable diameter | Conductor Stranding: | Extra fine strands of plain copper wires IEC 60228 Cl.6   |
| Temperature Range:                        | -20°C to +80°C     | Color Code:          | Black with white numbers plus green/ yellow ground<br>Signal pair in servo is white & black<br>Feedback cable see next page |
| Nominal Voltage:                          |                    | Approvals:           |   |
| - Feedback/ Signal Cable:                 | 250V               | - Power Cables:      | UL: AWM Style 2570<br>CSA: AWM II A/B FT1   |
| - Motor & Servo Cable:                    | 1000V              | - Feedback Cables:   | UL: AWM 2502<br>CSA: AWM II A/B FT1   |

Lapp Part Numbers refer to genuine Lapp products. The Siemens Part Numbers (6FX5002/ 5008, 6FX 7002/ 7008, 6FX8002/ 8008, registered trademarks of Siemens AG) are for informational purposes only. DESINA® is a registered trademark of the Association of German Machine Tool Manufacturers.

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Flexible Servo Cable for Stationary Applications  
according to Siemens Standard 6FX-5008



Part Number	AWG + Number of Conductors	Siemens Part Number	Nominal Outer Diameter		Copper Weight lbs/mft	Approx. Weight		
			inches	mm		lbs/mft	kg/km	
<b>Feedback/Signal Cables- Green</b>								
0025724	22 AWG/ 4pr + 20 AWG/ 4c	6FX5008-1BD21	.354	9.0	51	81	120	
0025725	26 AWG/ 3pr (ISP) + 26 AWG/ 4c + 20 AWG/ 1pr	6FX5008-1BD41	.350	8.9	42	67	100	
0025726	26 AWG/ 3pr (ISP) + 26 AWG/ 4c + 20 AWG/ 1pr + 24 AWG/ 4c	6FX5008-1BD51	.374	9.5	46	93	139	
<b>Motor Cables- Orange</b>								
0025700	16 AWG/ 4c	6FX5008-1BB11	.382	9.7	59	88	131	
0025701	14 AWG/ 4c	6FX5008-1BB21	.437	11.1	89	147	219	
0025702	12 AWG/ 4c	6FX5008-1BB31	.508	12.9	131	210	312	
0025703	10 AWG/ 4c	6FX5008-1BB41	.598	15.2	188	255	380	
0025704	8 AWG/ 4c	6FX5008-1BB51	.760	19.3	299	417	620	
0025705	6 AWG/ 4c	6FX5008-1BB61	.917	23.3	480	712	1060	
0025706	4 AWG/ 4c	6FX5008-1BB25	1.059	26.9	746	1102	1640	
0025707	2 AWG/ 4c	6FX5008-1BB35	1.193	30.3	1035	1552	2310	
0025708	1 AWG/ 4c	6FX5008-1BB50	1.437	36.5	1451	2177	3240	
0025709	2/0 AWG/ 4c	6FX5008-1BB70	1.614	41.0	1982	2973	4425	
0025710	3/0 AWG/ 4c	6FX5008-1BB95	1.957	49.7	2742	4112	6120	
0025711	4/0 AWG/ 4c	6FX5008-1BB12	2.126	54.0	3407	5110	7605	
0025712	300 KCMIL/ 4c	6FX5008-1BB15	2.402	61.0	4070	6105	9086	
0025713	350 KCMIL/ 4c	6FX5008-1BB18	2.528	64.2	4907	7360	10955	
0025714	500 KCMIL/ 4c	6FX5008-1BB24	2.756	70.0	6599	9897	14730	
<b>Servo Cables- Orange</b>								
0025715	16 AWG/ 4c +16 AWG/ 1pr	6FX5008-1BA11	.500	12.7	101	167	248	
0025716	14 AWG/ 4c +16 AWG/ 1pr	6FX5008-1BA21	.543	13.8	130	208	310	
0025717	12 AWG/ 4c +16 AWG/ 1pr	6FX5008-1BA31	.610	15.5	183	299	445	
0025718	10 AWG/ 4c +16 AWG/ 1pr	6FX5008-1BA41	.650	16.5	236	372	554	
0025719	8 AWG/ 4c +16 AWG/ 1pr	6FX5008-1BA51	.827	21.0	360	542	806	
0025720	6 AWG/ 4c +16 AWG/ 1pr	6FX5008-1BA61	.917	23.3	519	729	1085	
0025721	4 AWG/ 4c +16 AWG/ 1pr	6FX5008-1BA25	1.114	28.3	743	1132	1685	
0025722	2 AWG/ 4c +16 AWG/ 1pr	6FX5008-1BA35	1.236	31.4	987	1481	2204	
0025723	1 AWG/ 4c +16 AWG/ 1pr	6FX5008-1BA50	1.437	36.5	1357	2036	3030	

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ISP= Individually Shielded Pairs

## Color Code for Feedback Cables

Part Number	Color Code
0025724	22 AWG/ 4pr: Brown/Black, Red/Orange, Yellow/Green, Blue/Violet 20 AWG/ 4c: Blue & White, Black & White, Red & White, Yellow & White
0025725	26 AWG/ 3pr: Yellow/Green, Black/Brown, Red/Orange 26 AWG/ 4c: Gray & Blue, White & Yellow, White & Black 20 AWG/ 1pr: Brown/Red paired with Brown/Blue
0025726	26 AWG/ 3pr: Yellow/Green, Black/Brown, Red/Orange 26 AWG/ 4c: Gray & Blue, White & Yellow, White & Black 20 AWG/ 1pr: Brown/Red paired with Brown/Blue 24 AWG/ 4c: Brown & Yellow, Brown & Gray, Green & Black, Green & Red