

OLFLEX® SERVO FD LK-SMS-FX8

Continuous Flex Servo Cable
according to Siemens Standard 6FX-8008



OLFLEX® SERVO LK-SMS-FX8 is a highly flexible, oil resistant, UL, CSA, VDE & CE power supply, power w/ pairs and feedback/signal cable in accordance with Siemens standards. It is designed for continuous flex use and can be provided as a complete assembly.

Recommended Applications:

Motor connections for servo motors, Machine tool, Food & beverage, Automotive, Pick-n-place, Packaging industry, Multi axis machinery and Material handling

Application Advantage:

- Designed in accordance with Siemens standard 6FX 8008
- Signal cables are green and motor cables are orange in conformance with DESINA®
- Travel distance for flexing up to 328 ft (horizontal)
- All cables have an overall shield for EMI/RFI protection
- Halogen-free and very good cold temperature performance
- The cable can be provided as a complete assembly
Please call the factory for price and availability

OLFLEX® SERVO LK-SMS-F8 Construction:

Finely stranded copper conductors; pairs are insulated with special elastomeric material; power conductors insulated with TPE; 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 polyurethane jacket.

Feedback/ Signal Cables:



Motor & Servo Cables:



Assemblies available, see Page 625



Cable Attributes, See Page 653 Oil Resistance: OR-03 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 EPIC® CIRCON: Page 407
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Technical Data:

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| <p> Minimum Bending Radius: for continuous flexing:
 - ≤ 4.0 mm² 10 x cable diameter
 - > 4.0 mm² 12 x cable diameter</p> | <p> Conductor Stranding: Extra Fine Strands in acc. with IEC 60228 Cl. 6</p> |
| <p> Temperature Range:
 - for flexing: -10°C to +60°C
 - for static: -50°C to +80°C</p> | <p> Color Code: Black with white numbers
Signal pair in servo is white & black
Feedback cable see next page</p> |
| <p> Nominal Voltage:
 - Feedback/Signal Cable: 250V
 - Motor & Servo Cable: 1000V</p> | <p> Approvals:
 - Power Cables: UL: AWM Style 20234
 CSA: AWM II A/B FT1
 - Feedback Cables: UL: AWM 20236
 CSA: AWM II A/B FT1</p> |

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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Part Number	AWG + Number of Conductors	Siemens Part Number	Nominal Outer Diameter		Copper Weight lbs/mft	Approx. Weight		
			inches	mm		lbs/mft	kg/km	
Feedback/Signal Cables- Green								
0027710	26 AWG/ 8pr	6FX8008-1BD11	.307	7.8	36	57	85	
0027711	22 AWG/ 4pr + 20 AWG/ 4c	6FX8008-1BD21	.350	8.9	52	81	120	
0027712	26 AWG/ 3pr (ISP) + 20 AWG/ 2c	6FX8008-1BD31	.354	9.0	46	76	113	
0027713	26 AWG/ 3pr (ISP) + 26 AWG/ 4c + 20 AWG/ 1pr	6FX8008-1BD41	.350	8.9	44	68	101	
0027714	26 AWG/ 3pr (ISP) + 26 AWG/ 4c + 20 AWG/ 1pr + 24 AWG/ 4c	6FX8008-1BD51	.374	9.5	58	93	139	
0027715	26 AWG/ 4pr	6FX8008-1BD61	.252	6.4	23	36	53	
0027716	26 AWG/ 2pr	6FX8008-1BD71	.197	5.0	16	24	36	
0027717	24 AWG/ 12c	6FX8008-1BD81	.272	6.9	32	51	76	
Motor Cables- Orange								
0027724	16 AWG/ 4c	6FX8008-1BB11	.390	9.9	56	104	155	
0027725	14 AWG/ 4c	6FX8008-1BB21	.457	11.6	91	155	230	
0027726	12 AWG/ 4c	6FX8008-1BB31	.500	12.7	138	212	315	
0027727	10 AWG/ 4c	6FX8008-1BB41	.559	14.2	182	282	420	
0027728	8 AWG/ 4c	6FX8008-1BB51	.650	16.5	308	420	625	
0027729	6 AWG/ 4c	6FX8008-1BB61	.780	19.8	486	632	940	
Servo Cables- Orange								
0027718	16 AWG/ 4c +16 AWG/ 1pr	6FX8008-1BA11	.492	12.5	96	161	240	
0027719	14 AWG/ 4c +16 AWG/ 1pr	6FX8008-1BA21	.543	13.8	125	202	300	
0027720	12 AWG/ 4c +16 AWG/ 1pr	6FX8008-1BA31	.587	14.9	175	267	398	
0027721	10 AWG/ 4c +16 AWG/ 1pr	6FX8008-1BA41	.626	15.9	222	355	528	
0027722	8 AWG/ 4c +16 AWG/ 1pr	6FX8008-1BA51	.709	18.0	349	524	780	
0027723	6 AWG/ 4c +16 AWG/ 1pr	6FX8008-1BA61	.858	21.8	528	705	1050	
0027730	4 AWG/ 4c +16 AWG/ 1pr	6FX8008-1BA25	1.051	26.7	786	739	1520	
0027731	2 AWG/ 4c +16 AWG/ 1pr	6FX8008-1BA35	1.213	30.8	1065	1008	2065	
0027732	1 AWG/ 4c +16 AWG/ 1pr	6FX8008-1BA50	1.366	34.7	1468	1388	2896	

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ISP= Individually Shielded Pairs

Color Code for Feedback Cables

Part Number	Color Code
0027710	26 AWG/ 8pr: White/Yellow & White/Green, White/Red & White/Orange, White/Black & White/Brown, Gray/White, Blue/Violet, Yellow/Green, Red/Orange, Black/Brown
0027711	22 AWG/ 4pr: Brown/Black, Red/Orange, Yellow/Green, Blue/Violet 20 AWG/ 4c: Blue & White, Black & White, Red & White, Yellow & White
0027712	26 AWG/ 3pr: Yellow/Green, Black/Brown, Red/Orange 20 AWG/ 2c: Black & Red
0027713	26 AWG/ 3pr: Yellow/Green, Black/Brown, Red/Orange 26 AWG/ 4c: Gray & Black, White & Yellow, White & Black 20 AWG/ 1pr: Brown/Red paired with Brown/Blue
0027714	26 AWG/ 3pr: Yellow/Green, Black/Brown, Red/Orange 26 AWG/ 4c: Gray & Black, White & Yellow, White & Black 20 AWG/ 1pr: Brown/Red paired with Brown/Blue 24 AWG/ 4c: Brown & Yellow, Brown & Gray, Green & Black, Gray & Red
0027715	26 AWG/ 4pr: Brown/Black, Red/Orange, Yellow/Green, Blue/Violet
0027716	26 AWG/ 2pr: Red/Orange, Red/Orange
0027717	24 AWG/ 12c: Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, White & Black, White & Brown