

## Servo cable according to SIEMENS® standard 6FX 5008

Flexible servo cable for stationary applications



Servo cables according to SIEMENS® standard 6FX 5008 are flexible, oil-resistant, UL, CSA, VDE & CE rated power supply, feedback and signal cables for signal transmission or motor connections.

### Construction

**Conductors:** finely stranded bare copper

**Insulation:** 16 - 10 AWG: polypropylene • 8 AWG & larger: PVC

**Pairs:** shielded with tinned copper braid (not all feedback pairs are shielded)

**Shielding:** overall tinned copper braid

**Jacket:** feedback/signal: green PVC • servo/motor: orange PVC

### Recommended applications

Sensor leads for signal transmission and motor connections; servo and power drive systems for food & beverage, automotive, packaging, and other industries

### Application advantage

- Built in accordance with SIEMENS® standard 6FX 5008
- Colored jackets in accordance with DESINA®
- All cables have an overall shield for EMI & RFI protection
- Oil-resistant jacket
- Cables can be provided as a complete assembly: call factory for price and delivery information

### Approvals



Cable attributes		page 648	
OIL	OR-02	FLAME	FR-02
MOTION	FL-01	MECH.	MP-02

Complete the installation	
EPIC® POWER LS1 page 441	EPIC® SIGNAL M23 page 446

ÖLFLEX® CONNECT solution	
ÖLFLEX® CONNECT SERVO page 607	

### Technical data

<b>Minimum bend radius:</b>	5 x cable diameter	<b>Conductor stranding:</b>	Class 5 fine wire
<b>Temperature range:</b>	- for flexible use: 0°C to +60°C - for stationary use: -20°C to +80°C	<b>Color code:</b>	- feedback/signal cables: see following color chart - motor/servo cables: black with white letters: U/L1/C/L+; V/L2; W/L3/D/L- plus green/yellow ground
<b>Nominal voltage:</b>	- UL/CSA: - power conductors: 1000V - control conductors: 1000V - feedback/signal cond.: 30V	<b>Approvals:</b>	UL: AWM 2570 (motor) AWM 2502 (signal) Canada: CSA AWM II A/B FT1 Additional: based on VDE specifications CE & RoHS
<b>Test voltage:</b>	- power conductors: 4000V - control conductors: 2000V - feedback/signal cond.: 500V		

Servo cable according to SIEMENS® standard 6FX 5008

color code: feedback/signal cable

Part number	Conductor description	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 & brown/blue

Part number	Conductor description	Color code
0025726	26 AWG/3pr	yellow & green • black & brown • red & orange
	26 AWG/4c	gray • blue • white/yellow • white/black
	24 AWG/4c	brown/yellow • brown/gray green/black • green/red
	20 AWG/1pr	brown/red & brown/blue

Part number	Conductor description	SIEMENS® part number	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	EPIC® POWER LS1* configuration	EPIC® SIGNAL M23 # of contacts
			in	mm				
<b>feedback/signal cables</b>								
0025724	22 AWG/4 pr + 20 AWG/4c	6FX5008-1BD21	0.354	9.0	51	81	—	12
0025725	3 x (26 AWG/1pr) + 26 AWG/4c + 20 AWG/1pr	6FX5008-1BD41	0.350	8.9	42	67	—	12
0025726	3 x (26 AWG/1pr) + 26 AWG/4c + 20 AWG/1pr + 24 AWG/4c	6FX5008-1BD51	0.374	9.5	46	93	—	16
<b>motor cables</b>								
00257001	16 AWG/4c	6FX5008-1BB11LC	0.315	8.0	59	88	5+PE	—
00257011	14 AWG/4c	6FX5008-1BB21LC	0.378	9.6	89	147	5+PE	—
00257021	12 AWG/4c	6FX5008-1BB31LC	0.433	11.0	131	210	5+PE	—
00257031	10 AWG/4c	6FX5008-1BB41LC	0.516	13.1	188	255	—	—
0025704	8 AWG/4c	6FX5008-1BB51	0.760	19.3	299	417	—	—
0025705	6 AWG/4c	6FX5008-1BB61	0.918	23.3	480	712	—	—
0025706	4 AWG/4c	6FX5008-1BB25	1.060	26.9	746	1102	—	—
0025707	2 AWG/4c	6FX5008-1BB35	1.194	30.3	1035	1552	—	—
0025708	1 AWG/4c	6FX5008-1BB50	1.438	36.5	1451	2177	—	—
<b>servo cables</b>								
00257151	16 AWG/4c + (16 AWG/1pr)	6FX5008-1BA11LC	0.410	10.4	101	167	3+PE+4	—
00257161	14 AWG/4c + (16 AWG/1pr)	6FX5008-1BA21LC	0.473	12.0	130	208	3+PE+4	—
00257171	12 AWG/4c + (16 AWG/1pr)	6FX5008-1BA31LC	0.536	13.6	183	299	3+PE+4	—
00257181	10 AWG/4c + (16 AWG/1pr)	6FX5008-1BA41LC	0.615	15.6	236	379	—	—
0025719	8 AWG/4c + (16 AWG/1pr)	6FX5008-1BA51	0.827	21.0	360	542	—	—

( ) = shielded

\* Check connection on motor prior to selecting EPIC® POWER LS1 connector type



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