

SERVO-SM8 6FX-8008® Series



SERVO-SM8 are continuous flex, flame retardant, oil-resistant, overall shielded, UL/CSA, VDE, CE & DESINA approved, orange polyurethane servo cable designed for highly flexible servo-motor applications in accordance with Siemens 6FX-8008® cable standards. These servo cables are well suited for servo motor connections, feedback cables or in power and supply chains. Commonly found in machine tools, car body presses and in machine components of transfer lines or production plants. The overall tinned copper braid shield improves protection against electromagnetic & RFI interferences. 100% compatible with Siemens systems.



Construction:

- Designed to Siemens 6FX8008
- Extra-fine bare copper strands
- Strands to VDE-0295 Class-6, IEC 60228 Cl-6
- Special thermoplastic core insulation
- Color code VDE-0293 - black & numbered
- Control cores are black w/ foil & braid shield
- Ground wire in outer layer
- Polyester wrapping over all inners
- 85% tinned copper braid shield
- Special PUR outer jacket - orange (RAL 2003)
- **Extremely oil resistant**

Technical:

- Power core voltage: 600/1000 volts
- Control core voltage: 250 volts
- Test power voltage: 4000 volts
- Test control voltage: 1000 volts
- Flexing bending radius: 10 x Ø
- Static bending radius: 7 x Ø
- Flexing temp: -40° C to +80° C
- Static temp: -50° C to +90° C
- Flame retardant: IEC 60332.1, FT-1
- Insulation resistance: 20 MΩ x km

Approvals:

- UL AWM style 20234
- CSA AWM II A/B, FT-1
- VDE-0293, 0295, 0250 & 0281
- DESINA
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	DESCRIPTION	SIEMENS#	NOMINAL OD	CU LBS/MFT	LBS/MFT
MOTOR CABLES					
9751604	#16-4/c	6FX8008-1BB11	0.382" / 9.7mm	56	105
9751404	#14-4/c	6FX8008-1BB21	0.437" / 11.1mm	91	164
9751204	#12-4/c	6FX8008-1BB31	0.508" / 12.9mm	138	218
9751004	#10-4/c	6FX8008-1BB41	0.598" / 15.2mm	182	290
9750804	#8-4/c	6FX8008-1BB51	0.760" / 19.3mm	308	425
9750604	#6-4/c	6FX8008-1BB61	0.917" / 23.3mm	486	641
SERVO-MOTOR					
9761604	#16-4/c & SHLD #16-2/c	6FX8008-1BA11	0.492" / 12.5mm	96	168
9761404	#14-4/c & SHLD #16-2/c	6FX8008-1BA21	0.543" / 13.8mm	125	204
9761204	#12-4/c & SHLD #16-2/c	6FX8008-1BA31	0.587" / 14.9mm	175	272
9761004	#10-4/c & SHLD #16-2/c	6FX8008-1BA41	0.626" / 15.9mm	222	354
9760804	#8-4/c & SHLD #16-2/c	6FX8008-1BA51	0.709" / 18.0mm	349	534
9760604	#6-4/c & SHLD #16-2/c	6FX8008-1BA61	0.858" / 21.8mm	528	704
9760404	#4-4/c & SHLD #16-2/c	6FX8008-1BA25	1.051" / 26.7mm	786	762
9760204	#2-4/c & SHLD #16-2/c	6FX8008-1BA35	1.213" / 30.8mm	1065	1004
9760104	#1-4/c & SHLD #16-2/c	6FX8008-1BA50	1.366" / 34.7mm	1468	1392

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