



## Servo harnessing according to SIEMENS® 6FX 8002-



### Benefits

- Highly flexible servomotor and sensor cables that are designed for use in power chains
- 100% compatible with SIEMENS® systems
- The oil-resistant PUR sheath enables usage in industrial environments

### Application range

- Plant engineering
- Servo drives and servo assemblies

### Product features

- Abrasion and cut-resistant, halogen-free, oil-resistant

### Product Make-up

- Extra-fine strand made of copper wires:
  - > Signal cables: tinned
  - > Power cables: bare

- Design according to SIEMENS® standard 6FX 8002
- PUR outer sheath
- Signal cables: green (RAL 6018)
- Servo cable: orange (RAL 2003)

### Note

- Please comply with the assembly guidelines for cables in power chain systems.
- Maximum cable length must comply with the specifications set by the manufacturer of the respective servo drives
- The technical data correspond to the cables used

### Product Make-up

- Other versions and lengths can be delivered upon request.

### Technical data

**Classification**  
 ETIM 5.0 Class-ID: EC000104  
 ETIM 5.0 Class-Description:  
 Control cable

**Certifications**  
 Power cable:  
 VDE-registered  
 UL AWM Style 21223  
 CSA AWM I/II, A/B 1000 V 80° FT 1  
 Signal cables:  
 UL/CSA AWM Style 20236

**Minimum bending radius**  
 Power cable:  
 Fixed: 4 x Diameter  
 Dynamic:  
 1.5 mm<sup>2</sup> - 16 mm<sup>2</sup>: 7.5 x Diameter  
 25 mm<sup>2</sup> - 50 mm<sup>2</sup>: 10 x Diameter  
 Signal cable:  
 Fixed: 4 x Diameter  
 Dynamic: 8 x Diameter

**Nominal voltage**  
 Signal cables:  
 30 V AC (IEC)  
 30 V AC/DC (UL/CSA)  
 Power cable:  
 - Power cores:  
 U<sub>0</sub>/U 600/1000 V (IEC)  
 1000 V (UL/CSA)  
 - Control cores:  
 250 V AC (IEC)  
 1000 V (UL/CSA)

**Temperature range**  
 Fixed installation: -50°C to +80°C  
 Flexing: -20°C to +60°C

Article number	Length (m)	SIEMENS® assembly designation	SIEMENS® cable designation	Other dimensions	PU
<b>Assemblies for signal transmission systems</b>					
70301549	10.0	6FX8002-2AD00-1BA0	6FX8008-1BD41	Other lengths available	1
74303559	10.0	6FX8002-2AD04-1BA0	6FX8008-1BD41	Other lengths available	1
70389020	10.0	6FX8002-2AH00-1BA0	6FX8008-1BD41	Other lengths available	1
70301550	10.0	6FX8002-2CA11-1BA0	6FX8008-1BD21	Other lengths available	1
70301553	10.0	6FX8002-2CA31-1BA0	6FX8008-1BD51	Other lengths available	1
70301554	10.0	6FX8002-2CA34-1BA0	6FX8008-1BD51	Other lengths available	1
70301563	10.0	6FX8002-2CG00-1BA0	6FX8008-1BD21	Other lengths available	1
70301564	10.0	6FX8002-2CH00-1BA0	6FX8008-1BD41	Other lengths available	1
70301567	10.0	6FX8002-2EQ10-1BA0	6FX8008-1BD51	Other lengths available	1
70391522	10.0	6FX8002-2EQ14-1BA0	6FX8008-1BD51	Other lengths available	1
70301568	10.0	6FX8002-2CF01-1BA0	6FX8008-1BD41	Other lengths available	1
70301569	10.0	6FX8002-2CF02-1BA0	6FX8008-1BD41	Other lengths available	1
70301575	10.0	6FX8002-4AA21-1BA0	6FX8008-1BD61	Other lengths available	1
70430149	10.0	6FX8002-2DC00-1BA0	6FX8008-2DC00	Other lengths available	1
70431018	10.0	6FX8002-2DC10-1BA0	6FX8008-2DC00	Other lengths available	1
70430096	10.0	6FX8002-2DC20-1BA0	6FX8008-2DC00	Other lengths available	1
<b>Assemblies for motors without brake</b>					
70301578	10.0	6FX8002-5CA01-1BA0	6FX8008-1BB11	Other lengths available	1
70301601	10.0	6FX8002-5CA05-1BA0	6FX8008-1BB11	Other lengths available	1
70301583	10.0	6FX8002-5CA31-1BA0	6FX8008-1BB21	Other lengths available	1
70301585	10.0	6FX8002-5CA41-1BA0	6FX8008-1BB31	Other lengths available	1
70301586	10.0	6FX8002-5CA51-1BA0	6FX8008-1BB41	Other lengths available	1
70430007	10.0	6FX8002-5CS01-1BA0	6FX8008-1BB11	Other lengths available	1
70430008	10.0	6FX8002-5CS11-1BA0	6FX8008-1BB21	Other lengths available	1
<b>Assemblies for motors with brake</b>					
70301588	10.0	6FX8002-5DA01-1BA0	6FX8008-1BA11	Other lengths available	1
70301600	10.0	6FX8002-5DA05-1BA0	6FX8008-1BA11	Other lengths available	1
70301594	10.0	6FX8002-5DA31-1BA0	6FX8008-1BA21	Other lengths available	1
70301597	10.0	6FX8002-5DA41-1BA0	6FX8008-1BA31	Other lengths available	1
70301598	10.0	6FX8002-5DA51-1BA0	6FX8008-1BA41	Other lengths available	1
70430005	10.0	6FX8002-5DS01-1BA0	6FX8008-1BA11	Other lengths available	1
70430006	10.0	6FX8002-5DS11-1BA0	6FX8008-1BA21	Other lengths available	1

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

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Article numbers refer to genuine Lapp products.

Other designs and lengths are available upon request.

Photographs are not to scale and do not represent detailed images of the respective products.