



SERVO cables in acc. to SIEMENS® Standard 6FX 5008- Motor and resolver/encoder cables

Info

- Servo drives
- EMC-compliant



Benefits

- New motor & servomotor cables up to 6 mm²: low capacitance characteristics due to PP insulation
- Multi-standard = fewer part varieties = cost savings

Application range

- Servo applications - power drive systems
- Plant engineering
- Machine tool manufacture
- Printing machines

Product features

- Oil-resistant
- Flame-retardant according to IEC 60332-1-2 & CSA FT 1

Norm references / Approvals

- Power cable: VDE-registered UL/CSA AWM Style 2570
- Signal cables: UL/CSA AWM style 2502
- UL File Nr. E63634

Product make-up

- Design according to SIEMENS® standard 6FX 5008
- Core insulation: up to 6 mm² = PP; 10 mm² and larger = PVC
- Core and pairs are twisted together
- Tinned-copper braiding
- Outer sheath made of special PVC compound
- Signal cables: green (RAL 6018)
- Motor and servomotor cables: orange (RAL 2003)

Technical data

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

Conductor stranding
Fine wire according to VDE 0295, class 5/IEC 60228 class 5

Minimum bending radius
For fixed installation: 5 x outer diameter
For flexible use: 15 x outer diameter

Nominal voltage
Signal cables:
- 30 V AC/DC (UL/CSA)
- 30 V AC (IEC)
Power cable:
- Power cores:
1000 V (UL/CSA)
600/1000 V (IEC)
- Control cores:
1000 V (UL/CSA)
30 V AC (IEC)

Test voltage
Power cable:
Power cores: 4000 V eff.
Control cores: 2000 V eff.
Signal cables: 500 V rms

Temperature range
Fixed installation: -20°C to +80°C
Flexing: from -0°C to +60°C

Article number	Number of cores and mm ² per conductor	Reference article no.	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
Signal cables					
0025724	4 x 2 x 0,38 + 4 x 0,5	6FX5008-1BD21	9.0	76.4	120
0025725	3 x (2 x 0,14) + 4 x 0,14 + 2 x 0,5	6FX5008-1BD41	8.9	63.0	100
0025726	3 x (2 x 0,14) + 4 x 0,14 + 2 x 0,5 + 4 x 0,23	6FX5008-1BD51	9.5	69.0	139
Motor cables					
00257001	4 G 1.5	6FX5008-1BB11 LC	8.0	88.0	131
00257011	4 G 2.5	6FX5008-1BB21 LC	9.6	132.0	219
00257021	4 G 4	6FX5008-1BB31 LC	11.0	195.0	312
00257031	4 G 6	6FX5008-1BB41 LC	13.1	280.0	380
0025704	4 G 10	6FX5008-1BB51	19.3	445.0	620
0025705	4 G 16	6FX5008-1BB61	23.3	715.0	1060
0025706	4 G 25	6FX5008-1BB25	26.9	1,110.0	1640
0025707	4 G 35	6FX5008-1BB35	30.3	1,540.0	2310
0025708	4 G 50	6FX5008-1BB50	36.5	2,160.0	3240
Servo cables					
00257151	4 G 1,5 + (2 x 1,5)	6FX5008-1BA11 LC	10.4	150.0	248
00257161	4 G 2,5 + (2 x 1,5)	6FX5008-1BA21 LC	12.0	194.0	310
00257171	4 G 4 + (2 x 1,5)	6FX5008-1BA31 LC	13.6	272.0	445
00257181	4 G 6 + (2 x 1,5)	6FX5008-1BA41 LC	15.6	351.0	554
0025719	4 G 10 + (2 x 1,5)	6FX5008-1BA51	21.0	536.0	806

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: EUR 150/100kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges. Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum
Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).
Siemens part designations (6FX5002/5008, 6FX7002/7008, 6FX8002/8008) are registered trademarks of Siemens AG, and are listed for comparison purposes only. DESINA® is a registered trademark of the German Machine Tool Builders' Association.
Article numbers refer to genuine Lapp products.
Photographs are not to scale and do not represent detailed images of the respective products.

Similar products

- ÖLFLEX® SERVO FD 796 CP refer to page 101
- SERVO cables in acc. to SIEMENS® Standard 6FX 8PLUS refer to page 103

Accessories

- Circular connectors refer to page 608
- SKINTOP® EMC/Earthing refer to page 674