

U.I. Lapp GmbH	<b>DATASHEET</b>	
	<b>SERVO cables in acc. to SIEMENS® Standard 6FX 5008-</b>	00257161 14.11.2013

Motor and resolver/encoder cables

New motor & servomotor cables up to 6 mm<sup>2</sup>: low capacitance characteristics due to PP insulation

Multi-standard = fewer part varieties = cost savings



Oil-resistant



Interference signals

### Info

Servo drives

EMC-compliant

### Application range

Servo applications - power drive systems

Plant engineering

Machine tool manufacture

Printing machines

### Design

Design according to SIEMENS® standard 6FX 5008

Core insulation: up to 6 mm<sup>2</sup> = PP; 10 mm<sup>2</sup> 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)

### Norm references / Approvals

Power cable: VDE-registered UL/CSA AWM Style 2570

Signal cables: UL/CSA AWM style 2502

UL File No. E63634

### Product features

Oil-resistant

Flame-retardant according to IEC 60332-1-2 & CSA FT1

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## Remark

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](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: coil  $\leq$  30 kg or  $\leq$  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.

## Technical Data

Number of cores and mm <sup>2</sup> per conductor:	4 G 2,5 + (2 x 1,5)
Reference article no.:	6FX5008-1BA21 LC
Outer diameter (mm):	12
Copper index (kg/km):	194
Weight (kg/km):	310
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

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