

Motor connection cable for linear drives, orange, DESINA® compliant

### Product Description

Multi-Standard= less part varieties= cost savings; Can also be used mobile outdoors



### Application range

- Linear motors
- Connecting cable between servo controller and motor
- Plant engineering
- Especially in wet areas of machine tools and transfer lines subject to average mechanical stress
- Assembly lines, production lines, in all kinds of machines

### Benefits

- Multi-Standard= less part varieties= cost savings
- Can also be used mobile outdoors

### Design

- In accordance with SIEMENS® standard 6FX7008
- Core insulation: TPE
- Control cores twisted in "star 4-wire".
- Nonwoven wrapping
- tinned copper braid
- Polyurethane sheath (PUR), orange (RAL 2003)

### Approvals (Norm references)

- For travel distances up to 100 m (horizontal)
- Usage in Power Chains: Please comply with the assembly guidelines Appendix T3
- USA: Acc. NFPA79 Ed 08 in industrial machinery as part of a listed assembly only.
- Conform to DESINA®



Product features

- Designed for up to 5 million bending change cycles in the power chain
- Abrasion and cut resistant
- Oil resistant
- Flame retardant acc. IEC 60332-1-2 & CSA FT1
- This cable has been designed especially for linear motor applications and is able to withstand high accelerations, up to 50m/s<sup>2</sup>

Cross-References

Accessories

SILVYN® CHAIN Cable protection and guiding systems

Technical Data

Approvals

UL/CSA Style AWM 20234

Conductor stranding

Extra fine strands of plain copper wires according to VDE 0295 Class 6 / IEC 60228 Class 6

Minimum bending radius

Fixed installation: 4 x outer diameter  
For flexible applications: 7.5 x outside diameter

Rated voltage

Cores: - 1000 V (UL/CSA) - 600/1000 V (IEC)  
Control cores: - 1000 V (UL/CSA) - 24 V (IEC)

Test voltage

Cores: 4000 V Control cores: 1500 V

Range of temperature

Fixed installation: -40°C up to +90°C  
For flexible applications: from -20°C up to +60°C

Article List

Part number	Number of cores and mm <sup>2</sup> per conductor	Reference part. No.	Outer diameter in mm	Copper index kg/km	Weight kg/km
0027770	4 G 1,5 + (4 x 0,5)	6FX7008-1BC11	13.4	150.0	250
0027771	4 G 2,5 + (4 x 0,5)	6FX7008-1BC21	14.5	190.0	300
0027772	4 G 4 + (4 x 0,5)	6FX7008-1BC31	16.1	250.0	380
0027773	4 G 6 + (4 x 0,5)	6FX7008-1BC41	18.5	350.0	540

Footnote:

All product related values as shown are nominal values unless specified differently. Further values, e.g. tolerances we submit on request - if available and released for publication.



Copper price basis: EUR 150 / 100 kg; For utilization and definition of 'Metal price basis' and 'Metal index' see Appendix T17

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 and  $\leq$  250 m, otherwise drum

Please specify the desired packaging size (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 for comparing purpose only. DESINA® is a registered trademark of the Association of German Machine Tool

Manufacturers

FD-cables for powerchain use (continuous flexing) should only be handled on drums prior to installation.

Part number refers to genuine LAPP part

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