

Sensor leads for signal transmission systems and Motor connection cables

Product Description

New motor & servo motor cable up to 6mm²: Low capacitance characteristic because its PP-Insulation; Multi-Standard= less part varieties= cost savings



Application range

- Servo and power drive systems
- Plant engineering
- Machine tool manufacturing
- Printing machines

Benefits

- New motor & servo motor cable up to 6mm²: Low capacitance characteristic because its PP-Insulation
- Multi-Standard= less part varieties= cost savings

Design

- Design according to SIEMENS® standard 6FX 5008.
- Core insulation: Up to 6mm²: PP, 10mm² and larger: PVC
- Cores and pairs twisted together
- tinned copper braid
- Special PVC outer sheath
- Signal cables: green (RAL 6018)
- Motor- and servo motor cables: orange (RAL 2003)

Approvals (Norm references)

- USA: Acc. NFPA79 Ed 08 in industrial machinery as part of a listed assembly only.
- Multi standard cables have conductor strands with nominal sizes in mm² or AWG/kcmil nominal sizes. The master size is mentioned in the table below, the equivalent size of the other system can be found in the



catalogue appendix table T16. For this related secondary size the conductor cross-section mostly works out greater than the specified nominal value.

Product features

- Oil resistant
- Flame retardant acc. IEC 60332-1-2 & CSA FT1

Technical Data

Approvals

Power cables: VDE-registered UL/CSA AWM style 2570

Signal cables: UL/CSA AWM style 2502

Conductor stranding

Fine wire in accordance to VDE 0295 Class 5 / IEC 60228 Class 5

Minimum bending radius

For fixed installation: 5 x outside diameter

Flexing: 15 x outer diameter

Rated voltage

Signal cables: - 30 V AC/DC (UL/CSA) - 250 V AC (IEC)

Power cables: Cores: 1000 V (UL/CSA) 600 /1000 V (IEC)

Control cores: 1000 V (UL/CSA) 30 V AC (IEC)

Test voltage

Power cables: Cores: 4000 V eff. Control cores: 2000 V eff.

Signal cables: 500 V rms

Range of temperature

Fixed installation: from -20°C up to +80°C

Flexing: from -0°C up to +60°C

Article List

Part number	Number of cores and mm ² per conductor	Reference part. No.	Outer diameter in 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 G1,5	6FX5008-1BB11 LC	8.0	88.0	131



00257011	4 G2,5	6FX5008-1BB21 LC	9,6	132.0	219
00257021	4 G4	6FX5008-1BB31 LC	11.0	195.0	312
00257031	4 G6	6FX5008-1BB41 LC	13,1	280.0	380
0025704	4 G10	6FX5008-1BB51	19,3	445.0	620
0025705	4 G16	6FX5008-1BB61	23,3	715.0	1060
0025706	4 G25	6FX5008-1BB25	26,9	1110.0	1640
0025707	4 G35	6FX5008-1BB35	30,3	1540.0	2310
0025708	4 G50	6FX5008-1BB50	36,5	2160.0	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

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

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)

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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.