

Sensor leads for signal transmission systems and Motor connection cables

Product Description

Motor cable: Low capacitance characteristic; Multi-Standard= less part varieties= cost savings



Application range

- Connecting cable between servo controller and encoder / resolver
- 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

- Motor cable: Low capacitance characteristic
- Multi-Standard= less part varieties= cost savings

Design

- Design according to LENZE® standard:
- Models for fixed installation: PVC vinyl outer sheath, flame-retardant according to IEC 332.1, PVC vinyl core insulation UL/CSA approved.
- Models for highly flexible use: oil-resistant PUR sheath according to VDE472-803 Part B, flame-retardant according to IEC 60332.1-2, TPE core insulation.
- Further details: see Data Sheet (on request)
- Signal cables: green (RAL 6018)
- Servo motor cables: orange (RAL 2003)

Approvals (Norm references)

- Cables for power chain usage: For travel distances up to 100m (horizontal)



- Usage in Power Chains: Please comply with the assembly guidelines Appendix T3

Technical Data

Core identification code

Encoder cables - 7072508 (fixed installation)
bk/ye+bk/gn+bk/rd+wt/bl + bk/wt - 7072517 (flexible
installation) gn/ye+bl/rd+gy/pk+bk/vi + bn/wt
Resolver cables: - 7072507 (fixed installation)
black/yellow + black/green + black/red + black/white
- 7072516 (flexible application) green/yellow +
blue/red + grey/pink + brown/white

Approvals

Resolver and encoder cable: UL AWM style 2464
for fixed installation versions, style 20940 for high
flexibility applications.

Motor cable: UL AWM style 2570 for fixed
installation version, style 20940 for high flexibility
use.

Minimum bending radius

Flexible use: 10 x outer diameter
Fixed installation: 7.5 x cable diameter

Rated voltage

Resolver and encoder cable: 30 V (VDE), 300 V (UL/CSA)
Motor cable: - Power cores: 0.6/1000 V (VDE), 600 V
(UL/CSA).

Test voltage

Resolver and encoder cable: 1.5 kV
Motor cable: - Power cores: 4 kV - Control cores: 2 kV

Range of temperature

Flexing: -5°C up to +70°C
Fixed installation: -40°C up to +80°C

Article List

Part number	Number of cores and mm ² per conductor	Outer diameter in mm	Copper index kg/km	Weight kg/km
Motor cables for fixed installation				
7072500	4 G 1,0 + (2 x 0,5)	10.0	81.0	128
7072501	4 G 1,5 + (2 x 0,5)	11.2	106.0	173
7072502	4 G 2,5 + (2 x 0,5)	12.3	153.0	244
Resolver & encoder cables for fixed installation				
7072507	3 x (2 x 0,14) + 1 x (2 x 0,5)	9.3	43.0	91
7072508	4 x (2 x 0,14) + 1 x (2 x 1,0)	11.0	65.0	136
Motor cables for power chain application				



7072509	4 G 1,0 + (2 x 0,5)	10.5	81.0	151
7072510	4 G 1,5 + (2 x 0,5)	12.1	106.0	192
7072511	4 G 2,5 + (2 x 0,5)	13.2	153.0	271
7072512	4 G 4 + (2 x 1,0)	14.6	235.0	373
7072513	4 G 6 + (2 x 1,0)	16.8	316.0	477
7072514	4 G 10 + (2 x 1,0)	20.1	513.0	710
7072515	4 G 16 + (2 x 1,0)	23.8	710.0	1015
Resolver & encoder cable for power chain application				
7072516	3 x (2 x 0,14) + 1 x (2 x 0,5)	10.0	44.0	107
7072517	4 x (2 x 0,14) + 1 x (2 x 1,0)	11.5	65.0	145

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.