



SERVO cables in acc. to LENZE® Standard

Motor and resolver/encoder cables - certified



Benefits

- Motor cables with low-capacitance
- Multi-standard certification reduces part varieties and saves costs

Application range

- Connecting cable between servo controller and encoder/resolver
- Connecting cable between servo controller and motor
- Plant engineering
- Assembly lines, production lines, in all kinds of machines

Norm references / Approvals

- Resolver and encoder cable:
 - UL AWM Style 2464 for fixed installation versions,
 - UL AWM Style 21165 for highly flexible applications,
 - CSA AWM I/II A/B
- Motor cable:
 - UL AWM Style 2570 for fixed installation version,
 - UL AWM Style 20940 for high flexibility use,
 - CSA AWM I/II A/B
- UL File No. E63634
- For use in power chains: Please comply with assembly guideline Appendix T3

Product Make-up

- Design according to LENZE® standard:
- Designs for fixed installation:
 - PVC outer sheath, PP core insulation.
- Designs for highly flexible use:
 - PUR outer sheath, TPE core insulation
- Refer to data sheet for more details
- Signal cables: green (RAL 6018)
- Servo cable: orange (RAL 2003)



Info

- Servo drives
- For static or highly flexible use
- EMC-compliant

Technical data



Classification ETIM 5/6
 ETIM 5.0/6.0 Class-ID: EC000104
 ETIM 5.0/6.0 Class-Description:
 Control cable



Core identification code
 Encoder cables
 - 7072508 (fixed installation)
 bk/ye+bk/gn+bk/rd+bk/bu+bk/wh
 - 7072517 (flexible use)
 gn/ye+bu/rd+gy/pk+bk/vt+bn/wh
 Resolver cables:
 - 7072507 (fixed installation)
 bk/ye+bk/gn+bk/rd+bk/wh
 - 7072516 (flexible use)
 gn/ye+bu/rd+gy/pk+bn/wh



Minimum bending radius
 Flexible use: 10 x outer diameter
 Fixed installation: 7.5 x outer diameter



Nominal voltage
 Signal cables:
 30 V (VDE), 300 V (UL/CSA)
 Power cables:
 - Power cores:
 U0/U 0.6/1 kV (VDE),
 600 V (UL/CSA)
 - Control cores:
 24 V (VDE)
 600 V (UL/CSA)



Test voltage
 Signal cable: 1.5 kV
 Motor cable:
 - Power cores: 4 kV
 - Control cores: 2 kV



Protective conductor
 G = with GN-YE protective conductor



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

Article number	Number of cores and mm ² per conductor	Outer diameter [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	128
7072501	4 G 1,5 + (2 x 0,5)	11.2	106	173
7072502	4 G 2,5 + (2 x 0,5)	12.3	153	244
Screened encoder cable with PVC outer sheath for static use				
7072507	3 x (2 x 0,14) + 1 x (2 x 0,5)	9.3	43	91
7072508	4 x (2 x 0,14) + 1 x (2 x 1,0)	11.0	65	136
Motor cables for power chain application				
7072509	4 G 1,0 + (2 x 0,5)	10.0	81	151

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
7072510	4 G 1,5 + (2 x 0,5)	11.5	106	192
7072511	4 G 2,5 + (2 x 0,5)	13.2	153	271
7072512	4 G 4 + (2 x 1,0)	14.6	235	373
7072513	4 G 6 + (2 x 1,0)	16.8	316	477
7072514	4 G 10 + (2 x 1,0)	20.1	513	710
7072515	4 G 16 + (2 x 1,0)	23.8	710	1015
Resolver & encoder cable for power chain applications				
7072516	3 x (2 x 0,14) + 1 x (2 x 0,5)	10.0		107
7072517	4 x (2 x 0,14) + 1 x (2 x 1,0)	11.5	65	145

Unless specified otherwise, the shown product values are nominal values at room temperature. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100 kg. 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).

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Cables for power chain use should only be handled on drums prior to installation.

Article numbers refer to genuine Lapp products.

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Accessories

- Circular connectors
- EMC