



SERVO cables in acc. to LENZE® Standard

Motor and resolver/encoder cables - certified

Info

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



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)

Technical data

Classification
 ETIM 5.0 Class-ID: EC000104
 ETIM 5.0 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	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	65	136
Motor cables for power chain application				
7072509	4 G 1,0 + (2 x 0,5)	10	81	151
7072510	4 G 1,5 + (2 x 0,5)	11,5	106	192

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
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	44	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. 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).
 Lenze® part designations (EWLM_, EWL_R_, EWLE_, EWLL_, EYL und EYP) are registered trademarks of Lenze® AG, and are listed for comparison purposes only. DESINA® is a registered trademark of the German Machine Tool Builders' Association.
 Cables for power chain use should only be handled on drums prior to installation.
 Article numbers refer to genuine Lapp products.
 Photographs are not to scale and do not represent detailed images of the respective products.

Accessories

- Circular connectors
- SKINTOP® EMC/Earthing