



Motor and resolver/encoder cables

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

- Servo drives
- EMC-compliant



Product description

Application range

- Connecting cable between servo controller and encoder/resolver
- Connecting cable between servo controller and motor
- Plant engineering
- Particularly in wet areas of machine tools and transfer lines
- Assembly lines, production lines, in all kinds of machines

Benefits

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

Product Make-up

- Design according to LENZE® standard:
- Designs for fixed installation: PVC outer sheath, flame-retardant in accordance with IEC 332.1, UL/CSA-approved PP core insulation.
- Designs for highly flexible use: oil-resistant PUR sheath in accordance with VDE472-803 Part B, flame-retardant in accordance with IEC 60332.1-2, TPE core insulation.
- Refer to data sheet (available upon request) for more details
- Signal cables: green (RAL 6018)
- Servo cable: orange (RAL 2003)

Norm references / Approvals

- Resolver and encoder cable:
UL AWM Style 2464 for fixed installation versions, Style 21165 for highly flexible applications.
- Motor cable:
UL AWM Style 2570 for fixed installation version; Style 20940 for high flexibility use.
- Designed for power chain use: for travel distances up to 100 m (horizontal)
- For use in power chains: Please comply with the assembly guidelines listed in Appendix T3
- UL File No. E63634

Technical Data

Core identification code	Encoder cables - 7072508 (fixed installation) bk/ye+bk/gn+bk/rd+bk/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
Minimum bending radius	Flexible use: 10 x outer diameter Fixed installation: 7.5 x cable diameter
Nominal voltage	Resolver and encoder cable: 30 V (VDE), 300 V (UL/CSA) Motor cable: Power cores: U_0/U 0.6/1 kV (VDE), 600 V (UL/CSA)
Test voltage	Resolver and encoder cable: 1.5 kV Motor cable: - Power cores: 4 kV - Control cores: 2 kV
Temperature range	Flexing: -5°C to +70°C Fixed installation: -40°C to +80°C