

Super-flexible servo motor connection cables for power chains for the European and North American markets

Product Description

Multi-Standard= less part varieties= cost savings; Can also be used mobile outdoors



Application range

- Connecting cable between servo controller and motor
- Connecting cable between Frequency converter 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

- Multi-Standard= less part varieties= cost savings
- Can also be used mobile outdoors

Design

- Extra fine strands of plain copper wires (Class 6)
- Core insulation: TPE
- Depending on design, cores together, without, with one or with two double screened control core pairs, twisted together in short lay lengths
- Nonwoven wrapping
- tinned copper braid
- Polyurethane sheath (PUR), orange (RAL 2003)
- Conform to DESINA®

Approvals (Norm references)

- For travel distances up to 100 m (horizontal)
- Usage in Power Chains: Please comply with the assembly guidelines Appendix T3
- USA: Acc. NFPA79 Ed 08 in industrial machinery as part of a listed assembly only.



- Conform to DESINA®

Product features

- Designed for up to 5 million bending change cycles in the power chain
- Abrasion and cut resistant
- Oil resistant
- Flame retardant acc. IEC 60332-1-2 & CSA FT1
- Flexible down to -40 °C

Cross-References

Accessories

SILVYN® CHAIN Cable protection and guiding systems

Technical Data

Core identification code

Black with white numbers acc. to VDE 0293

Approvals

Without control cores: UL AWM Style 20234

With control pairs UL-AWM-Style 20235

Based on

VDE 0250/0281/0282

Specific insulation resistance

> 20 GOhm x cm

Conductor stranding

Extra fine wire in acc. to VDE 0295 Cl.6 / IEC 60228 Cl.6

Minimum bending radius

For flexible applications: 7.5 x outside diameter

Fixed installation: 5 x outer diameter

Rated voltage

IEC: power cores: 600/1000 V Control cores: U: 250 V AC

UL: with control pairs: 600V without control pairs: depends on its final application

Test voltage

Cores: C/C: 4000 V

Control core pairs: C/C-C/S: 1000/750 V

Protective conductor

G = with protective conductor GN/YE

Range of temperature

Flexing: -40°C up to +80°C

Fixed installation: -50°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 |
|-------------|---|----------------------|--------------------|--------------|
| 0037060 | 4 G 1,5 + (2 x 1,0) | 14.0 | 140.3 | 276 |
| 0037061 | 4 G 2,5 + (2 x 1,0) | 14.5 | 179.8 | 323 |
| 0037062 | 4 G 4 + (2 x 1,0) | 15.8 | 263.0 | 436 |
| 0037064 | 4 G 10 + (2 x 1,0) | 22.6 | 547.6 | 875 |
| 0037067 | 4 G 35 + (2 x 1,5) | 33.4 | 1640.0 | 2264 |
| 0037070 | 4 G 4 + (2 x 0,75) + (2 x 1,0) | 17.6 | 281.4 | 499 |
| 0037072 | 4 G 10 + (2 x 0,75 + 2 x 1,0) | 23.2 | 579.8 | 962 |
| 0037074 | 4 G 25 + (2 x 2 x 1,5) | 31.8 | 1271.0 | 1897 |
| 0037078 | 4 G 6 | 15.4 | 298.7 | 453 |
| 0037080 | 4 G 16 | 26.9 | 763.9 | 1227 |
| 0037081 | 4 G 25 | 30.6 | 1177.5 | 1774 |
| 0037082 | 4 G 35 | 34.5 | 1594.0 | 2354 |

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 ≤ 30 kg and ≤ 250 m, otherwise drum

Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

Photographs are not to scale and do not represent detailed images of the respective products.