

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
- Polyurethane sheath (PUR), black (RAL 9005)

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 according to VDE 0295 Class 6 /
IEC 60228 Class 6

Minimum bending radius

For flexible applications: 5 x outer diameter

Fixed installation: 3 x outer diameter

Rated voltage

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

UL:with control pairs: 600Vwithout control pairs: depends
on its final application

Test voltage

Cores: 4000 V

Control cores: 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
3028268	4G 1,5 + (2 x 1,0)	13.0	81.4	166
3028269	4G 2,5 + (2 x 1,0)	13.4	119.8	185
3028270	4G 4 + (2 x 1,0)	14.8	177.4	243
3028271	4G 6 + (2 x 1,0)	16.4	254.2	292
3028272	4G 10 + (2 x 1,0)	20.8	412.4	690
3028479	4'G 0,75	9.7	28.8	103
3028277	4 G 2,5	11.7	96.0	191
3028278	4 G 4	13.7	153.6	278
3028279	4 G 6	15.1	230.4	376
3028281	4 G 16	26.5	614.4	1058
3028282	4 G 25	30.5	960.0	1535
3028283	4 G 35	34.5	1344.0	2035

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.