

Highlyflexible servo motor connection cables for power chains for the European and North American markets

### Product Description

Multi-Standard= less part varieties= cost savings; Reasonable price-performance ratio

LAPP KABEL STUTTGART ÖLFLEX® SERVO FD 790 CP CE



### 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
- Reasonable price-performance ratio

### Design

- Extra fine strands of plain copper wires (Class 6)
- Core insulation: PVC
- 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 10 m.
- 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

### 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

UL-AWM-Style 20235 with control pairs Based on:  
VDE 0250, 0281, 0282

#### Based on

VDE 0245, 0250, 0281

#### 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: 12 x outer diameter

Static: 4 x cable diameter

#### Rated voltage

IEC: power cores: 600/1000 V Control cores: U: 300 V  
UL: with control pairs: 600V without 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: 0°C up to +80°C

Fixed installation: -40°C up to +80°C

**Article List**

Part number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter in mm	Copper index kg/km	Weight kg/km
0037030	4 G 1,5	9.7	87.1	153
0037031	4 G 2,5	11.2	135.0	219
0037032	4 G 4	12.7	197.5	301
0037033	4 G 6	14.9	298.3	437
0037034	4 G 10	18.7	472.3	675
0037035	4 G 16	24.2	751.9	1106
0037036	4 G 25	27.9	1161.6	1628
0037037	4 G 35	33.0	1576.1	2186
0037038	4 G 50	39.1	1967.2	3126
0037042	4 G 1,5 + 2 x (2 x 0,75)	15.3	177.9	397
0037043	4 G 2,5 + 2 x (2 x 0,75)	15.3	215.8	455
0037044	4 G 4,0 + (2 x 0,75) + (2 x 1,0)	16.8	294.8	576
0037046	4 G 10 + (2 x 0,75 + 2 x 1,0)	21.9	573.3	970
0037047	4 G 16 + (2 x 2 x 1,0)	26.3	835.6	1347
0037051	4 G 1,5 + (2 x 1,0)	14.0	159.8	340
0037052	4 G 2,5 + (2 x 1,0)	14.8	200.5	404
0037053	4 G 4 + (2 x 1,0)	15.9	265.3	496
0037054	4 G 6 + (2 x 1,0)	17.5	351.2	634
0037055	4 G 10 + (2 x 1,0)	21.0	536.9	836
0037056	4 G 16 + (2 x 1,5)	26.6	826.2	1320

**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](http://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.