

Encoder and resolver cables

Product Description

Thin, weight- and volume-optimised; Total screening prevents/reduces interference from neighbouring cables; Can also be used mobile outdoors; halogen free

LAPP KABEL STUTTGART ÖLFLEX® SERVO FD 770 CP CE



Application range

- 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

- Thin, weight- and volume-optimised
- Total screening prevents/reduces interference from neighbouring cables
- Can also be used mobile outdoors
- halogen free

Design

- Extra fine strands of plain copper wires (Class 6)
- Core insulation: TPE
- Cores (or core pairs) twisted in layers or bundles
- Nonwoven wrapping
- Tinned copper screen braiding (*with drain wire)
- Polyurethane sheath (PUR), grey (RAL 7001)

Approvals (Norm references)

- For travel distances up to 100 m (horizontal)
- Usage in Power Chains: Please comply with the assembly guidelines Appendix T3

Product features

- Designed for up to 5 million bending change cycles in the power chain



- Abrasion and cut resistant
- Oil resistant
- Flame retardant according to IEC 60332-1-2
- Flexible down to -40 °C

Cross-References

Accessories

SILVYN® CHAIN Cable protection and guiding systems

Technical Data

Core identification code

0036 270 pairs: rd/bk, bn/gn, gy/pk, bu/vt
single core: wh, bn, bu, bk 0036 280 pairs: wh/bn,
gn/ye, gy/pk, bu/rd, bk/vt, gy-pk/rd-bu
single core: wh, bn 0036 275 cores 0.14: wh, bn, gn,
ye, gy, pk, bu, rd, bk, vt
cores 0.5: wh, bn 0036 277 cores 0.14: wh,
bn, gn, ye, gy, pk, bu, rd, bk, vt
single cores: wh, bn 0036 642 pairs 0.38mm² rd-or,
bu-vt, bk-bn, ye-gn, cores 0.5mm² bk/wh, rd/wh,
bu/wh, ye/wh
0036 641 see 0036 269 0036 278 single cores:
cores 0.14 DIN 47100 from grey: 0.5 mm²: wh, bn,
gn, ye 0036 281 pairs: rd-bk, bn-gn, ye-vt, gy-pk
single core.: wh, bu, whgn, bngn 0036 268 pairs:
gn-ye, rd-bu, gy-pk
single core: wh, bn 0036 269: 0.14 mm² ye, gn, rd,
or, bk, bn, gy, bu, wh-bk, wh-ye. 0.22 mm²: bn-ye,
gn-rd, gn-bk, bn-gy. 0.5mm²: bn-rd, bn-bu

Based on

Core in accordance with VDE 0812/0281
Sheath according to VDE 0250/0282

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: 12 x outer diameter
Static: 4 x cable diameter

Rated voltage

48 V AC
Operating peak voltage: 350 V Upp (not for power
applications)

Test voltage

C/C-C/S 2000 - 1000 V

Range of temperature

Flexing: -40°C up to +75°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
0036270	4 x 2 x 0,25 + 2 x 1,0	8.9	72.0	122
0036280	6 x 2 x 0,25 + 2 x 0,5	10.3	87.0	152
0036275	10 x 0,14 + 2 x 0,5	7.7	39.3	82
0036277	10 x 0,14 + 4 x 0,5	8.1	51.1	97
0036278	15 x 0,14 + 4 x 0,5	8.7	59.3	113
0036281	4 x 2 x 0,14 + 4 x 0,5	8.2	48.8	91
0036268	3 x (2 x 0,14) + 2 x (0,5)	8.2	60.0	122.7
0036269	3 x (2 x 0,14) + (2 x 0,14 + 2 x 0,5) + (4 x 0,22 + 2 x 0,14)	10.0	86.0	111

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.