

Encoder and resolver cables, DESINA® green

### 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 DESINA®



### 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), green (RAL 6018)

### 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

see 770 CP

#### Based on

Core in accordance with VDE 0812/0281  
KRT Standard version with UL-approval for multi-wire copper conductors with a cross-section range of 10-400 mm<sup>2</sup>.

#### 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: 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 <sup>2</sup> per conductor	Outer diameter in mm	Copper index kg/km	Weight kg/km
0036640	2 x 2 x 0,14 + 2 x (2 x 0,14) + 4 x 0,5 + (4 x 0,14)	8.1	65.4	105
0036641	3 x (2 x 0,14) + (2x 0,14 + 2 x 0,5) + (4 x 0,22 + 2 x 0,14)	10.0	86.0	111
0036642	4 x 2 x 0,38 + 4 x 0,5	9.8	84.2	144



0036901	4 x 2 x 0,25	7.4	43.2	89
---------	--------------	-----	------	----

**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  $\leq$  30 kg and  $\leq$  250 m, otherwise drum

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

DESINA® is a registered trademark of the Association of German Machine Tool Manufacturers

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