

Sensor leads for signal transmission systems and Motor connection cables

Product Description

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



Application range

- Connecting cable between servo controller and encoder / resolver
- Connecting cable between servo controller 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

- In accordance with Indramat standard INK (also suitable for pre-assembled versions, IKS and IKG).
- Core insulation: TPE
- Further details: see Data Sheet (on request)
- tinned copper braid
- Polyurethane sheath (PUR), orange (RAL 2003)

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.



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
- halogen free

Cross-References

Accessories

SILVYN® CHAIN Cable protection and guiding systems

Technical Data

Approvals

Power cables: UL style 20234

Signal cables: UL style 20236

Conductor stranding

Extra fine strands in acc. with IEC60228 Class 6

Minimum bending radius

Power cable: Fixed installation: 4 x outer diameter

For flexible use: 7,5 x external diameter

Signal cables: Fixed installation: 5 x outer diameter

for flexible use: 10 x D

Rated voltage

Power cable: Cores: 600/1000 V Control cores: 250 V/AC

Signal cables: 300 Vpp

Test voltage

Power cables: Cores: 4000 V eff. Control cores: 500 V eff

Signal cables: 500 V rms

Range of temperature

Power cables: Fixed installation: -50 °C to +80 °C Moving: -30°C to +80 °C

Signal cables: Fixed installation: -40°C up to +80°C

Moved: -10°C up to +80°C

Article List

Part number	Number of cores and mm ² per conductor	Reference item no.	Outer diameter in mm	Copper index kg/km	Weight kg/km
Feedback / encoder / resolver cables					
7072400	4 x 2 x 0,25 + 2 x 1,0	INK-0209	8.8	74.0	120



7072401	4 x 2 x 0,25 + 2 x 0,5	INK-0448	8.5	70.0	100
7072402	9 x 0,5	INK-0208	8.8	75.0	126
7072414	4 x 1,0 + 4 x 2 x 0,14 + 4 x 0,14	INK-0532	9.7	81.0	140
7072415	2 x (2 x 0,25) + 2 x 0,5	INK-0234	8.7	46.0	90
7072416	2 x 2 x 0,25 + 2 x 0,5	INK-0750	7.6	35.0	92
Servo cables					
7072417	4 G 0,75 + 2 x 0,5	INK-0670	10.0	73.0	132
7072403	4 G 1,0 + 2 x (2 x 0,75)	INK-0653	11.5	170.0	226
7072404	4 G 1,5 + 2 x (2 x 0,75)	INK-0650	12.2	189.0	268
7072405	4 G 2,5 + 2 x (2 x 1,0)	INK-0602	15.1	212.0	320
7072406	4 G 4 + (2 x 1,0) + (2 x 1,5)	INK-0603	16.0	306.0	470
7072407	4 G 6 + (2 x 1,0) + (2 x 1,5)	INK-0604	18.8	366.0	600
7072408	4 G 10 + (2 x 1,0) + (2 x 1,5)	INK-0605	22.0	565.0	850
7072409	4 G 16 + 2 x (2 x 1,5)	INK-0606	25.2	838.0	1020
7072410	4 G 25 + 2 x (2 x 1,5)	INK-0607	28.0	1231.0	1420

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)

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FD-cables for powerchain use (continuous flexing) should only be handled on drums prior to installation.

Part number refers to genuine LAPP part

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