



DATA SHEET	7072400
LK SMS – INX Servo Cables acc to Indramat¹⁾ Standard INK¹⁾	Valid up from : May.3 th . 2012

Application

LAPP servo cables according to Indramat¹⁾ Standard INK¹⁾ are highly flexible screened servo drive cables (Art-Nr: 7072403 to 7072412 & 7072417), and encoder and resolver cables (Art-Nr: 7072400 to 7072402 and 7072414 up to 7072416), with PUR outer sheath and UL/CSA AWM approvals. They are suitable for highly flexible use in power chains and also for static use. These cables are generally used for the interconnection between frequency converters and servo drives. Typical kind of application: in machine tools, production plants, car body presses, transfer lines... Those cables can be used in dry and damp areas and also outdoor provided the recommended temperatures of use are respected. Usage of these cables in moving cable carriers, respectively on motor drum guidance or under a strain of more than 15 N/mm² is not allowed. SERVO LK INX cables are increased oil-resistant, halogen-free and free of lacquer destructive substances.

Technical Data

Conductor	Bare copper, extra fine wire stranding in acc. to IEC 60228 Class 6.	
Core insulation	TPE-E compound (Motor and servo cables) PP / TPE compound (Resolver and encoder cables)	
Core Identification	Servomotor cables: Power: Black cores with white printing (1,2,3) and GNYE protective conductor Control cores: black with white printing 5-6 and 7-8	
Core Identification	Signal cables: see additional P/N -individual information of that data sheet	
Overall screening	All cables having braids, made of tinned copper wires, optical coverage > 80%	
Outer sheath	PUR compound TMPU in acc. to HD 22.10 S1, flame retardant, oil-resistant acc. to VDE 0473-811-2-1, colour Orange (RAL 2003)	
Rated Voltage	Power cable: Power cores: 600/1000 V (IEC) 1000 V (UL) Control cores: 250 V AC (IEC) 1000 V (UL/CSA)	Signal cables: 300/300 V (IEC) 300 V (UL/CSA)
Test voltage	Power cables: 4kV (control cores: 2kV) Signal cables: 500 V	
Temp. range	Flexible use: -30°C up to +80°C max. conductor temperature Static use: -50°C up to +80°C max. conductor temperature	
Min. bending radius	for flexible use in non-supported power chains: 7,5 x outer diameter (below 70°C) for flexible use in horizontal operating chains, where the upper part is gliding on top of the lower part: 10 x outer diameter For static use: 5 x outer diameter	
Oil resistance	acc. to DINEN 60 811-2-1 (VDE 0473-811-2-1)	
Flame retardant	vertical flame test in acc. to UL1581§1061 FT1, IEC60332.1-2	
Approvals	Power cables: UL AWM Style 20234, CSA AWM I/II A/B Signal cables: UL AWM Style 20236, CSA AWM I/II A/B	

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EU directive Conform to 2006/95 EU -directive (low voltage directive).

Additional data P/N 7072400 **4x2x0,25 + 2x1,0** **INK0209¹⁾**

Cond. Id. code 4x2x0.25 mm² brown+green, grey+pink, blue+violet, red+black
2x1.0mm² white, brown

Overall screen Tinned copper braid, coverage > 80%

Outer sheath Polyurethane – Colour: Orange (RAL 2003)

Outer diameter approx. 8.8 mm

Imprint Legend:

LAPP KABEL STUTTGART SERVO LK INX 4x2x0,25+2x1,0 --- E63634  AWM 80°C 300V – 214533M CSA
AWM I/II A/B 75°C 300V FT1 ROHS CE Art.7072400

Additional data P/N 7072401 **4x2x0,25 + 2x0,5** **INK 0448¹⁾**

Cond. Id. code 4x2x0.25: brown+green, grey+pink, blue+violet, red+black
2x0.5: white, brown

Overall screen Tinned copper braid, coverage > 80%

Outer sheath Polyurethane – Colour: Orange (RAL 2003)

Outer diameter approx. 8.5 mm

Imprint Legend:

LAPP KABEL STUTTGART SERVO LK INX 4x2x0,25+2x0,50 --- E63634  AWM 80°C 300V – 214533M CSA
AWM I/II A/B 75°C 300V FT1 ROHS CE Art.7072401

Additional data P/N 7072402 **9x0,5** **INK 0208¹⁾**

Cond. Id. code 9x0,5: green, brown, grey, yellow, black, blue, red, white, pink

Overall screen Tinned copper braid, coverage > 80%

Outer sheath Polyurethane – Colour: Orange (RAL 2003)

Outer diameter approx. 8.8 mm

Imprint Legend:

LAPP KABEL STUTTGART SERVO LK INX 9x0,50 --- E63634  AWM 80°C 300V – 214533M CSA AWM I/II
A/B 75°C 300V FT1 ROHS CE Art.7072402

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Additional data P/N 7072414 **4x2x0,14+4x1+(4x0,14)StC** **INK 0532¹⁾**

Cond. Id. code	4x2x0.14: red+black, brown+green, yellow+violet, gray+pink 4 x 1.0: white, browngreen, whitegreen, blue (4x0.14): yellowblack, blueblack, greenblack, redblack
Quad screen	(4x0.14) StC : Metallised foil and & tinned copper braid, coverage > 80%
Overall screen	Tinned copper braid, coverage > 80%
Outer sheath	Polyurethane – Colour: Orange (RAL 2003)
Outer diameter	approx. 9.7 mm

Imprint Legend:

LAPP KABEL STUTTGART SERVO LK INX 4x2x0,14+4x1,0+/(4x0,14) --- E63634  AWM 80°C 300V – 214533M CSA AWM I/II A/B 75°C 300V FT1 ROHS CE Art.7072414

Additional data P/N 7072415 **2x(2x0,25)StC+2x0,5** **INK 0234¹⁾**

Cond. Id. code	2x(2x0.25): white+brown, green+yellow 2 x 0.5: pink, grey
Pair screen	(2x0,25) StC : Metallised foil and & tinned copper braid, coverage > 80%
Overall screen	Tinned copper braid, coverage > 80% Stranded drain wire under braid
Outer sheath	Polyurethane – Colour: Orange (RAL 2003)
Outer diameter	approx. 8.7 mm

Imprint Legend:

LAPP KABEL STUTTGART SERVO LK INX 2x(2x0,25)+2x0,50 --- E63634  AWM 80°C 300V – 214533M CSA AWM I/II A/B 75°C 300V FT1 ROHS CE Art.7072415

Additional data P/N 7072416 **2x2x0,25+2x0,5** **INK 0750¹⁾**

Cond. Id. code	2x2x0.25: red+black, gray+pink 2 x 0.5: white, brown
Overall screen	Tinned copper braid, coverage > 85% Stranded drain wire under braid
Outer sheath	Polyurethane – Colour: Orange (RAL 2003)
Outer diameter	approx. 7.3 mm

Imprint Legend:

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AWM I/II A/B 75°C 300V FT1 ROHS CE Art.7072416

¹⁾ Indramat and Indramat P/Ns are registered trademarks of Bosch-Rexroth Germany, here used for comparing purpose only.

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