


7072400	DATA SHEET	
Valid from: 04.04.2019	LK SMS – INX Servo Cables acc. to Indramat¹⁾ Standard INK¹⁾	


Application

LAPP servo cables according to Indramat¹⁾ Standard INK¹⁾ are highly flexible screened servo drive cables (P/N: 7072403 thru 7072412 and 7072417), and encoder and resolver cables (P/N: 7072400 thru 7072402 as well as 7072414 thru 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 outdoors, 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 have increased oil resistance, and are halogen-free and free of PWIS – Paint-Wetting Impairment Substances.

Technical Data


Conductor	bare copper, extra-fine wire stranding 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 cores	black cores w/ white printing (1,2,3) and GNYE protective conductor
	control cores	black with white printing 5-6 and 7-8
	Signal cables	see part-related data below
Overall screening	braided made of tinned copper wires optical coverage	>80 %
Outer sheath	PUR compound TPU acc. to HD 22.10 colour	flame retardant oil resistant acc. VDE 0473-811-2-1 orange (similar to RAL 2003)
Rated Voltage	Power cable	Signal cables
	power cores	300/300 V AC (IEC) 300 V (UL/CSA)
	control cores	
	600/1000 V AC (IEC) 1000 V (UL) 250 V AC (IEC) 1000 V (UL/CSA)	
Test voltage	Power cables	4000 V (control cores 2000 V)
	Signal cables	500 V
Conductor temperature range	flexible use static use	-30 °C up to +80 °C -50 °C up to +80 °C
Min. bend radius	in self-supporting power chains, <70 °C in horizontal, sliding power chains stationary use	7.5 x outer cable diameter 10 x outer cable diameter 5 x outer cable diameter
Oil resistance	DIN EN 60811-2-1 (VDE 0473-811-2-1)	
Flame retardance	vertical flame test acc. to UL1581§1061 FT1 IEC60332-1-2	

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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
EU Directive	conforms to 2014/35/EU (LVD – EU Low-Voltage Directive)	


Additional data P/N 7072400:	4x2x0,25 + 2x1,0	INK0209¹⁾
Conductor identification code	4x2x0.25 mm ²	brown+green grey+pink blue+violet red+black
	2x1 mm ²	white brown
Overall screen	tinned copper braid optic coverage	>80 %
Outer sheath	TMPU / PUR / polyurethane colour	orange (similar to 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⁾
Conductor identification code	4x2x0.25	brown+green grey+pink blue+violet red+black
	2x0.5	white brown
Overall screen	tinned copper braid optic coverage	>80 %
Outer sheath	TMPU / PUR / polyurethane colour	orange (similar to 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


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Additional data P/N 7072402:	9x0,5	INK 0208¹⁾
Conductor identification code	9x0.5	green brown grey yellow black blue red white pink
Overall screen	tinned copper braid optic coverage	>80 %
Outer sheath	TMPU / PUR / polyurethane colour	orange (similar to 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

Additional data P/N 7072414:	4x2x0,14+4x1+(4x0,14)StC	INK 0532¹⁾
Conductor identification code	4x2x0.14	red+black brown+green yellow+violet grey+pink
	4x1	white brown-green white-green blue
	(4x0.14)	yellow-black blue-black green-black red-black
Quad screen	(4x0.14)StC	metallized foil and tinned copper braid optic coverage >80 %
Overall screen	tinned copper braid optic coverage	>80 %
Outer sheath	TMPU / PUR / polyurethane colour	orange (similar to 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

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Additional data P/N 70724 15:	2x(2x0,25)StC+2x0,5	INK 0234¹⁾
Conductor identification code	2x(2x0.25)	white+brown green+yellow
	2x0.5	pink grey
Pair screen	(2x0,25)StC	metallized foil and tinned copper braid optic coverage >80 %
Overall screen	tinned copper braid optic coverage stranded drain wire under braid	>80 %
Outer sheath	TMPU / PUR / polyurethane colour	orange (similar to 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 70724 16:	2x2x0,25+2x0,5	INK 0750¹⁾
Conductor identification code	2x2x0.25	red+black grey+pink
	2x0.5	white brown
Overall screen	tinned copper braid optic coverage stranded drain wire under braid	>85 %
Outer sheath	TMPU / PUR / polyurethane colour	orange (similar to RAL 2003)
Outer diameter	approx. 7.3 mm	

Imprint legend

LAPP KABEL **STUTTGART** SERVO LK INX 2x2x0,25+2x0,50 — E63634  AWM 80°C 300V – 214533M CSA 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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