

SERVO cables in acc. to INDRAMAT® Standard INK

Motor and resolver/encoder cables - certified

Servomotor- and feedback cables in acc. to INDRAMAT® standard, for dynamic power chain application, UL/CSA AWM certified

Info

Servo drives
PUR outer sheath
EMC-compliant



Halogen-free



Mechanical resistance



Oil-resistant



Power chain



Interference signals



UV-resistant

Benefits

Allows much faster speed and accelerations which increases the economic efficiency of the machines

Multi-standard certification reduces part varieties and saves costs

Increased durability under harsh conditions thanks to robust PUR outer sheath

Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media

Last Update (02.09.2020)

©2020 Lapp Group - Technical changes reserved

Product Management www.lappkabel.de

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02_03.16

SERVO cables in acc. to INDRAMAT® Standard INK

Application range

Connecting cable between servo controller and encoder/resolver
Connecting cable between servo controller and motor
Particularly in wet areas of machine tools and transfer lines
Assembly lines, production lines, in all kinds of machines

Product features

Designed for 5 million alternating bending cycles
For horizontal travel distances up to 100m
Abrasion and cut-resistant, halogen-free, oil-resistant
Flame-retardant according to IEC 60332-1-2 & CSA FT1

Norm references / Approvals

Power cable:
UL Style 20234, CSA AWM I/II A/B
Signal cables:
UL Style 20236, CSA AWM I/II A/B
UL File No. E63634
For use in power chains: Please comply with assembly guideline Appendix T3

Product Make-up

In accordance with INDRAMAT® standard INK (also suitable for pre-assembled versions, IKS and IKG)
Core insulation: TPE
Refer to data sheet for more details
Tinned-copper braiding
PUR outer sheath, orange (RAL 2003)

Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000104 ETIM 6.0 Class-Description: Control cable
Core identification code:	Details see datasheet
Conductor stranding:	Extra-fine wire according to IEC 60228 class 6
Minimum bending radius:	Power cable: Fixed installation: 4 x outer diameter For flexible use: 7.5 x outer diameter Signal cables: Fixed installation: 5 x outer diameter For flexible use: 10 x outer diameter
Nominal voltage:	Power cable: - Power cores: U0/U 600/1000 V (IEC) 1000 V (UL/CSA) - Control cores: 250 V AC (IEC) 1000 V (UL/CSA) Signal cables: 300 V (IEC), 300 V (UL/CSA)
Test voltage:	Power cable: Power cores: 4000 V

Last Update (02.09.2020)

©2020 Lapp Group - Technical changes reserved

Product Management www.lappkabel.de

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02_03.16

SERVO cables in acc. to INDRAMAT® Standard INK

	Control cores: 2000 V
	Signal cables: 500 V
Protective conductor:	G = with GN-YE protective conductor
Temperature range:	Flexing: -30 °C to +80 °C Fixed installation: -50 °C to +80 °C
Bending cycles & operation parameters:	5 mio. cycles

Note

Unless specified otherwise, the shown product values are nominal values at room temperature. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

Indramat part designations (IKG, IKS, INK, INS, RKL and RKG) are registered trademarks of Bosch Rexroth AG, and are listed for comparison purposes only.

Cables for power chain use should only be handled on drums prior to installation.

Article numbers refer to genuine Lapp products.

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

Prices are net prices without VAT and surcharges. Sale to business customers only.

SERVO cables in acc. to INDRAMAT® Standard INK

Article number	Number of cores and mm ² per conductor	Reference article no.	Outer diameter [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	120
7072401	4 x 2 x 0,25 + 2 x 0,5	INK-0448	8.5	70	100
7072402	9 x 0,5	INK-0208	8.8	75	126
7072414	4 x 1,0 + 4 x 2 x 0,14 + (4 x 0,14)	INK-0532	9.7	81	140
7072415	2 x (2 x 0,25) + 2 x 0,5	INK-0234	8.7	46	90
7072416	2 x 2 x 0,25 + 2 x 0,5	INK-0750	7.6	35	92
Servo cables					
7072417	4 G 0,75 + 2 x 0,5	INK-0670	10.0	73	132
7072403	4 G 1,0 + 2 x (2 x 0,75)	INK-0653	11.5	170	226
7072404	4 G 1,5 + 2 x (2 x 0,75)	INK-0650	12.2	189	268
7072405	4 G 2,5 + 2 x (2 x 1,0)	INK-0602	15.1	212	320
7072406	4 G 4 + (2 x 1,0) + (2 x 1,5)	INK-0603	16.0	306	470
7072407	4 G 6 + (2 x 1,0) + (2 x 1,5)	INK-0604	18.8	366	600
7072408	4 G 10 + (2 x 1,0) + (2 x 1,5)	INK-0605	22.0	565	850
7072409	4 G 16 + 2 x (2 x 1,5)	INK-0606	25.2	838	1020
7072410	4 G 25 + 2 x (2 x 1,5)	INK-0607	28.0	1231	1420

Last Update (02.09.2020)

©2020 Lapp Group - Technical changes reserved

 Product Management www.lappkabel.de

 You can find the current technical data in the corresponding data sheet:
 PN 0456 / 02_03_16