

## SERVO-C-INK Overall Shielded



**SERVO-C-INK** are flexible, oil-resistant, overall shielded, UL/CSA, CE & VDE approved, orange polyurethane power supply and feedback cables all in accordance with Indramat INK® servo-motor cable standards. These highly flexible servo cables are suitable for drag chains and are found mainly in robotics, machine tools, pick & place machines, multi-axis machinery and in material handling equipment. These cables combine the supply cores with the control cores for braking functions. The overall tinned copper braid shield improves protection against electromagnetic & RFI interferences. These cables are ideal for use in precision servomotors used in many highly automated manufacturing processes or where high-quality, reliable and long-lasting servo cables are needed.



### Construction:

- Designed to Indramat INK standards
- Extra-fine bare copper strands
- Strands to VDE-0295 Class-6, IEC 60228 Cl-6
- Special thermoplastic core insulation
- Color code VDE-0293 - black & numbered
- Control cores are black with white numbers
- Four control cores twisted w/ foil & braid shield
- Ground wire in outer layer
- Polyester fiber wrapping over all inners
- 85% tinned copper braid shield
- Special PUR outer jacket - orange (RAL 2003)
- **Extremely oil & chemical resistant**

### Technical:

- Power core voltage: 600/1000 volts
- Control core voltage: 300/500 volts
- Test power voltage: 4000 volts
- Test control voltage: 1000 volts
- Flexing bending radius: 10 x Ø
- Static bending radius: 5 x Ø
- Flexing temp: -40° C to +80° C
- Static temp: -50° C to +90° C
- Flame retardant: IEC 60332.1-2
- Insulation resistance: 20 MΩ x km

### Approvals:

- UL AWM Style 20234 (feedback)
- UL AWM style 20236 (servo-motor)
- CSA AWM II A/B, FT-1
- DESINA
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	DESCRIPTION	INDRAMAT#	NOMINAL OD	CU LBS/MFT	LBS/MFT
<b>FEEDBACK / SIGNAL</b>					
9610209	#24-4/pr & #18-2/c	INK-0209	0.346" / 8.8mm	50	84
9610448	#24-4/pr & #20-2/c	INK-0448	0.335" / 8.5mm	47	80
9610208	#20-9/c	INK-0208	0.346" / 8.8mm	44	85
9610532	#18-4/c & #26-4/pr & #26-4/c	INK-0532	0.382" / 9.7mm	54	94
9610234	#24-2/pr & #20-2/c	INK-0234	0.343" / 8.7mm	31	60
9610750	#26-2/pr & #20-2/c	INK-0750	0.299" / 7.6mm	30	62
<b>SERVO-MOTOR</b>					
9610670	#19-4/c & #20-2/c	INK-0670	0.394" / 10.0mm	73	49
9610653	#18-4/c & #19-2/pr EPS*	INK-0653	0.453" / 11.5mm	114	152
9610650	#16-4/c & #19-2/pr EPS*	INK-0650	0.480" / 12.2mm	127	180
9610602	#14-4/c & #18-2/pr EPS*	INK-0602	0.594" / 15.1mm	142	215
9610603	#12-4/c & #18-1/pr & #16-1/pr EPS*	INK-0603	0.630" / 16.0mm	206	315
9610604	#10-4/c & #18-1/pr & #16-1/pr EPS*	INK-0604	0.740" / 18.8mm	246	402
9610605	#8-4/c & #18-1/pr & 16-1/pr EPS*	INK-0605	0.866" / 22.0mm	380	570
9610606	#6-4/c & #16-2/pr EPS*	INK-0606	0.992" / 25.2mm	450	684
9610607	#4-4/c & #16-2/pr EPS*	INK-0607	1.102" / 28.0mm	655	952
9610667	#2-4/c & #16-2/pr EPS*	INK-0667	1.201" / 30.5mm	1048	1500
9610668	#1-4/c & #14-2/pr EPS*	INK-0668	1.457" / 37.0mm	1478	2046

\* EPS - each pair has individual foil & tinned copper braid shield.

\*\* Indramat INK part numbers are a registered trademark of Bosch Rexroth AG. (mentioned above for informational purposes only.)