

## 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                  | #24-2/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.)