



HELUKABEL® TOPSERV® 119 PVC 0,6/1 kV E170315 AWM DESINA CE

TECHNICAL DATA

PVC motor and servo cable acc. to UL Std. 758 (AWM) Style 21179

Temperature range	flexible 0°C to +90°C fixed -20°C to +90°C in drag chains under mechanical load 0°C to +60°C
Nominal voltage	VDE AC U0/U 600/1000 V UL (AWM) AC 1000 V
AC Test voltage	50 Hz 4000 V
Minimum bending radius	flexible 15 x outer Ø fixed 5 x outer Ø

CABLE STRUCTURE

- Copper wire bare, finely stranded acc. to DIN VDE 0295 cl. 5 / IEC 60228 cl. 5
- Core insulation: PP
- Core identification:
 - Power supply cores
 - Core 1: black with imprint U/L1/C/L+
 - Core 2: black with imprint V/L2
 - Core 3: black with imprint W/L3/D/L-
- Control cores
 - Pair 1: black with imprint no. 5+6
 - Pair 2: black with imprint no. 7+8
- G = with protective conductor GN-YE, x = without protective conductor
- Drain wire in the control pair
- Screened cores: control cores in pairs, with tinned copper wires, approx. Coverage 85%
- Power supply cores laid up with optimal lay length and stabilising filler
- Sliding movement supporting fleece wrapping
- Screen: braided screen of tinned copper wires, approx. Coverage 85%
- Outer sheath: PVC
- Sheath colour: see table
- Length marking: in metres

PROPERTIES

- oil-resistant acc. to HD 22.10 Appendix A / DIN EN 60811-404
- flame-retardant acc. to IEC 60332-1-2

- suitable for drag chain applications with occasional movement
- silicone-free
- low capacity
- RoHS compliant
- These cables are manufactured in accordance with high quality guidelines and complies with the DESINA® standard
- The materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2, UL VW-1, CSA FT1
- certifications and approvals:
- ECOLAB®

APPLICATION

With HELUKABEL TOPSERV® 119 PVC, the power cores are ideally combined with the control cores for the brake function and thermal protection. The production is in accordance with the specifications of well known servo drive and control manufacturers. They are used, for example, in machine, plant and robot construction as well as in automation, drive, control and production technology. Interesting for export-oriented machine and plant construction. EMC= Electromagnetic Compatibility; in order to optimise EMC properties, we recommend a double-sided and all-round large contact area of the copper braiding.

NOTES

- Brackets () mean screen
- BOSCH Rexroth® Article designations INK, REL, are registered trademarks of Bosch Rexroth AG. The references in the table are for guidance only.
- DESINA is a registered trademark and stands for decentralized and standardized installation technology for machine tools and production systems.
- for use in energy supply systems:
 - 1) the assembly instructions must be observed
 - 2) for special applications, we recommend contacting us and using our data entry form for energy supply systems

Part no.	No. cores x cross-sec. mm²	Part no. OEM	OEM	Outer-Ø approx. mm	Cu factor per km	Weight kg/km, approx
707290	(4G1+2x(2x0.75)C)C	REL0105 (INK653)	Bosch Rexroth® (Indramat)	11.2	130.0	206.6
707291	(4G1.5+2x(2x0.75)C)C	REL0106 (INK650)	Bosch Rexroth® (Indramat)	11.5	155.0	228.1
707292	(4G2.5+2x(2x1)C)C	REL0107 (INK602)	Bosch Rexroth® (Indramat)	13.5	216.0	319.5
707293	(4G4+(2x1)+(2x1.5)C)C	REL0108 (INK603)	Bosch Rexroth® (Indramat)	15.5	297.0	431.1
707294	(4G6+(2x1)+(2x1.5)C)C	REL0109 (INK604)	Bosch Rexroth® (Indramat)	17.3	374.0	568.4

TOPSERV® 119 PVC



Part no.	No. cores x cross-sec. mm²	Part no. OEM	OEM	Outer-Ø approx. mm	Cu factor per km	Weight kg/km, approx
707295	(4G10+(2x1)+(2x1.5)C)C	REL0110 (INK605)	Bosch Rexroth® (Indramat)	21.2	545.0	905.9
707296	(4G16+2x(2x1.5)C)C	REL0111 (INK606)	Bosch Rexroth® (Indramat)	25.0	804.0	1328.0