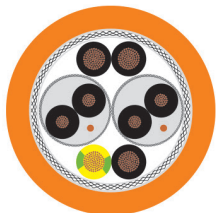


# TOPSERV® 121 PUR



HELUKABEL® TOPSERV® 121 PUR 0,6/1 kV E170315 AWM DESINA CE



HELUKABEL® TOPSERV® 121 PUR 0,6/1 kV E170315 AWM CE

## TECHNICAL DATA

**PUR Motor and servo cable acc. to UL Std. 758 (AWM) Style 21209**

|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| <b>Temperature range</b>      | flexible -30°C to +80°C<br>fixed -40°C to +90°C |
| <b>Nominal voltage</b>        | VDE AC U0/U 600/1000 V<br>UL (AWM) AC 1000 V    |
| <b>AC Test voltage</b>        | 50 Hz 4000 V                                    |
| <b>Minimum bending radius</b> | flexible 7.5 x outer Ø<br>fixed 4 x outer Ø     |

## CABLE STRUCTURE

- Copper wire bare, extra finely stranded acc. to DIN VDE 0295 cl. 6 / IEC 60228 cl. 6
- 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: PUR
- Sheath colour: see table
- Length marking: in metres

## PROPERTIES

- resistant to: UV radiation, oil, grease, coolants, hydraulic fluids, microbes, numerous alkalis and solvents, as well as cleaning agents and disinfectants
- low adhesion

- low capacity
- limited torsional strength
- halogen-free
- These cables are manufactured in accordance with high quality guidelines. All orange cables comply 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® 121 PUR, 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. Schneider Electric® is a registered trademark of Schneider Electric GmbH. 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    | for system     | Part no. OEM      | Sheath colour | Outer-Ø approx. mm | Cu factor per km | Weight kg/km, approx |
|----------|-------------------------------|----------------|-------------------|---------------|--------------------|------------------|----------------------|
| 73774    | (4G1,0 + 2x(2x0,75)C)C        | Bosch Rexroth® | REL0105 (INK0653) | orange        | 11.5               | 148.0            | 217.9                |
| 700561   | (4G1,5 + 2x(2x0,75)C)C        | Bosch Rexroth® | REL0106 (INK0650) | orange        | 12.2               | 170.0            | 250.5                |
| 73580    | (4G2,5 + 2x(2x1,0)C)C         | Bosch Rexroth® | REL0107 (INK0602) | orange        | 14.0               | 229.0            | 349.7                |
| 700562   | (4G4 + (2x1,0)C + (2x1,5)C)C  | Bosch Rexroth® | REL0108 (INK0603) | orange        | 15.8               | 318.0            | 463.0                |
| 700563   | (4G6 + (2x1,0)C + (2x1,5)C)C  | Bosch Rexroth® | REL0109 (INK0604) | orange        | 17.6               | 398.0            | 611.6                |
| 700564   | (4G10 + (2x1,0)C + (2x1,5)C)C | Bosch Rexroth® | REL0110 (INK0605) | orange        | 20.3               | 610.0            | 857.5                |

Continued on next page

# TOPSERV® 121 PUR



| Part no. | No. cores x cross-sec. mm <sup>2</sup> | for system          | Part no. OEM      | Sheath colour | Outer-Ø approx. mm | Cu factor per km | Weight kg/km, approx |
|----------|----------------------------------------|---------------------|-------------------|---------------|--------------------|------------------|----------------------|
| 75978    | (4G16 + 2x(2x1,5)C)C                   | Bosch Rexroth®      | REL0111 (INK0606) | orange        | 23.6               | 904.0            | 1240.0               |
| 75979    | (4G25 + 2x(2x1,5)C)C                   | Bosch Rexroth®      | REL0112 (INK0607) | orange        | 27.0               | 1323.0           | 1653.0               |
| 75980    | (4G35 + 2x(2x1,5)C)C                   | Bosch Rexroth®      | REL0113 (INK0667) | orange        | 30.5               | 1621.0           | 2117.0               |
| 700565   | (4G50 + 2x(2x2,5)C)C                   | Bosch Rexroth®      | INK0668           | orange        | 35.5               | 2600.0           | 3058.0               |
| 708499   | (4G0,75 + 2x(2x0,34)C)C                | Divers              |                   | orange        | 10.4               | 102.8            | 180.8                |
| 76103    | (4G1,5 + 2x(2x0,5)C)C                  | Divers              |                   | orange        | 11.6               | 145.0            | 230.6                |
| 73579    | (4G1,5 + 2x(2x1,0)C)C                  | Divers              |                   | orange        | 12.4               | 182.0            | 274.8                |
| 78955    | (4G2,5 + 2x(2x1,5)C)C                  | Divers              |                   | orange        | 15.0               | 241.0            | 403.0                |
| 74094    | (4G4 + 2x(2x1,0)C)C                    | Divers              |                   | orange        | 15.5               | 312.0            | 445.0                |
| 78956    | (4G4 + 2x(2x1,5)C)C                    | Divers              |                   | orange        | 16.2               | 324.0            | 477.9                |
| 74095    | (4G6 + 2x(2x1,0)C)C                    | Divers              |                   | orange        | 17.3               | 376.0            | 589.7                |
| 78957    | (4G6 + 2x(2x1,5)C)C                    | Divers              |                   | orange        | 18.0               | 412.0            | 626.8                |
| 74096    | (4G10 + 2x(2x1,0)C)C                   | Divers              |                   | orange        | 19.9               | 609.0            | 800.0                |
| 78958    | (4G10 + 2x(2x1,5)C)C                   | Divers              |                   | orange        | 20.9               | 625.0            | 872.9                |
| 73826    | (4x16 + 2x(2x1,0)C)C                   | Divers              |                   | orange        | 23.0               | 894.0            | 1208.0               |
| 74097    | (4x25 + 2x(2x1,0)C)C                   | Divers              |                   | orange        | 28.0               | 1313.0           | 1607.0               |
| 707775   | (4G1,5 + 2x(2x0,75)C)C                 | Schneider Electric® |                   | green         | 12.1               | 144.0            | 240.0                |
| 703103   | (4G2,5 + 2x(2x1,0)C)C                  | Schneider Electric® |                   | green         | 14.6               | 229.0            | 366.8                |