

TOPSERV® 110 / 120 PUR servo cable with 1 or 2 signal pairs 0,6/1kV, high flexible, cable for drag chain, EMC preferred type



HELUKABEL TOPSERV 120

CE



Technical data

- Spezial-PUR drag chain cable adapted to DIN VDE 0295, 0250, DIN VDE 0285-525-1-1/DIN EN 50525-1
- **Temperature range**
flexing -30°C to +80°C
fixed installation -40°C to +80°C
- **Nominal voltage**
power supply cores U_0/U 600/1000 V
control cores U_0/U 300/500 V
- **Test voltage**
power supply cores 4000 V
control cores 1000 V
- **Power rating**
to DIN VDE 0298 part 4
- **Insulation resistance**
min. 20 MOhm x km
- **Minimum bending radius**
flexing 7,5x cable \emptyset
fixed installation 4x cable \emptyset
- **Coupling resistance**
max. 250 Ohm/km

Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.6, extra fine-wire
- Core insulation of halogen-free 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**
TOPSERV® 110
core 1 black with imprint BR1
core 2 black with imprint BR2
TOPSERV® 120
pair 1: black with number no. 5+6
pair 2: black with number no. 7+8
- GN-YE conductor
- Screening of the control cores in pairs, tinned drain wire and tinned Cu braid
- Control cores stranded in pairs and laid up in layers together with the power supply cores
- Foil wrapping
- Overall screening of tinned cu braid, visible coverage min. 80%
- Fleece wrapping
- Outer sheath of PUR
- Sheath colour petrol (RAL 5018)

Properties

- low capacitance by using PP as core insulation
- PUR-outer sheath low adhesion, resistant to hydrolysis and microbial attack, halogen-free
- These highly flexible cables are fitted with an additional overall screen to assure EMC compatibility, i.e. the protection against electromagnetic interference
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Note

- For extreme applications extending beyond standard solutions we recommend that you request our questionnaire, which has been especially designed for energy supply systems.
- Please observe applicable installation regulations for use in energy supply chains.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- Servo-cable and Feedback-cable **with UL-approval** to e.g. Siemens, Bosch Rexroth, Lenze etc. can be found in chapter N ...

Application

The combination of feeder cores with the control cores for the braking function and the thermal protection in these cables is ideal. Precision servomotors, as used today in many areas of highly-automated manufacturing processes, call for high-quality, reliable and long-lasting cables. These requirements are met to a high degree as is the electromagnetic compatibility (EMC). These cables can also be used as drag chain cables. Manufacturing is based on specifications from renowned manufacturers of servo-actuators and servo-controls as well as in accordance with diverse VDE standards. Application for system SIMODRIVE.

EMC = Electromagnetic compatibility

To optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

CE = The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

TOPSERV® 110 (1 pair screened and overall screening)

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
71491	(4 G 1,5 + (2 x 1,0))	11,5	139,0	211,0	16
71493	(4 G 2,5 + (2 x 1,0))	13,6	188,0	273,0	14
71705	(4 G 4 + (2 x 1,0))	14,6	260,0	352,0	12
71706	(4 G 6 + (2 x 1,0))	16,0	360,0	500,0	10
71707	(4 G 10 + (2 x 1,0))	20,2	590,0	753,0	8
71708	(4 G 16 + (2 x 1,0))	23,8	845,0	1061,0	6
71709	(4 G 25 + (2 x 1,0))	27,0	1320,0	1499,0	4
71710	(4 G 35 + (2 x 1,0))	31,9	1840,0	1992,0	2
71711	(4 G 50 + (2 x 1,0))	36,7	2530,0	2880,0	1

TOPSERV® 120 (2 pairs individually screened and overall screening)

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
71990	(4 G 1,5 + 2 x (2 x 1,0))	12,6	186,0	242,0	16
71991	(4 G 2,5 + 2 x (2 x 1,0))	15,0	231,0	316,0	14
71992	(4 G 4 + 2 x (2 x 1,0))	16,0	308,0	415,0	12
71993	(4 G 6 + 2 x (2 x 1,0))	18,2	420,0	574,0	10
71994	(4 G 10 + 2 x (2 x 1,0))	22,8	647,0	805,0	8
71995	(4 G 16 + 2 x (2 x 1,0))	25,0	918,0	1122,0	6
71996	(4 G 25 + 2 x (2 x 1,0))	27,7	1400,0	1584,0	4
72106	(4 G 35 + 2 x (2 x 1,0))	32,0	1882,0	2185,0	2
71997	(4 G 50 + 2 x (2 x 1,0))	37,0	2574,0	2977,0	1

Dimensions and specifications may be changed without prior notice. (RD01)

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