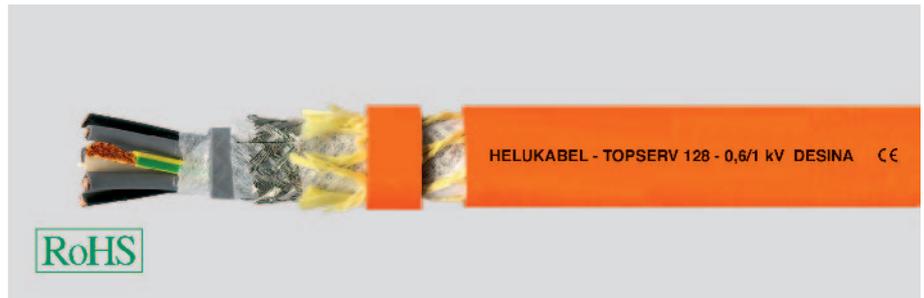


TOPSERV® 118 / 128 PUR, trailing, high flexible servo cable, 0,6/1kV, EMC-preferred type



Technical data

- Special PUR cable for use in drums
- Based on DIN VDE 0293, 0295, 0250, 0281
- **Temperature range**
flexing -40°C to +80°C
fixed installation -50°C to +90°C
- **Nominal voltage**
acc. to UL 1000 V
acc. to VDE
power supply cores U₀/U 600/1000 V
control cores U₀/U 300/500 V
- **A.c. test voltage**, 50 Hz
power supply cores 4000 V
control cores 1000 V
- **Insulation resistance**
min. 20 MΩm x km
- **Coupling resistance**
max. 250 Ωm/km
- **Minimum bending radius**
for flexible installation
approx. 7,5x cable Ø
for use in drums
approx. 15x cable Ø

Cable construction

- Bare copper, ultra-fine wire to
DIN VDE 0295 cl. 6 and/or IEC 60228 cl. 6,
 - TPE-E core insulation
 - Black supply cores with imprint U1, V2, W3
 - Green-yellow control cores, black with
imprint BR1, BR2 for 1 control pair, with
Fig. 5-8 for 2 control pairs
 - 1,5 mm² cores individually screened with
aluminium-coated polyester foil and tinned
copper braiding
 - Control cores and power supply cores
stranded around centre with optimal
lay-length
 - PVC inner sheath
 - Tinned copper braided screening, coverage
approx. 85%
 - Special support braiding
 - PUR outer sheath
 - Sheath colour orange (RAL 2003) according
to DESINA®
- Part No. 76525, 76526, 76530, 76531**
- Construction as above, except
 - 1,5 mm² cores stranded in pairs
- Part No. 77695**
- Construction as above, except
 - 3 cores 2,5 mm² individually screened
 - 4 cores 1,5 mm² individually screened
 - Cable without overall screening

Properties

- PUR outer sheath: low adhesion, flame
retardant, extremely abrasion resistant,
halogen-free, resistant to UV, oil, hydrolysis
and microbial attack
- PUR outer sheath self-extinguishing and
flame retardant according to DIN VDE 0472
part 804 test method B)
- Optimum compliance with requirements
for electromagnetic compatibility (EMC) by
approx. 85% coverage from the braided
screen

Note

- Brackets () indicate screen
- Desina®: Explanation: see introduction.

Application

The special construction of this cable type, with its high torsional stiffness, means that it can be employed as a servo cable for use in drums, e.g. for retrieval units in high-bay warehouses. The combination of supply 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 by these cables. The cables have an additional overall screen to ensure EMC compatibility, i.e. for protection against electromagnetic interference. They are manufactured based on specifications from leading manufacturers of servo drives and control systems, as well as in compliance with various VDE standards.

EMC = Electromagnetic compatibility

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

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

TOPSERV® 118 (1 control pair)

Part No.	No. cores x cross-sec. mm ²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
76521	(4 x 1,5 + 2 x 1,5)	14,6	138,0	280,0	16
76522	(4 x 2,5 + 2 x 1,5)	16,9	177,0	360,0	14
76523	(4 x 4,0 + 2 x 1,5)	17,9	258,0	510,0	12
76524	(4 x 6,0 + 2 x 1,5)	19,2	348,0	655,0	10
76525	(4 x 10,0 + (2 x 1,5))	24,0	574,0	1000,0	8
76526	(4 x 16,0 + (2 x 1,5))	27,2	815,0	1315,0	6
700460	(4 x 25,0 + (2 x 1,5))	30,1	1283,0	1510,0	4
700461	(4 x 35,0 + (2 x 1,5))	34,4	1850,0	2005,0	2
700462	(4 x 50,0 + (2 x 1,5))	38,2	2540,0	2890,0	1

TOPSERV® 128 (2 control pairs)

Part No.	No. cores x cross-sec. mm ²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
76527	(4 x 1,5 + (4 x 1,5))	15,7	185,0	290,0	16
77695	((3 x 2,5) + 1 x 2,5 + 4 x 1,5)	17,2	260,0	400,0	14
74470	(4 x 2,5 + (4 x 1,5))	17,2	260,0	370,0	14
76528	(4 x 4,0 + (4 x 1,5))	18,8	315,0	520,0	12
76529	(4 x 6,0 + 4 x 1,5)	21,4	440,0	665,0	10
76530	(4 x 10,0 + 2 x (2 x 1,5))	24,6	615,0	995,0	8
76531	(4 x 16,0 + 2 x (2 x 1,5))	27,4	900,0	1350,0	6
700463	(4 x 25,0 + 2 x (2 x 1,5))	28,9	1323,0	1595,0	4
700464	(4 x 35,0 + 2 x (2 x 1,5))	34,4	1621,0	2196,0	2
700465	(4 x 50,0 + 2 x (2 x 1,5))	38,4	2585,0	2985,0	1

Dimensions and specifications may be changed without prior notice.