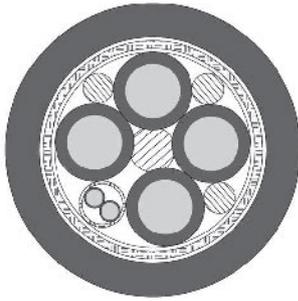


TOPSERV® 112 / 123 Siemens Standard 6FX 8008- high flexible drag chain servo cable 0,6/1kV, PUR, VDE-Reg.-No., halogen-free



Technical data

- Special PVC drag chain cable
- 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**
power supply cores 600/1000 V
control cores 300/500 V
- **A.c. test voltage**, 50 Hz
power supply cores 4000 V
control cores 1000 V
- **Insulation resistance**
min. 20 MOhm x km
- **Coupling resistance**
max. 250 Ohm/km
- **Minimum bending radius**
approx. 7,5x cable Ø

Cable construction

- TOPSERV® 112** (with 1 control pair)
- Bare copper, ultra-fine wire conductors acc. to DIN VDE 0295 cl. 6 or IEC 60228 cl. 6
 - TPE-E core insulation, halogen-free
 - Black power supply cores with imprint U1, V2, W3
 - Green-yellow earth core
 - Black control cores with imprint BR1, BR2
 - Screening of the control cores in pairs wrapped with plastic aluminium film, copper drain-wire tinned and tinned copper braided screening, approx. coverage 85%
 - Control cores stranded in pairs and laid up in layers together with optimal lay lengths and stabilising filler
 - Fleece wrapping facilitates sliding
 - Overall screening of tinned copper wire braid, coverage approx. 85%
 - PUR outer sheath
 - Sheath colour orange (RAL 2003) according to DESINA®
- TOPSERV® 123** (with 2 control pairs)
- Construction as per TOPSERV® 112
 - Except 2 screen control pairs
 - Black control cores with white imprint 5-6 and 7-8

Properties

- PUR outer sheath: low adhesion, flame retardant, halogen-free, resistant to UV, oil, hydrolysis and microbial attack
- PUR sheath: self-extinguishing and flame retardant, test method B acc. to DIN VDE 0472 part 804 and IEC 60332-1
- Optimum compliance with requirements for electromagnetic compatibility (EMC) by approx. 85% coverage from the braided screen
- These cables are produced to high quality specifications and conform to the DESINA®-standard.

Note

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

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 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 copper braiding on both ends.

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

TOPSERV® 112 (1 control pair) EMC

Part No.	No. cores x cross-sec. mm ²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
74431	(4 x 1,5 + (2 x 1,0))	11,4	138,0	245,0	16
78938	(4 x 1,5 + (2 x 1,5))	12,2	148,0	265,0	16
74432	(4 x 2,5 + (2 x 1,0))	13,8	177,0	329,0	14
78939	(4 x 2,5 + (2 x 1,5))	14,5	187,0	339,0	14
74433	(4 x 4,0 + (2 x 1,0))	15,0	258,0	462,0	12
78940	(4 x 4,0 + (2 x 1,5))	15,5	268,0	475,0	12
74434	(4 x 6,0 + (2 x 1,0))	16,5	349,0	596,0	10
78941	(4 x 6,0 + (2 x 1,5))	16,8	358,0	607,0	10

TOPSERV® 123 (2 control pairs) EMC

Part No.	No. cores x cross-sec. mm ²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
74440	(4 x 1,5 + 2 x (2 x 1,0))	12,6	182,0	262,0	16
78943	(4 x 1,5 + 2 x (2 x 1,5))	13,3	192,0	272,0	16
74441	(4 x 2,5 + 2 x (2 x 1,0))	15,0	229,0	336,0	14
78944	(4 x 2,5 + 2 x (2 x 1,5))	15,6	239,0	346,0	14
74442	(4 x 4,0 + 2 x (2 x 1,0))	15,7	312,0	475,0	12
78945	(4 x 4,0 + 2 x (2 x 1,5))	16,4	323,0	485,0	12
74443	(4 x 6,0 + 2 x (2 x 1,0))	18,2	437,0	606,0	10
78946	(4 x 6,0 + 2 x (2 x 1,5))	19,0	447,0	616,0	10

Dimensions and specifications may be changed without prior notice.

Continuation ▶