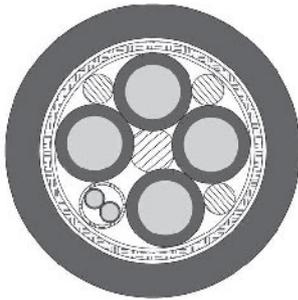


TOPSERV® 113 / 127 according to Siemens-Standard

6FX 8008- bzw. 6FX 7008-, high flexible drag chain servo cable, VDE-Reg.-No. 0,6/1kV



Technical data

- Special PUR drag chain cable acc. to UL AWM Style 20235 and CSA AWM
- **Temperature range**
flexing -40°C to +80°C
fixed installation -50°C to +90°C
- **Nominal voltage**
acc. to UL/CSA 1000 V
acc. to VDE
power supply cores U_0/U 600/1000 V
control cores U_0/U 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 \varnothing

Cable construction

- Bare copper, ultra-fine wire conductors acc. to DIN VDE 0295 cl. 6 and/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 foil, copper drain-wire tinned and tinned copper braided screening, approx. coverage 85%
- Control cores stranded in pairs and laid up in layers together with the power supply cores with optimal lay length and stabilising filler
- Fleece wrapping facilitates sliding
- Overall screening from tinned copper braid, optimal. coverage approx. 85%
- PUR outer sheath
- Sheath colour orange (RAL 2003) according to DESINA®

Properties

- PUR outer sheath: low adhesion, extremely abrasion resistant, 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

Acc. to SIEMENS Standard

Part No.	cross-sec	SIEMENS Part No.
78948	(4x1,5+(2x1,5))	6FX 8008-1BA11
78949	(4x2,5+(2x1,5))	6FX 8008-1BA21
78950	(4x4+(2x1,5))	6FX 8008-1BA31
78951	(4x6+(2x1,5))	6FX 8008-1BA41
78952	(4x10+(2x1,5))	6FX 8008-1BA51
75956	(4x16+(2x1,5))	6FX 8008-1BA61
75957	(4x25+(2x1,5))	6FX 8008-1BA25
75958	(4x35+(2x1,5))	6FX 8008-1BA35
75959	(4x50+(2x1,5))	6FX 8008-1BA50

Note

- Brackets () indicate screen.
- For linear motors, these cables are also available with 0,5 mm² signal cores.
- Desina®: Explanation: see introduction.
- SIEMENS product designations 6FX 8008- and 6FX 7008- are registered trademarks of Siemens AG, and are to be used only for purposes of comparison.

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. Production is based on the specifications of established manufacturers of servo-drives and controls, as well as on various VDE, UL and CSA standards. Applications include machine, plant and robot construction, automation, drive, control and production engineering.

Attractive for export-oriented mechanical and system engineering.

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® 113 according to SIEMENS Standard 6FX 8008-

Part No.	No. cores x cross-sec. mm ²	Outer \varnothing ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
77376	(4 x 1,0 + (2 x 0,75))	12,5	134,0	250,0	17
700199	(4 x 1,5 + (2 x 0,5))	11,5	127,0	240,0	16
74506	(4 x 1,5 + (2 x 1,0))	11,4	138,0	254,0	16
78948	(4 x 1,5 + (2 x 1,5))	12,5	148,0	265,0	16
74507	(4 x 2,5 + (2 x 1,0))	13,5	177,0	328,0	14
78949	(4 x 2,5 + (2 x 1,5))	14,0	187,0	339,0	14

TOPSERV® 127 according to SIEMENS Standard 6FX 8008-, for linear drives

Part No.	No. cores x cross-sec. mm ²	SIEMENS Part No.	Outer \varnothing ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
700632	(4 x 1,5 + 4 x 0,5)	6FX7008-1BC11	13,4	150,0	290,0	16
700633	(4 x 2,5 + 4 x 0,5)	6FX7008-1BC21	14,5	190,0	312,0	14
700634	(4 x 4,0 + 4 x 0,5)	6FX7008-1BC31	16,1	250,0	481,0	12

Dimensions and specifications may be changed without prior notice.

Continuation ▶