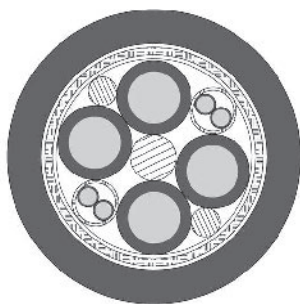


# TOPSERV® 220 according to Siemens Standard 6FX 5008- PVC, flexible servo cable to permanent laying, 0,6/1kV, EMC-preferred type



## Technical data

- Special PVC cable
- **Temperature range**  
flexing -5°C to +80°C  
fixed installation -40°C to +80°C
- **Nominal voltage**  
to UL 1000 V  
to VDE:  
power supply cores 600/1000 V  
control cores 300/500 V  
**Art.No. 74671, 74178**  
U<sub>0</sub>/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. 10x cable Ø

## Acc. to SIEMENS Standard

Part No.	cross-sec	SIEMENS Part No.
700475	(4x10+(2x1,5))	6FX 5008-1BA51
700476	(4x16+(2x1,5))	6FX 5008-1BA61
700477	(4x25+(2x1,5))	6FX 5008-1BA25
700478	(4x35+(2x1,5))	6FX 5008-1BA35
700479	(4x50+(2x1,5))	6FX 5008-1BA50

SIEMENS product designations 6FX 8008 are registered trademarks of Siemens AG and serve only for comparison purposes.

## Note

- Brackets ( ) indicate screen.
- For applications with continuous movement, such as in energy supply chains, we recommend that you use our highly-flexible servo cables.
- SIEMENS product designations 6FX 5008- 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. 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.

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

## Cable construction

- Bare copper, fine wire to DIN VDE 0295 cl. 5 and/or IEC 60228 cl. 5,
- Special-PVC core insulation
- Black supply cores with imprint U1, V2, W3
- Green-yellow earth core
- Black control cores with white imprint 5-6 and 7-8
- Screening of the control cores in pairs wrapped with plastic aluminium-covered polyester foil, copper drain-wire tinned and tinned copper braided screening, approx. coverage 85% polyester foil wrapping over screen
- Control cores stranded in pairs together with the power supply cores in layers with optimal lay-length
- Taping of polyester foil
- Overall screening of tinned copper braid, coverage approx. 85%
- Special PVC outer sheath
- Sheath colour orange (RAL 2003) (DESINA®) or grey (RAL 7001)

## Properties

- Extensively oil resistant
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- Optimum compliance with requirements for electromagnetic compatibility (EMC) by approx. 85% coverage from the braided screen

### Part No. 74178

- Construction as TOPSERV® 220, above
- Control core colours wh, bn, bk, rd
- Sheath colour orange (RAL 2003)

### Part No. 77135

- Structure as per part no. 74178, but this cable has a double overall screening consisting of an aluminium-coated polyester foil and a tinned copper braid. This provides outstanding EMC protection.

### Part No. 78824

- Construction as above, except
- Inner sheath PVC
- Sheath colour orange (RAL 2003) according to DESINA®

Continuation ►