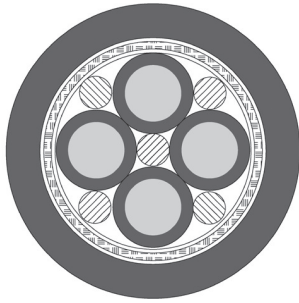


# TOPSERV® PVC Motor and servo cables for fixed or not constantly movements 0,6/1 kV, according to Siemens 6FX5008, Lenze, Bosch Rexroth



## Technical data

- Special PVC Motorcable acc. to UL AWM Style 2570 CSA AWM VDE-recognized
- **Temperature range**  
flexing -0°C to +60°C  
fixed installation -20°C to +80°C
- **Nominal voltage**  
VDE U<sub>0</sub>/U 600/1000 V  
UL/CSA 1000 V
- **A.c. test voltage**, 50 Hz  
4000 V
- **Minimum bending radius**  
flexing 15x cable Ø  
fixed installation 5x cable Ø  
min. 100.000 cycles

## Cable structure

- Bare copper-conductor, acc. to DIN EN 60228 class 5: fine-wire class 6: extra fine-wire
- Core insulation to 6 mm<sup>2</sup> of halogen-free PP from 10 mm<sup>2</sup> of PVC
- 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® 108 PVC** without control cores  
**TOPSERV® 112 PVC** with **1** control cores  
acc. to Siemens  
core 1: black with imprint BR1  
core 2: white with imprint BR2  
acc. to Lenze  
core 1: brown with imprint BR1  
core 2: white with imprint BR2  
**TOPSERV® 119 PVC** with **2** control cores  
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 wrapped with tinned copper braid
- Power supply cores laid up with optimal lay length and stabilising filler
- Fleece wrapping facilitates sliding
- Overall screening from tinned copper braid, optimal coverage approx. 85%
- Outer sheath of PVC
- Sheath colour orange (RAL 2003)

## Properties

- low capacitance until 6mm<sup>2</sup> (included)
- oilresistant PVC outer sheath
- 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
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## Tests

- PVC sheath flame retardant acc. to DIN EN 60332-1-1 to -1-3 (VDE 0482-332-1-1 to -1-3)

## Note

- For a corresponding encoder cables please check chapter **TOPGEBER 511 PVC**
- For highly flexible, drag chain capable servo cables please check chapter **TOPSERV® PUR**
- Brackets ( ) indicate screen
- DESINA® explanation see introduction
- SIEMENS product designations 6FX 5008-plus are registered trademarks of Siemens AG and are to be used only for purposes of comparison
- Lenze product designations are registered trademarks of Lenze AG and are to be used only for purposes of comparison
- Bosch Rexroth product designations INK are registered trademarks of Bosch Rexroth AG and are to be used only for purposes of comparison

## Application

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. 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 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.

Continuation ►

# TOPSERV® PVC Motor and servo cables for fixed or not constantly

movements 0,6/1 kV, according to Siemens 6FX5008, Lenze, Bosch Rexroth



## TOPSERV® 108 PVC, acc.to Siemens 6FX5008

| Part no. | No.cores x cross-sec. mm <sup>2</sup> | for system | OEM Part no.  | Sheath colour   | Outer Ø app. mm | Cop. weight kg / km | Weight app. kg / km | AWG-No. |
|----------|---------------------------------------|------------|---------------|-----------------|-----------------|---------------------|---------------------|---------|
| 707250   | ( 4 G 1,5)                            | Siemens    | 6FX5008-1BB11 | Orange RAL 2003 | 8,0             | 78,0                | 118,0               | 16      |
| 707251   | ( 4 G 2,5)                            | Siemens    | 6FX5008-1BB21 | Orange RAL 2003 | 9,6             | 130,0               | 180,0               | 14      |
| 707252   | ( 4 G 4)                              | Siemens    | 6FX5008-1BB31 | Orange RAL 2003 | 11,0            | 198,0               | 264,0               | 12      |
| 707253   | ( 4 G 6)                              | Siemens    | 6FX5008-1BB41 | Orange RAL 2003 | 13,1            | 288,0               | 382,0               | 10      |
| 707254   | ( 4 G 10)                             | Siemens    | 6FX5008-1BB51 | Orange RAL 2003 | 19,3            | 463,0               | 764,0               | 8       |
| 707255   | ( 4 G 16)                             | Siemens    | 6FX5008-1BB61 | Orange RAL 2003 | 23,3            | 701,0               | 1218,0              | 6       |
| 707256   | ( 4 G 25)                             | Siemens    | 6FX5008-1BB25 | Orange RAL 2003 | 26,9            | 1068,0              | 1670,0              | 4       |
| 707257   | ( 4 G 35)                             | Siemens    | 6FX5008-1BB35 | Orange RAL 2003 | 30,3            | 1449,0              | 2139,0              | 2       |
| 707258   | ( 4 G 50)                             | Siemens    | 6FX5008-1BB50 | Orange RAL 2003 | 34,5            | 2096,0              | 2991,0              | 1       |

## TOPSERV® 112 PVC, acc.to Siemens 6FX5008

| Part no. | No.cores x cross-sec. mm <sup>2</sup> | for system | OEM Part no.  | Sheath colour   | Outer Ø app. mm | Cop. weight kg / km | Weight app. kg / km | AWG-No. |
|----------|---------------------------------------|------------|---------------|-----------------|-----------------|---------------------|---------------------|---------|
| 707280   | ( 4 G 1,5 + (2 x 1,5))                | Siemens    | 6FX5008-1BA11 | Orange RAL 2003 | 10,4            | 140,0               | 206,0               | 16      |
| 707281   | ( 4 G 2,5 + (2 x 1,5))                | Siemens    | 6FX5008-1BA21 | Orange RAL 2003 | 12,0            | 185,0               | 269,0               | 14      |
| 707282   | ( 4 G 4 + (2 x 1,5))                  | Siemens    | 6FX5008-1BA31 | Orange RAL 2003 | 13,6            | 257,0               | 377,0               | 12      |
| 707283   | ( 4 G 6 + (2 x 1,5))                  | Siemens    | 6FX5008-1BA41 | Orange RAL 2003 | 15,6            | 348,0               | 485,0               | 10      |
| 707284   | ( 4 G 10 + (2 x 1,5))                 | Siemens    | 6FX5008-1BA51 | Orange RAL 2003 | 21,0            | 502,0               | 887,0               | 8       |
| 707285   | ( 4 G 16 + (2 x 1,5))                 | Siemens    | 6FX5008-1BA61 | Orange RAL 2003 | 24,1            | 741,0               | 1276,0              | 6       |
| 707286   | ( 4 G 25 + (2 x 1,5))                 | Siemens    | 6FX5008-1BA25 | Orange RAL 2003 | 28,3            | 1100,0              | 1716,0              | 4       |
| 707287   | ( 4 G 35 + (2 x 1,5))                 | Siemens    | 6FX5008-1BA35 | Orange RAL 2003 | 31,4            | 1498,0              | 2290,0              | 2       |
| 707288   | ( 4 G 50 + (2 x 1,5))                 | Siemens    | 6FX5008-1BA50 | Orange RAL 2003 | 34,5            | 2500,0              | 2934,0              | 1       |

## TOPSERV® 112 PVC, acc.to Lenze

| Part no. | No.cores x cross-sec. mm <sup>2</sup> | for system | OEM Part no. | Sheath colour   | Outer Ø app. mm | Cop. weight kg / km | Weight app. kg / km | AWG-No. |
|----------|---------------------------------------|------------|--------------|-----------------|-----------------|---------------------|---------------------|---------|
| 707221   | ( 4 G 1 + (2 x 0,5))                  | Lenze      | -            | Orange RAL 2003 | 9,5             | 88,0                | 143,0               | 17      |
| 707222   | ( 4 G 1,5 + (2 x 0,5))                | Lenze      | -            | Orange RAL 2003 | 11,0            | 106,0               | 187,0               | 16      |
| 707223   | ( 4 G 2,5 + (2 x 0,5))                | Lenze      | -            | Orange RAL 2003 | 12,3            | 152,0               | 233,0               | 14      |
| 707224   | ( 4 G 4 + (2 x 1,0))                  | Lenze      | -            | Orange RAL 2003 | 14,6            | 229,0               | 382,0               | 12      |
| 707225   | ( 4 G 6 + (2 x 1,0))                  | Lenze      | -            | Orange RAL 2003 | 16,7            | 312,0               | 491,0               | 10      |
| 710054   | ( 4 G 10 + (2 x 1,0))                 | Lenze      | -            | Orange RAL 2003 | 19,8            | 484,0               | 731,0               | 8       |
| 710055   | ( 4 G 16 + (2 x 1,0))                 | Lenze      | -            | Orange RAL 2003 | 23,3            | 729,0               | 1033,0              | 6       |

## TOPSERV® 119 PVC, acc.to Bosch Rexroth

| Part no. | No.cores x cross-sec. mm <sup>2</sup> | for system    | OEM Part no. | Sheath colour   | Outer Ø app. mm | Cop. weight kg / km | Weight app. kg / km | AWG-No. |
|----------|---------------------------------------|---------------|--------------|-----------------|-----------------|---------------------|---------------------|---------|
| 707290   | ( 4 G 1 + 2 x (2 x 0,75))             | Bosch Rexroth | INK-0653     | Orange RAL 2003 | 11,2            | 130,0               | 208,0               | -       |
| 707291   | ( 4 G 1,5 + 2 x (2 x 0,75))           | Bosch Rexroth | INK-0650     | Orange RAL 2003 | 11,5            | 155,0               | 229,0               | -       |
| 707292   | ( 4 G 2,5 + 2 x (2 x 1,0))            | Bosch Rexroth | INK-0602     | Orange RAL 2003 | 13,5            | 216,0               | 321,0               | -       |
| 707293   | ( 4 G 4 + (2 x 1,0) + (2 x 1,5))      | Bosch Rexroth | INK-0603     | Orange RAL 2003 | 15,5            | 297,0               | 432,0               | -       |
| 707294   | ( 4 G 6 + (2 x 1,0) + (2 x 1,5))      | Bosch Rexroth | INK-0604     | Orange RAL 2003 | 17,3            | 374,0               | 587,0               | -       |
| 707295   | ( 4 G 10 + (2 x 1,0) + (2 x 1,5))     | Bosch Rexroth | INK-0605     | Orange RAL 2003 | 21,2            | 545,0               | 910,0               | -       |
| 707296   | ( 4 G 16 + 2 x (2 x 1,5))             | Bosch Rexroth | INK-0606     | Orange RAL 2003 | 25,0            | 804,0               | 1334,0              | -       |

Dimensions and specifications may be changed without prior notice. (RN07)

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