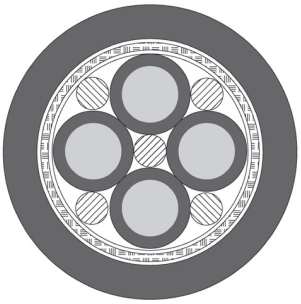
TOPSERV® PVC Motor and servo cables for fixed or not constantly movements 0,6/1 kV, according to Siemens 6FX5008, Lenze, Bosch Rexroth



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_0/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 mm² of halogen-free PP
  from 10 mm² 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 6mm² (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 cahpter **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 compatibillity
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. mm²	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. mm²	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. mm²	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. mm²	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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