

# TOPSERV® 109 PUR PUR, high flexible motor cable

for drag chain without pairs according to Siemens Standard  
6FX8008-plus 0,6/1kV



new

## Technical data

- Special PUR drag chain cable acc. to UL AWM Style 21223 CSA AWM
- **Temperature range**  
flexing -30 °C to +80 °C  
fixed installation -40 °C to +90 °C
- **Nominal voltage**  
acc. to UL/CSA 1000 V  
acc. to VDE U<sub>0</sub>/U 600/1000 V
- **A.c. test voltage**, 50 Hz  
4000 V
- **Insulation resistance**  
min. 20 MΩm x km
- **Coupling resistance**  
max. 250 Ωm/km
- **Minimum bending radius**  
flexing approx. 7,5x cable ø  
fixed installation approx. 4x cable ø

## Cable structure

- Bare copper, ultra-fine wire acc. to DIN VDE 0295 cl. 6 and/or IEC 60228 cl. 6
- core insulation Polypropylen, halogen-free
- Black cores with sequential numbering imprinted in white
- Green-yellow earth core
- Cores stranded together with optimal lay-length and stabilising filler
- Fleece wrapping facilitates sliding
- Tinned copper braided screening, coverage approx. 85%
- PUR outer sheath
- Sheath colour orange (RAL 2003) according to DESINA®
- with meter marking, change-over in 2011

## Properties

- Low adhesion, flame retardant, extremely abrasion resistant, halogen-free, resistant to UV, oil, hydrolysis and microbial attack PUR sheath
- PUR sheath self-extinguishing and flame retardant according to VDE 0482-332-1-2, DIN EN 60332-1-2/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- Optimized insulation materials ensure resistance to oils (including mineral oils), greases, coolants, hydraulic fluids as well as many alkalis and solvents.
- 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

## Note

- the corresponding Encoder cables can be found under TOPGEBER® 512 PUR
- the Motorcables for static application or application with occasional movement with PVC Jacket can be found under TOPSERV® 109 PVC
- SIEMENS product designations 6FX 8008-plus... are registered trademarks of Siemens AG, and are to be used only for purposes of comparison.
- For extreme applications extending beyond standard solutions we recommend that you request our questionnaire, which has been especially designed for energy supply systems.
- Please observe applicable installation regulations for use in energy supply chains.
- Desina®: Explanation: see introduction.

## Application

Supply cable optimised especially for the supply of DNC motors. These cables are specially designed for use in power drag chains, handling equipment, robotics, tooling machinery, processing and manufacturing machinery.

The optimised outside diameter, reduced weight and excellent torsion characteristics facilitate use in multi-shift operation with extreme alternating bending stress cycles.

Particularly recommended as a supply cable between frequency converters and servomotors.

**EMC** = Electromagnetic compatibility

To optimise the EMC features we recommend a large round contact of the copper braiding on both ends.

CC= The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	for system	OEM Part no.	Jacket colour	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
75943	( 4 G 1,5)	Siemens	6FX8008-1BB11	Orange RAL 2003	9,1	90,0	159,0	16
75944	( 4 G 2,5)	Siemens	6FX8008-1BB21	Orange RAL 2003	10,6	132,0	235,0	14
75945	( 4 G 4)	Siemens	6FX8008-1BB31	Orange RAL 2003	11,9	204,0	323,0	12
75946	( 4 G 6)	Siemens	6FX8008-1BB41	Orange RAL 2003	14,5	315,0	464,0	10
75947	( 4 G 10)	Siemens	6FX8008-1BB51	Orange RAL 2003	17,5	488,0	672,0	8
75948	( 4 G 16)	Siemens	6FX8008-1BB61	Orange RAL 2003	21,6	769,0	1089,0	6
75949	( 4 G 25)	Siemens	6FX8008-1BB25	Orange RAL 2003	25,4	1100,0	1523,0	4
75950	( 4 G 35)	Siemens	6FX8008-1BB35	Orange RAL 2003	28,6	1510,0	2080,0	2
75951	( 4 G 50)	Siemens	6FX8008-1BB50	Orange RAL 2003	33,4	2133,0	2710,0	1
700437	( 4 G 70)	Siemens	6FX8008-1BB70	Orange RAL 2003	42,5	3029,0	4123,0	2/0
700897	( 4 G 95)	Siemens	-	Orange RAL 2003	49,5	4606,0	0,0	3/0

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