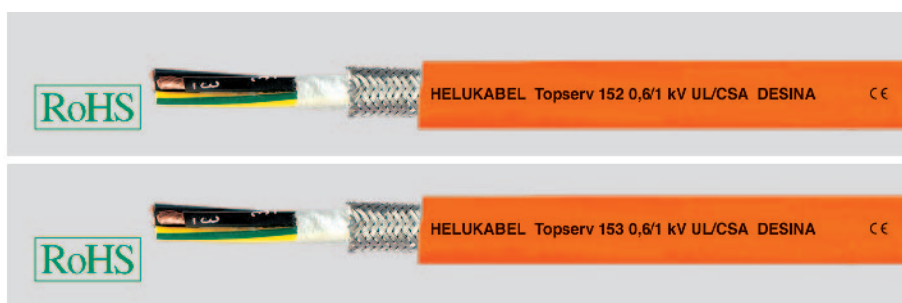
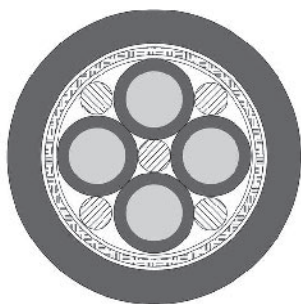


TOPSERV® 152 / 153 PVC, according to Siemens Standard

6FX 5008-, flexible, low capacitance motor supply cable, 0,6/1kV



Technical data

TOPSERV® 153

- Special PVC motor cable
 - Based on DIN VDE 0281, 0245, 0250, 0281
 - **Temperature range**
flexing -5°C to +80°C
fixed installation -40°C to +80°C
 - **Nominal voltage**
acc. to VDE U₀/U 600/1000 V
 - **A.c. test voltage**, 50 Hz
4000 V
 - **Mutual capacitance**
core/core approx. 70 nF/km
core/screen approx. 110 nF/km
 - **Insulation resistance**
min. 20 MΩm x km
 - **Coupling resistance**
max. 250 Ωm/km
 - **Minimum bending radius** for
flexible installation
approx. 20 x cable Ø
fixed installation
approx. 6 x cable Ø
- ### TOPSERV® 152
- Special PVC motor cable acc. to UL AWM
Style 21179 and CSA AWM
 - **Nominal voltage**
acc. to UL 1000 V
acc. to VDE U₀/U 600/1000 V

Cable construction

- Bare copper, fine wire conductors, bunch stranded in acc. with DIN VDE 0295 cl. 5 or IEC 60228 cl. 5
- Polypropylene core insulation, halogen-free
- Black cores with sequential numbering imprinted in white, acc. to DIN VDE 0293
- Green-yellow earth core
- Cores stranded in layers with optimal lay-length
- Tinned copper braided screening, coverage approx. 85%
- Special PVC sheath
- Sheath colour orange (RAL 2003) according to DESINA®

• TOPSERV® 152 acc. to SIEMENS Standard

| Part No. | cross-sec | SIEMENS Part-No. |
|----------|-----------|------------------|
| 79544 | 4x1,5 | 6FX 5008-1BB11 |
| 79545 | 4x2,5 | 6FX 5008-1BB21 |
| 79546 | 4x4 | 6FX 5008-1BB31 |
| 79547 | 4x6 | 6FX 5008-1BB41 |
| 79548 | 4x10 | 6FX 5008-1BB51 |
| 79549 | 4x16 | 6FX 5008-1BB61 |
| 79550 | 4x25 | 6FX 5008-1BB25 |
| 79551 | 4x35 | 6FX 5008-1BB35 |
| 79552 | 4x50 | 6FX 5008-1BB50 |
| 700442 | 4x70 | 6FX 5008-1BB70 |

SIEMENS product designations 6FX 5008 are registered trademarks of Siemens AG and serve only for comparison purposes.

Properties

- Special PVC sheath, largely oil resistant, self-extinguishing and flame retardant, test method B acc. to VDE 0472 part 804 and IEC 60332-1, chemical resistance (see table Technical Information)
- 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 use of polypropylene for core insulation means that thanks to the reduction in cable-related losses these low capacitance motor cables can have longer cable lengths between the converter and the motor than with comparable cables with PVC insulation

Note

- For applications with continuous movement, such as in energy supply chains, we recommend that you use our highly-flexible motor supply cables TOPSERV® 150 and TOPSERV® 151.
- SIEMENS product designations 6FX 5008-... are registered trademarks of Siemens AG, and are to be used only for purposes of comparison.
- Desina®: Explanation: see introduction.

Application

Used as supply cables for electronically controlled servomotors, frequency converters and for connection to DNC motors. These cables are suitable for flexible and fixed installation subjected to medium mechanical stresses in dry, moist and wet rooms.

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

Important 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® 152 with UL/CSA-approvals

| Part No. | No. cores x cross-sec. mm ² | Outer Ø ca. mm | Cop. weight kg / km | Weight ca. kg / km | AWG-No. |
|----------|--|----------------|---------------------|--------------------|---------|
| 79544 | 4 x 1,5 | 10,1 | 131,0 | 150,0 | 16 |
| 79545 | 4 x 2,5 | 12,3 | 187,0 | 230,0 | 14 |
| 79546 | 4 x 4 | 13,9 | 247,0 | 315,0 | 12 |
| 79547 | 4 x 6 | 15,8 | 349,0 | 450,0 | 10 |
| 79548 | 4 x 10 | 20,2 | 520,0 | 710,0 | 8 |
| 79549 | 4 x 16 | 24,5 | 780,0 | 1040,0 | 6 |
| 79550 | 4 x 25 | 29,7 | 1142,0 | 1500,0 | 4 |
| 79551 | 4 x 35 | 34,3 | 1683,0 | 1995,0 | 2 |
| 79552 | 4 x 50 | 39,3 | 2349,0 | 2755,0 | 1 |
| 700442 | 4 x 70 | 42,5 | 3120,0 | 4600,0 | 2/0 |

TOPSERV® 153 without UL/CSA-approvals

| Part No. | No. cores x cross-sec. mm ² | Outer Ø ca. mm | Cop. weight kg / km | Weight ca. kg / km | AWG-No. |
|----------|--|----------------|---------------------|--------------------|---------|
| 79535 | 4 x 1,5 | 10,1 | 131,0 | 150,0 | 16 |
| 79536 | 4 x 2,5 | 12,3 | 187,0 | 230,0 | 14 |
| 79537 | 4 x 4 | 13,9 | 247,0 | 315,0 | 12 |
| 79538 | 4 x 6 | 15,8 | 349,0 | 450,0 | 10 |
| 79539 | 4 x 10 | 20,2 | 520,0 | 710,0 | 8 |
| 79540 | 4 x 16 | 24,5 | 780,0 | 1040,0 | 6 |
| 79541 | 4 x 25 | 29,7 | 1142,0 | 1500,0 | 4 |
| 79542 | 4 x 35 | 34,3 | 1683,0 | 1995,0 | 2 |
| 79543 | 4 x 50 | 39,3 | 2349,0 | 2755,0 | 1 |
| 700443 | 4 x 70 | 42,5 | 3120,0 | 4600,0 | 2/0 |

Dimensions and specifications may be changed without prior notice.