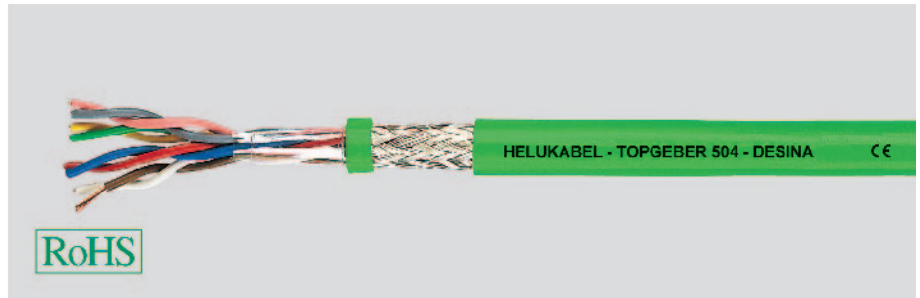
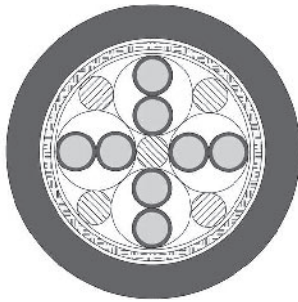


# TOPGEBER 504 / 511

according to Siemens Standard 6FX 5008- low capacitance (ca. 70nF/km),  
flexible feedback cable, low capacitance (ca. 40nF/km), PVC



## Technical data

- **Temperature range**  
flexing -5°C to +80°C  
fixed installation -40°C to +80°C
- **Nominal voltage** 350 V
- **A.c. test voltage**, 50 Hz  
core/core 1200 V  
core/screen 800 V
- **Insulation resistance**  
min. 5 MΩm x km
- **Mutual capacitance**  
core/core approx. 40 nF/km  
core/screen approx. 80 nF/km
- **Coupling resistance**  
max. 250 Ωm/km
- **Characteristic impedance**  
approx. 110 Ωm
- **Cross-talk attenuation**  
up to 1 MHz min. 50 dB  
up to 10 MHz min. 40 dB
- **Minimum bending radius**  
for flexible installation approx. 20x cable Ø

## Cable construction

- Bare copper, fine wire conductors in acc. with DIN VDE 0295 cl. 5 and IEC 60228 cl. 5
- Special polypropylene core insulation
- Colour codes acc. to DIN 47100
- Cores twisted in pairs
- Screen of aluminium-coated polyester film
- Braided screen of tinned copper wire, approx. coverage 85%, tinned drain wire
- Special PVC sheath
- Sheath colour green (RAL 6018) acc. to DESINA® or grey upon request

### Part No. 74450

- Construction as above, except
- Cores stranded in layers

### Part Nos. 700241 (TOPGEBER 504)

- Construction as above, except
- with UL/CSA approval

### Part Nos. 700639-700644 (TOPGEBER 511)

- Construction as above, except
- with polypropylene core insulation
- with UL/CSA approval

## 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
- These cables are produced to high quality specifications and conform to the DESINA®-standard
- The twisted-pair stranding results in good crosstalk attenuation properties
- Optimum compliance with requirements for electromagnetic compatibility (EMC) by approx. 85% coverage from the braided screen

## Note

- Brackets ( ) indicate screen
- 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.
- 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

This low-loss, paired, double-screened data cable is extremely suitable for interference-free transmission of data signals in the fields of electrical engineering, metrology and control technology. Can be used in process control, as a signal cable in machining centres, or as a signal cable for connecting data systems. Good cross-talk attention due to twisted pairs with short lay-lengths. Particularly suitable for **RS 422** and **RS 485 interfaces**. This particularly low capacitance cable type is used as a measuring and signal cable for transmission rates up to 10 megabits per second.

**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.

Continuation ►