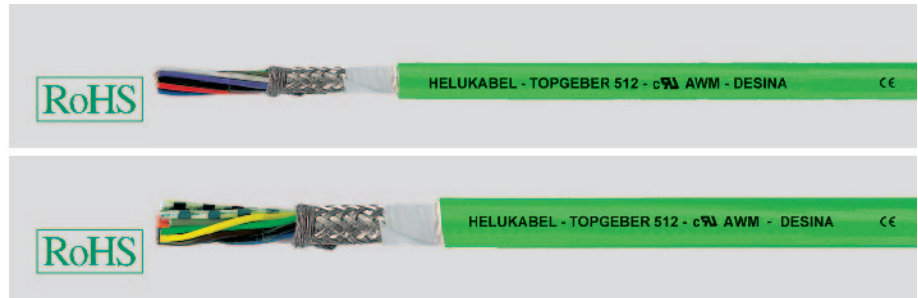
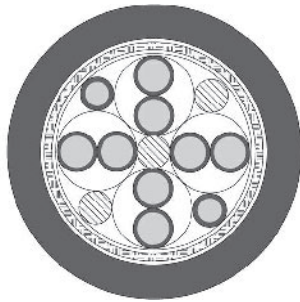


# TOPGEBER 512 acc. to Siemens Standard 6FX 8008-, INDRAMAT

Standard INK, PUR, high flexible drag chain feedback cable,  
low capacitance (ca. 70 nF/km)



## Technical data

- Special PUR drag chain feedback cable acc. to UL AWM style 20233 and CSA
- **Temperature range**  
flexing -20°C to +80°C  
fixed installation -40°C to +80°C
- **Nominal voltage**  
acc. to UL 300 V  
0,14-0,34 mm<sup>2</sup>: 350 V  
0,5-1,0 mm<sup>2</sup>: 500 V
- **A.c. test voltage**, 50 Hz  
core/core 2000 V  
core/screen 1000 V
- **Mutual capacitance** at 800 Hz  
core/core approx. 70 nF/km  
core/screen approx. 110 nF/km
- **Insulation resistance**  
min. 20 MΩm x km
- **Coupling resistance**  
max. 250 Ωm
- **Minimum bending radius**  
approx. 12x cable Ø

## Cable construction

- Bare copper, ultra-fine wire conductors acc. to DIN VDE 0295 cl. 6
- Core insulation of special polypropylene
- Core colours see below
- Fleece wrapping facilitates sliding
- Overall screening of tinned copper wire braid with tinned drain wire, coverage approx. 85%
- Polyester foil
- PUR outer sheath
- Sheath colour green (RAL 6018) acc. to DESINA® or orange
- **Colour code:**
  - **Part No. 78081**  
0,5 mm<sup>2</sup> whrd, whye, whbk, whbu
  - **Part No. 79613**  
0,5 mm<sup>2</sup> wh, bn

## Properties

- PUR outer sheath: low adhesion, extremely abrasion resistant, halogen-free, resistant to UV-, oil-, hydrolysis and microbial attack
- Special feature: These cables are produced to high quality specifications and conform to the DESINA®-standard
- Due to the high grade special core insulation, the PVC sheath and the highly flexible conductor, these cables are ideally suitable for use in drag chains and provide high functional reliability
- Optimum compliance with requirements for electromagnetic compatibility (EMC) by approx. 85% coverage from the braided screen
- Particularly attractive for export-oriented markets due to UL/CSA approval

## Note

- Brackets ( ) indicate screen.
- SIEMENS product designations 6FX 8008-... are registered trademarks of Siemens AG, and are to be used only for purposes of comparison.
- INDRAMAT product designations INK- are registered trademarks of Bosch-Rexroth AG, and are to be used only for purposes of comparison.
- Desina®: Explanation: see introduction.

## Application

These low-capacitance incremental encoder cables or position feedback cables transmit the control pulses for positioning and operating characteristics of servomotors. These cables are used as connecting cables for tachos, brakes and pulse generators in applications subjected to heavy mechanical stresses in industrial equipment, machine tools, control and automation equipment.

**EMC** = Electromagnetic compatibility

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

**CE** = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Part No.	No. cores x cross-sec. mm <sup>2</sup>	for system	SIEMENS / INDRAMAT Part No.	Core colours	Jacket colour	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
78079	(12 x 0,25)	Siemens	6FX 8008-1BD81	white, brown, green, yellow, grey, blue, red, black, violet, orange, white-black, white-brown	Green	7,5	65	90,0	24
700657	(3 x 2 x 0,14 + 4 x 0,14 + 2 x 0,5)	Siemens	6FX 8008-1BD41	green, yellow, black, brown, blue, violet, yellow, blue, grey, black-white, red, black	Green	8,9	66	120,0	26
700658	(3 x 2 x 0,14 + 4 x 0,14 + 4 x 0,23 + 2 x 0,5)	Siemens	6FX 8008-1BD51	green, yellow, black, brown, orange, red, white-yellow, white-black, blue, grey, brown-grey, brown-yellow, green-black, green-red, brown-red, brown-blue	Green	9,5	86	145,0	26
700656	(3 x 2 x 0,14 + 2 x 0,5)	Siemens	6FX 8008-1BD31	green, yellow, grey, pink, blue, red., white, brown, DIN 47100	Green	9,0	69	103,0	26
700653	(2 x 2 x 0,18)	Siemens	6FX 8008-1BD71	DIN 47100	Green	5,0	24	49,0	
700654	(4 x 2 x 0,18)	Siemens	6FX 8008-1BD61	DIN 47100	Green	6,4	35	68,0	
700655	(8 x 2 x 0,18)	Siemens	6FX 8008-1BD11	DIN 47100	Green	7,8	54	88,0	
78080	(4 x 2 x 0,25 + 2 x 0,5)	Indramat	INK-0448	brown, green, grey, pink, blue, violet, red, black, white, brown	Orange	8,5	64	95,0	24
78083	(4 x 2 x 0,25 + 2 x 1,0)	Indramat	INK-0209	brown, green, grey, pink, blue, violet, red, black, white, brown	Orange	8,8	74	130,0	24
78081	(4 x 2 x 0,38 + 4 x 0,5)	Siemens	6FX 8008-1BD21	orange, red, violet, blue, brown, black, yellow, green, white-red, white-yellow, white-black, white-blue	Green	9,8	83	135,0	21
79613	(5 x 2 x 0,38 + 2 x 0,5)	Siemens	-	DIN 47100, white, brown, DIN 47100	Green	8,6	69	120,0	21
700652	(9 x 0,5)	Indramat	INK-0208	DIN 47100	Orange	8,8	75	118,0	20

Dimensions and specifications may be changed without prior notice.