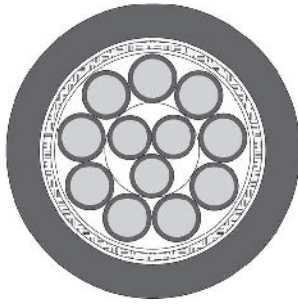


TOPGEBER 502 PUR, low capacitance (ca. 70 nF/km), high flexible drag chain feedback cable, halogen-free, EMC-preferred type



Technical data

- **Temperature range**
flexing -20°C to +80°C
fixed installation -40°C to +80°C
- **Nominal voltage**
0,14-0,34 mm²: 350 V
0,5-1,0 mm²: 500 V
- **A.c. test voltage**, 50 Hz
core/core 2000 V
core/screen 1000 V
- **Mutual capacitance**
core/core approx. 70 nF/km
core/screen approx. 110 nF/km
- **Insulation resistance**
min. 20 MOhm x km
- **Minimum bending radius**
approx. 12x cable Ø
- **Coupling resistance**
max. 250 Ohm/km

Cable construction

- Bare copper, ultra-fine conductors in acc. with DIN VDE 0295 cl. 6 and IEC 60228 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 fleece
- PUR outer sheath
- Sheath colour green (RAL 6018) according to DESINA®

Part No. 73551

- Construction as above, except
- Three 0,14 mm² pairs screened with tinned wire screen
- TPE inner sheath over screen

Part No. 78648

- Construction as above, except
- 0,25 mm² pairs and 0,5 mm² core screened with tinned wire screen
- PVC inner sheath over each element

Part No. 77654

- Construction as above, except
- Three 0,14 mm² pairs screened with PVC tinned wire screen (not halogen-free)

Properties

- PUR outer sheath: low adhesion, flame retardant, extremely abrasion resistant, halogen-free, resistant to UV, oil, hydrolysis and microbial attack
- 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
- **Colour code:**
Part Nos. 78372, 77303, 78648, 0,5 mm² wh, bn
Part No. 77654, 1,0 mm² wh, bn
Part No. 75126, 0,5 mm² whrd, whye, whbk, whbu
Part No. 73551, 0,5 mm² bnbu, bnrd
Part No. 78829, 0,5 mm² bk, vt, gypk, rdbu

Note

- 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.

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 ²	for system	SIEMENS / INDRAMAT Part No.	Core colours	Jacket colour	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
76413	(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
77654	(3 x 2 x 0,14 + 2 x 1,0)	Heidenhain	-	green, yellow, grey, pink, blue, red, white, brown, DIN 47100	Green	8,2	71	120,0	26
73551	(3 x 2 x 0,14 + 4 x 0,14 + 2 x 0,5)	-	-	green, yellow, black, brown, orange, red, white-yellow, white-black, blue, grey, brown-red, brown-blue	Green	9,1	92	120,0	26
78372	(3 x 2 x 0,14 + 2 x 0,5)	Heidenhain	-	green, yellow, grey, pink, blue, red, white, brown, DIN 47100	Green	7,2	35	80,0	26
78648	(3 x 2 x 0,25 + 2 x 0,5)	-	-	green, yellow, grey, pink, blue, red, white, brown, DIN 47100	Green	10,2	98	125,0	24
77303	(4 x 2 x 0,25 + 2 x 0,5)	Indramat	INK-0448	brown, green, grey, pink, blue, violet, red, black, white, brown	Green	8,5	64	95,0	24
78829	(4 x 2 x 0,38 + 4 x 0,5)	-	-	white, brown, green, yellow, grey, pink, blue, red, black, violet, grey-pink, red-blue, DIN 47100	Green	9,6	83	130,0	21
75126	(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

Dimensions and specifications may be changed without prior notice.