

# Tachofeedback-Cable-C-PUR, Incremental feedback-cable-C-PUR

drag chain cable, EMC-preferred type



## Technical data

- Special core and sheath compound of TPE-E/PUR
- **Temperature range**  
flexing -30°C to +80°C  
fixed installation -50°C to +80°C
- **Nominal voltage**  
Tachofeedback-cable-C-PUR = 450 V  
Incremental feedback-cable-C-PUR = 250 V
- **Test voltage**  
core/core 2000 V  
core/screen 1000 V
- **Insulation resistance**  
min. 20 MOhm x km
- **Minimum bending radius**  
10x cable Ø
- **Coupling resistance**  
max. 250 Ohm/km
- **Radiation resistance**  
up to 100x10<sup>6</sup> cJ/kg (up to 100 Mrad)

## Cable construction

- Bare copper, ultra-fine wire conductors acc. to DIN VDE 0295 cl. 6, BS 6360 cl. 6 and/or IEC 60228 cl. 6
- TPE-E-core insulation
- **Colour code**  
Tachofeedback-cable:  
blue, white, red, pink, green, yellow, brown, black, grey  
Incremental feedback-cable:  
brown, black/red, green/light-brown, white, pink/grey, violet/blue
- Single cores or pairs stranded in layer with optimal lay-length pairs part no. 22818)
- Fleece wrapping
- Drain wire
- Tinned copper braided screening, coverage approx. 85%
- Special PUR (polyurethane) outer sheath matt
- Sheath colour orange (RAL 2003)

## Properties

- Special PUR outer sheath low adhesion and flame retardant
- **Resistant to**  
Oils and fats  
Acids and alkalis  
Hydraulic fluids  
Oxygen and ozone  
UV-radiation  
Hydrolysis  
Microbial attack  
Water and weathering effects
- The high abrasion resistance and notch resistance meet the highest requirements
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## 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

Both cables fulfil differing tasks for the control of servo-motors.

The tachofeedback-cable or response cable serves the regulation of the motor speed and measurement of the actual values.

The incremental feedback-cable or position response cable transfers the control signals for positioning and engineering characteristics and is used as the flexible connecting cable for tachometer, brakes and pulse transmitter in case of high mechanical stress in plant, machine and control engineering in dry, moist and wet rooms. Particularly suitable for continuous operating in drag chains, industrial robotics and handling equipment as these cables enable an excellent transmission of data and signals. Additional cores for the power supply to individual components are available. The braided screen guarantees reliable signal transmission. Optimum functionality, long service life and an excellent cost-performance ratio are given for the mentioned applications by the special compounds used for insulation and sheath.

**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.

### Tachofeedback-cable

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
22823	(9 x 0,5)	8,8	80,8	128,0	20

### Incremental feedback-cable

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
22818	(4 x 2 x 0,25 + 2 x 1,0)	8,8	65,2	105,0	24

Dimensions and specifications may be changed without prior notice.