



Screened data transmission cable with PE core insulation and pairs in metalfoil

Data transmission cable with low capacitance, pair screening and overall copper braiding; Particularly suitable for wiring data systems and controls in large industrial plants; 7-wire stranded conductor can be used for Maxi TERMINAL POINT® wiring; Individually screened pairs and the overall braid minimise electrical interference; Decoupling of circuits by means of twisted-pair (TP) design (crosstalk effects)

- Metal foil screened pairs



Product description

Application range

- For enhanced requirements in near-end cross-talk attenuation and high electrical interference in the circuits
- Suitable for the transmission with varying in frequency and voltage or sensitive signals
- Can be used multifunctional in electronics of computer systems, electronic control equipment, office machines, balances, etc.
- For measurement value transmission and serial 2-wire interfaces
- Intended for limited flexible use, and for fixed installation in dry or damp interiors

Benefits

- Data transmission cable with low capacitance, pair screening and overall copper braiding
- Particularly suitable for wiring data systems and controls in large industrial plants

- 7-wire stranded conductor can be used for Maxi TERMI-POINT® wiring
- Individually screened pairs and the overall braid minimise electrical interference
- Decoupling of circuits by means of twisted-pair (TP) design (crosstalk effects)

Product Make-up

- 7-wire or fine wire (1mm²) bare stranded copper conductor
- Core insulation made of polyethylene (PE)
- Cores twisted into pairs
- Foil wrapping, static screening made of aluminium-laminated plastic film with copper drain wire for each pair
- Bare copper screen braiding
- Outer sheath made of PVC
Outer sheath colour: pebble grey (RAL 7032)

Product features

- Flame-retardant according IEC 60332-1-2

Technical Data

Core identification code	0.22 mm ² -0.5 mm ² : according to DIN 47100, see table T9 1.0 mm ² : a-core: white, b-core: black
Mutual capacitance	At 800 Hz: 0.22 mm ² : max. 70 nF/km 0.34 mm ² : max. 70 nF/km 0.5 mm ² : max. 75 nF/km 1.0 mm ² : max. 85 nF/km
Peak operating voltage Classification	(not for power applications) 250 V ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Inductivity	Approx. 0.4 mH/km
Conductor stranding	Stranded conductor, based on VDE 0881, 7-wire
Minimum bending radius	Occasional flexing: 20 x outer diameter Fixed installation: 10 x outer diameter
Test voltage	Core/core: 2000 V Core/screen: 1000 V
Temperature range	Occasional flexing: -5°C to +70°C Fixed installation: -40°C to +80°C
Characteristic impedance	approx. 85 Ohm (> 1 MHz)