UNITRONIC® CY PiDY (TP)

Screened data transmission cable with copper-wrapped twisted pairs

Decoupling of circuits by means of
twisted-pair (TP) design (crosstalk effects); Individually screened pairs and the overall braid minimise electrical interference

- PiDY = Pairs with copper wire wrapping and PVC sheath

RoHS

Product description

Application range

- Cable should be used in areas with high levels of electromagnetic interferences
- Data processing, process control systems, machining centres, security systems and electronics
- Suitable for the transmission with varying in frequency and voltage or sensitive signals
- For fixed installation and flexible use
- Dry or damp rooms

Benefits

- Decoupling of circuits by means of
  twisted-pair (TP) design (crosstalk effects)
- Individually screened pairs and the overall braid minimise electrical interference

UNITRONIC® CY PiDY (TP)

Product Make-up

- Fine-wire strand made of bare copper wires
- Core insulation made of PVC
- Cores twisted into pairs
- Copper wrapping over pairs
- Inner sheath made of PVC over screened pairs
- Tinned-copper braiding
- Outer sheath made of PVC
  Outer sheath colour: pebble grey (RAL 7032)

Norm references / Approvals

- Based on VDE 0812

Product features

- The cable remains flexible despite multiple screening
- Flame-retardant according IEC 60332-1-2

Technical Data

Core identification code	DIN 47100, refer to Appendix T9
Mutual capacitance	C/C: approx. 120 nF/km C/S: approx. 160 nF/km
Peak operating voltage	(not for power applications) 350 V
Classification	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Inductivity	approx. 0.65 mH/km
Conductor stranding	Stranded conductor, fine-wire
Minimum bending radius	Fixed installation: 6 x outer diameter
Test voltage	1200 V
Loop resistance	< 160 Ohm/km
Temperature range	Occasional flexing: -5°C to +70°C Fixed installation: -40°C to +80°C
Characteristic impedance	Approx. 65 Ohm