


0034250	DATA SHEET	
valid from: 01.01.2019	UNITRONIC® CY PiDY (TP)	

Application

UNITRONIC® CY PiDY (TP) is a screened data cable with individually screened and sheathed twisted pairs for fixed installation. The cable is used for data processing and control systems in process control. Due to the double shielding, the cable is suitable for laying in electromagnetically loaded areas.

Design

Design	Design based on standard VDE 0812
Conductor	fine wire strands of bare copper wires
Insulation	special PVC-based compound
Core identification code	according to DIN 47100
Stranding	screened and sheathed twisted pairs stranded in layers, wrapping with foil on the outer layer
Screen	over each twisted core: wrapping with plastic foil Braiding with tinned copper wires
	final screen: Braiding with tinned copper wires
Outer sheath	Sheath over each screened twisted pair: special PVC-based compound colour: grey (similar RAL 7032)
	Complete cable: special PVC-based compound colour: grey (similar RAL 7032)

Electrical properties at 20°C

Specific volume resistivity	> 20 G Ω x cm
Mutual capacitance	C/C: approx. 140 nF/km C/S (pair): approx. 280 nF/km C/S (outer): approx. 150 nF/km (at 800 Hz)
Inductance	approx. 0.65 mH/km
Peak operating voltage	250 V (not for power applications)
Test voltage	1200 V

Mechanical and thermal properties

Minimum bending radius	Fixed installation: 6 x cable \emptyset
Temperature range	Flexing: - 5 °C up to +70 °C Fixed installation: - 40 °C up to +80 °C
Flammability	flame retardant acc. to IEC 60332-1-2
General requirements	This cable is conform to the EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).

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