


<b>0032850</b>	<b>DATA SHEET</b>	
<b>valid from: 01.01.2019</b>	<b>UNITRONIC® PUR CP (TP)</b>	

## Application

UNITRONIC® PUR CP (TP) is a screened, twisted pair data cable for low frequency applications. The cable is designed for fixed installation and for conditional flexible use. It is used in dry, damp and wet interiors and appropriate for outside usage.

The twisted pairs with short lay lengths provides good decoupling of the conductor circuits. The screen provides protection against electromagnetic interferences.

This data and signal cable is used in computer systems, electronic control and office equipment.

The outer sheath of Polyurethane is resistant to a multitude of oils and chemicals.

## 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	cores twisted to pairs, pairs are stranded in layers, wrapping with foil on the outer layer
Screen	Braiding with tinned copper wires, wrapping with fleece on the screen
Outer sheath	special PUR-based compound colour: pebble grey (similar RAL 7032)

## Electrical properties at 20°C

Specific volume resistivity	> 20 G $\Omega$ x cm
Mutual capacitance	C/C: approx. 120 nF/km C/S: approx. 160 nF/km (at 800 Hz)
Inductance	approx. 0.65 mH/km
Peak operating voltage	0.14 mm <sup>2</sup> : 350 V (not for power applications) ≥ 0.25 mm <sup>2</sup> : 500 V (not for power applications)
Test voltage	0.14 mm <sup>2</sup> : 1200 V ≥ 0.25 mm <sup>2</sup> : 1500 V

## Mechanical and thermal properties

Minimum bending radius	Flexing: 15 x cable $\emptyset$ 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
UV resistance	according to ISO 4892-2, method A (change of colour allowed)
Ozone resistance	according to EN 50396 resp. VDE 0473-396, method B
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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