## **DATA SHEET**



# **UNITRONIC® PUR CP (TP)**

DB0032850 valid from: 07.03.2013

### **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

Conductor fine wire strands of bare copper wires

Insulation special PVC-based compound

Core identification code according to DIN 47 100

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 (RAL 7032)

#### Electrical properties at 20°C

Conductor resistance 0.14 mm<sup>2</sup> 148.0  $\Omega$ /km max.

0.25 79.9 0.34 57.5 0.5 class 5 0.75 class 5

Specific insulation resistance  $> 20 \text{ G} \Omega \text{ x cm}$ 

Mutual capacitance C/C: approx. 120 nF/km

C/S: approx. 160 nF/km

(at 800 Hz)

Inductivity approx. 0.65 mH/km

Peak working 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 Ø

Fixed installation: 6 x cable Ø

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 EC directive This cable is conform to the EC-Directive 2011/65/EC

(RoHS, Restriction of the use of certain hazardous substances).

Design based on standard VDE 0812

Originator:	PESA / PDC	Dogument	DB0032850DE	page 1 of 1
approved:	HAPF / PDC	Document:	DB0032830DL	page 1 of 1