

**UNITRONIC® 100****DB0028009**  
valid from: 07.08.2013**Application**

UNITRONIC® 100 is a control and signal cable with small cross-sections for fixed installation as well as occasional flexing at free, non-continuously recurring movement without tensile load. It is used in dry, damp and wet interiors but it is not appropriate for outside usage.

The cables are used in the milliampere range for computer systems, electronic control equipment, office machines, balances etc. and wherever the thinnest possible control cables are required.

**Design**

Conductor	fine wire strands of bare copper wires
Insulation	special PVC-based compound
Core identification code	according to UNITRONIC® colour code
Stranding	cores are stranded in layers
Outer sheath	special PVC-based compound colour: grey (RAL 7001)

**Electrical properties at 20°C**

Conductor resistance	0.14 mm <sup>2</sup>	148.0 Ω/km max.
	0.25	79.9
	0.34	57.5
Specific insulation resistance	> 20 G Ω x cm	
Mutual capacitance	C/C: approx. 120 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:	4 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	
EC directive	This cable is conform to the EC-Directive 2002/95/EC (RoHS, Restriction of the use of certain hazardous substances).	

Design based on standard VDE 0812