

0033000	<b>DATA SHEET</b>	
valid from: 01.01.2019	<b>UNITRONIC® ST</b>	

## Application

UNITRONIC® ST is a data cable with low capacitance. The cable can be used as a signal-, control- and measuring cable as well as for transmission of low, sensitive signals. The static screen protects against electromagnetic interferences. At room temperature it is widely resistant to acids, alkali-resistant and resistant to certain oils.

The cable is designed for fixed installation in dry, damp and wet interiors and for conditional flexible use.

## Design

Design	Design similar to AWM Style 2092 respectively 2093
Conductor	7-wire strands of tinned copper wires
Insulation	special Polyolefin-based compound (PE)
Core identification code	2 cores: black, clear 3 cores: black, red, clear
Stranding	cores twisted together
Screen	one layer aluminium laminated plastic foil, tape metal side outside with tinned copper drain wire
Outer sheath	special PVC-based compound colour: grey, similar RAL 7032

## Electrical properties at 20°C

Loop resistance	max. 31.2 Ω/km
Specific volume resistivity	> 5 G Ω x km
Mutual capacitance	C/C approx. 90 nF/km C/S approx. 160 nF/km (at 800 Hz)
Inductance	approx. 0.65 mH/km
Characteristic impedance	approx. 95 Ω (> 1 MHz)
Peak operating voltage	500 V or 600 V acc. to UL (not for power applications)
Test voltage	1500 V

## Mechanical and thermal properties

Minimum bending radius	Flexing: 10 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
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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