

0033000	DATA SHEET	
valid from: 01.01.2019	UNITRONIC® ST	

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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