
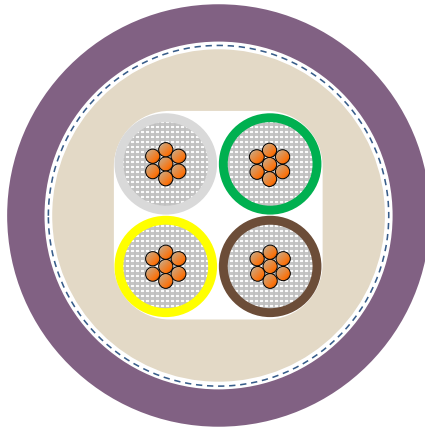


2170857	<b>DATA SHEET</b>	
valid from: 2025-12-19	<b>UNITRONIC® BUS CAN TRAY 1x4x 0.34 mm<sup>2</sup></b>	

## Application

Data cable for the CAN bus system (Controller Area Network) acc. to ISO 11898 with UL/CSA approval and for data bus systems with 120 Ohm impedance. The cable is intended for fixed installation in dry and damp interiors and for direct burial.



## Design

Certification	c(UL)us type CMG (75 °C) acc. to UL 444 and CSA C22.2 No. 217-02; UL type PLTC-ER acc. to UL 13; UL AWM style 21695 (PVC, 80 °C, 600 V, internal wiring); Desina listed
Conductor	fine-wire stranded bare copper, ca. 0.34 mm <sup>2</sup> (ca. 22AWG), 7-wire
Insulation	foam skin PO, core diameter ca. 1.8 mm
Core identification code	white, yellow, brown, green
Stranding	cores stranded to star quad
Screen	braid of tinned copper wires (coverage: nom. 85 %)
Taping	one layer plastic foil (optional)
Outer sheath	PVC, grey, Inner sheath outer $\varnothing$ : ca. 4.5 mm on top outer sheath PVC, violet, outer $\varnothing$ : ca. 7.5 mm

## Electrical properties at 20 °C

Loop resistance	max. 110,8 $\Omega$ /km
Insulation resistance	min. 5 G $\Omega$ xkm
Mutual capacitance	ca. 40 nF/km (at 800 Hz)
Characteristic impedance	1 MHz: 120 $\Omega$ $\pm$ 12 $\Omega$
Attenuation	1 MHz: $\leq$ 1.9 dB/100 m 4 MHz: $\leq$ 3.3 dB/100 m 10 MHz: $\leq$ 5.2 dB/100 m 16 MHz: $\leq$ 6.1 dB/100 m 20 MHz: $\leq$ 7.3 dB/100 m
Near-end cross-talk	1 MHz: $\geq$ 65 dB/100 m 10 MHz: $\geq$ 55 dB/100 m 20 MHz: $\geq$ 50 dB/100 m
Maximum operating voltage	250 V (not intended to be used in conjunction with low impedance sources, such as power grids)
Rated voltage	UL/CSA: 600 V
Test voltage	core/core: 2000 V core/screen: 2000 V

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### Mechanical and thermal properties

Minimum bending radius	fixed installation: 8× outer diameter occasional flexing: 15× outer diameter
Temperature range	fixed installation: -10°C up to +70°C occasional flexing: -40°C up to +80°C
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2 FT1 (Vertical Flame Test) acc. to UL 758 §43 FT4 (Vertical-Tray Flame Test) acc. to UL 444 §7.14.3 resp. UL 13 §28.3
Weather and UV resistance	SUN RES acc. to UL 13 §29.1
Oil resistance	OIL RES I acc. to UL 13 §40.2
General requirements	This cable is conform to the EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).
<b>Environmental information</b>	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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