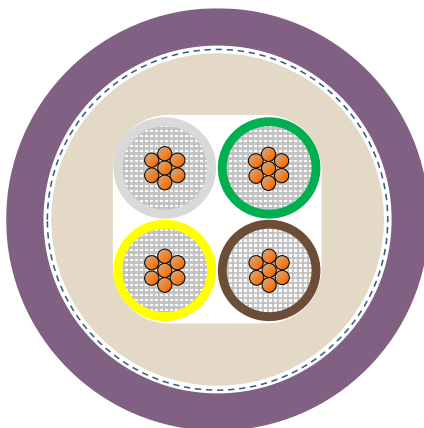


2170857	DATA SHEET	
valid from: 2025-12-19	UNITRONIC® BUS CAN TRAY 1x4x 0.34 mm²	

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 ² (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 Ø: ca. 4.5 mm on top outer sheath PVC, violet, outer Ø: ca. 7.5 mm

Electrical properties at 20 °C

Loop resistance	max. 110,8 Ω/km
Insulation resistance	min. 5 GΩxkm
Mutual capacitance	ca. 40 nF/km (at 800 Hz)
Characteristic impedance	1 MHz: 120 Ω ±12 Ω
Attenuation	1 MHz: ≤ 1.9 dB/100 m 4 MHz: ≤ 3.3 dB/100 m 10 MHz: ≤ 5.2 dB/100 m 16 MHz: ≤ 6.1 dB/100 m 20 MHz: ≤ 7.3 dB/100 m
Near-end cross-talk	1 MHz: ≥ 65 dB/100 m 10 MHz: ≥ 55 dB/100 m 20 MHz: ≥ 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).
Environmental information	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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