

DATA SHEET

UNITRONIC® BUS CAN UL/CSA 2 x 2 x 0.34 mm²

2170264

valid from:

06.11.2003

Application

UNITRONIC® BUS CAN UL/CSA is a data cable with UL and CSA approval, for **CAN** (Controller **A**rea **N**etwork) fieldbus system according to ISO11898 as well as for high performance data networks with 120 Ohms nominal impedance. The second pair can be used for electrical power supply for the logical bus units. The transmission characteristics of the cable conform to the CAN system and guarantee a high operating security during data transmission. UNITRONIC® BUS UL/CSA is intended for permanent installation and conditional flexible use in dry and damp interiors.

Approval: UL / CSA type CMX according to UL 444 and CSA C22.2 No.214-02.

Design

Conductor seven-wire strands of bare copper, 0.34mm², (22AWG) Insulation cellular PE or foam skin, core diameter approx. 1.7 mm

Colour code <u>pair 1</u> white and brown, <u>pair 2</u> green and yellow (acc. DIN 47100)

Twisting 2 cores twisted into pairs, 2 pairs arranged to the cable core

Wrapping plastic foil

Screening braid of tinned copper wires
Sheath PVC, violet, OD approx. 8.5 mm

LAPP KABEL STURGART UNITRONIC® BUS CAN 2 x 2 x 0,34 (UL) CMX 75°C AWG 22 (SHIELDED) ART. 2170264

Electrical properties at 20° C

Loop resistance Insulation resistance			max. Ω/km min. GΩxkm	115 5
Mutual capacitance	at	800 Hz	nom. nF/km	40
Impedance		> 1 MHz	Ω	120 ± 15
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Line attenuation	at		nom. dB/100 m	0.4
	at	1 MHz	nom. dB/100 m	1.3
	at	5 MHz	nom. dB/100 m	3.0
	at	10 MHz	nom. dB/100 m	4.3
	at	20 MHz	nom. dB/100 m	6.4
Near end cross talk attenuation (NEXT)	at	1 MHz	min. dB	50
	at	20 MHz	min. dB	40
Nominal velocity of propagation			%	76
Signal delay			ns/m	4.4
Transfer impedance	at	30 MHz	max. mΩ/m	250
Peak operation voltage (not for purposes of	250			
Test voltage core/core	-	-	$U_{eff} V$	1500
core/screen			U_{eff} V	1000

Mechanical and thermal properties

elaborated by:			
TE-K: M. Herb	Document:	DB2170264_2EN	page 1 of 1

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