



DATA SHEET	2170263
UNITRONIC® BUS CAN UL/CSA 1 x 2 x 0.34 mm²	valid from : 06.11.2003

Application

UNITRONIC® BUS CAN UL/CSA is a data cable with UL and CSA approval, for **CAN (Controller Area Network)** fieldbus system according to ISO11898 as well as for high performance data networks with 120 Ohms nominal impedance. The transmission characteristics of the cable conform to the CAN system and guarantee a high operating security during data transmission. The possible data transmission acc. to ISO 11898 for max. 40m is 1 Mbit/s.

UNITRONIC® BUS UL/CSA is intended for permanent installation and conditional flexible use in dry and damp interiors.

Design

Conductor	seven-wire strands of bare copper, 0.34mm ² , (22AWG)
Insulation	cellular PE or foam skin, core diameter approx. 2.0 mm
Colour code	white and brown (acc. DIN 47100)
Twisting	2 cores twisted into a pair
Wrapping	plastic foil
Screening	braid of tinned copper wires
Sheath	PVC, violet, OD approx. 6.8 mm

LAPP KABEL STUTTGART **UNITRONIC® BUS CAN** 1 x 2 x 0,34 (UL) CMX 75°C AWG 22 (SHIELDED)
ART. 2170263

Electrical properties at 20° C

Loop resistance		max. Ω/km	115
Insulation resistance		min. GΩxkm	5
Mutual capacitance	at 800 Hz	nom. nF/km	40
Impedance	at > 1 MHz	Ω	120 ± 15
Line attenuation	at 100 kHz	nom. dB/100 m	0.4
	at 1 MHz	nom. dB/100 m	1.3
	at 5 MHz	nom. dB/100 m	3.1
	at 10 MHz	nom. dB/100 m	4.3
	at 20 MHz	nom. dB/100 m	6.4
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 power/high voltage current)		V	250
Test voltage	core/core	U _{eff} V	1500
	core/screen	U _{eff} V	1000

Mechanical and thermal properties

Minimum bending radius	moved	cable diameter x	10
Permissible temperature range	moved	°C	- 5 to + 70
	static	°C	- 30 to + 80
Flame propagation	flame retardant acc. to VDE 0482, part 265-2-1 / IEC 60 332-1		

elaborated by: TE-K: M. Herb	Document: DB2170263_2EN	page 1 of 1
---------------------------------	-------------------------	-------------