

DATA SHEET

UNITRONIC® BUS FD P CAN UL/CSA 1 x 2 x 0.34 mm²

2170275

valid from:

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Application

UNITRONIC® BUS FD P CAN UL/CSA is a highly flexible data cable with UL and CSA approval, for **CAN** (**C**ontroller **A**rea **N**etwork) 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.

UNITRONIC® BUS FD P CAN UL/CSA is intended for high flexible application in power chains, or permanently moving machines, in dry and damp interiors and in harsh industrial environment.

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

Design

Conductor fine-wire stranded, 0.34mm² (22AWG) of bare copper

Insulation foam skin, core diameter approx. 2,1 mm Colour code white and brown (acc. DIN 47100)

Twisting 2 cores twisted into a pair

Wrapping non-woven tape

Screening braid of tinned copper wires

Sheath PUR, halogen free, flame retardant, violet, OD approx. 6.9 mm

Electrical properties at 20°C

Loop resistance)			max. Ω/km	122
Insulation resist	tance			min. GΩxkm	5
Mutual capacita	ance a	ıt	800 Hz	nom. nF/km	40
Impedance	a	ıt	> 1 MHz	Ω	120 ± 15
Line attenuation	n a	ιt	100 kHz	nom. dB/100 m	0.4
	a	ıt	1 MHz	nom. dB/100 m	1.2
	а	at	5 MHz	nom. dB/100 m	4.0
	a	ıt	10 MHz	nom. dB/100 m	6.6
	a	ıt	20 MHz	nom. dB/100 m	9.0
Nominal velocity of propagation				%	76
Signal delay				ns/m	4,4
Transfer impedance		ıt	10 MHz	max. $m\Omega/m$	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 characteristics

Minimum bending radius	moved	cable diameter x	15
Permissible temperature range	moved	$^{\circ}$	- 30 to + 70
	static	$^{\circ}$	- 40 to + 80
Flame propagation	flame retardant	acc. to IEC 60 332-1-2 /	UL 1581 VW-1

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TE-K: P. Samek	Document:	DB2170275EN.doc	page 1 of 1

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