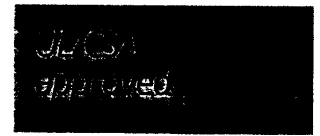


# UNITRONIC® BUS CAN

## UL/CSA approved



### Application

**CAN (Controller Area Network)** was originally developed for the networking of automobiles, but is in the meantime being used more and more in industrial application technology fields.

CAN is internationally standardized in ISO 11898. Maximum bitrate: 1 MBit/s at 40 m segment length. With increasing segment length, a higher cable cross-section must be used (see recommended values of ISO 11898).

### Cable Make-Up

#### UNITRONIC® BUS CAN

7-wire strands of bare copper wire, cores twisted into pairs and pairs into layers; colour coded acc. to DIN 47100; wrapping of plastic foil; screen braiding of copper wire; outer sheath of PVC-compound; flame retardant according to VDE 0472 Part 804, test method B (IEC 332.1); violet (RAL 4001).

#### UNITRONIC® BUS FD P CAN

Superfine wire strands of bare copper wire, cores twisted into pairs and pairs into layers; wrapping; screen braiding of copper wire; outer sheath of PUR-compound; flame-retardant according to VDE 0472 Part 804, test method B (IEC 332.1); violet (RAL 4001).

**CAN**open

**CiA**

LAPP KABEL is a member of user organisation CAN in Automation (CiA).

### Note:

For the segment length, cable cross-section and bitrate, ISO 11898 makes the following recommendations:

Segment-length	Cable cross-section	Maximum bitrate
0...40 m	0,25 mm <sup>2</sup> , 0,34 mm <sup>2</sup> AWG23, AWG22	1 MBit/s of 40 m
40 m...300 m	0,34 mm <sup>2</sup> ...0,6 mm <sup>2</sup> AWG22, AWG20	> 500 kBit/s of 100 m
300 m...600 m	0,5 mm <sup>2</sup> , 0,6 mm <sup>2</sup> AWG20	> 100 kBit/s of 500 m
600 m...1 km	0,75 mm <sup>2</sup> , 0,8 mm <sup>2</sup> AWG18	> 50 kBit/s of 1 km

Characteristic impedance 120 Ohm

Part number	Type	No. of pairs and conductor cross section in mm <sup>2</sup>	Approx. Outer diameter in mm	Copper weight kg/km	Approx weight kg/km.
<b>for stationary application</b>					
2170 260	UNITRONIC® BUS CAN	1x2x0,22	5,7	16,7	42
2170 261	UNITRONIC® BUS CAN	2x2x0,22	7,6	34,8	68
2170 263	UNITRONIC® BUS CAN	1x2x0,34	6,8	22,1	55
2170 264	UNITRONIC® BUS CAN	2x2x0,34	8,5	46,4	88
2170 266	UNITRONIC® BUS CAN	1x2x0,5	7,5	41,6	90
2170 267	UNITRONIC® BUS CAN	2x2x0,5	9,7	59,4	106
2170 269	UNITRONIC® BUS CAN	1x2x0,75	8,7	52,7	108
2170 270	UNITRONIC® BUS CAN	2x2x0,75	11,5	80,6	142
<b>for highly flexible application</b>					
2170 272	UNITRONIC® BUS FD P CAN	1x2x0,25	6,4	17,5	40
2170 273	UNITRONIC® BUS FD P CAN	2x2x0,25	8,4	41,3	70
2170 275	UNITRONIC® BUS FD P CAN	1x2x0,34	6,8	32,8	60
2170 276	UNITRONIC® BUS FD P CAN	2x2x0,34	9,6	52,4	88
2170 278	UNITRONIC® BUS FD P CAN	1x2x0,5	8,0	41,9	74