

## UNITRONIC® BUS CAN

CAN Buscables for fixed installation - UL/SCA certified

For CAN based communication systems like CANopen, flame retardant acc. IEC 60332-1-2, temperature range from -40°C up to +80°C

### Info

CAN = Controller Area Network

LAPP KABEL STUIGART UNITRONIC® BUS CAN 



Supplementary automation components from Lapp



Mechanical and plant engineering

### Application range

Fixed Installation

### Product features

Maximum bit rate: 1 Mbit/s for 40 m segment length

Larger conductor cross-section is necessary with increasing length. Refer to the table below (reference values from ISO 11898). ISO 11898 makes recommendations for the segment length, cable cross section and bit rate

Flame-retardant according IEC 60332-1-2

### Norm references / Approvals

Standardised internationally in ISO 11898

UL/CSA type CMX (UL 444)

### Product Make-up

0.22 + 0.34 + 0.5: bare stranded conductor, 7-wire

0.75: bare stranded conductor, fine-wire

Core insulation: foam skin

Colour-coded in accordance with DIN 47100

Last Update (22.10.2021)

©2021 Lapp Group - Technical changes reserved

Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02\_03.16

## UNITRONIC® BUS CAN

Copper braid  
Outer sheath: PVC, violet (RAL 4001)

### Technical Data

|                           |   |
|---------------------------|---|
| Classification ETIM 5:    | ETIM 5.0 Class-ID: EC000830<br>ETIM 5.0 Class-Description: Data cable |
| Classification ETIM 6:    | ETIM 6.0 Class-ID: EC000830<br>ETIM 6.0 Class-Description: Data cable |
| Mutual capacitance:       | (800 Hz) max. 40 nF/km  |
| Peak operating voltage:   | (not for power applications) 250 V                                    |
| Conductor resistance:     | (loop): max. 186 ohm/km   |
| Minimum bending radius:   | Fixed installation: 8 x outer diameter                                |
| Test voltage:             | Core/core: 1500 V rms   |
| Characteristic impedance: | 120 ohm   |
| Temperature range:        | Fixed installation: -30°C to +80°C<br>Flexing: -5°C to +70°C          |

### Note

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: coil  $\leq$  30 kg or  $\leq$  250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

Prices are net prices without VAT and surcharges. Sale to business customers only.

**UNITRONIC® BUS CAN**

| Article number         | Article designation | Number of pairs/conductor cross section (mm <sup>2</sup> ) | Outer diameter [mm] | Conductor resistance | Copper index (kg/km) | Weight (kg/km) |
|------------------------|---------------------|--|---------------------|----------------------|----------------------|----------------|
| for fixed installation |                     |  |                     |                      |                      |                |
| 2170260                | UNITRONIC® BUS CAN  | 1 x 2 x 0.22   | 5.7                 | 186                  | 16.7                 | 42             |
| 2170261                | UNITRONIC® BUS CAN  | 2 x 2 x 0.22   | 7.6                 | 186                  | 34.8                 | 68             |
| 2170263                | UNITRONIC® BUS CAN  | 1 x 2 x 0.34   | 6.8                 | 115                  | 25                   | 55             |
| 2170264                | UNITRONIC® BUS CAN  | 2 x 2 x 0.34   | 8.5                 | 115                  | 46.4                 | 88             |
| 2170266                | UNITRONIC® BUS CAN  | 1 x 2 x 0.5  | 7.5                 | 78                   | 41.6                 | 90             |
| 2170267                | UNITRONIC® BUS CAN  | 2 x 2 x 0.5  | 9.6                 | 78                   | 59.4                 | 106            |
| 2170269                | UNITRONIC® BUS CAN  | 1 x 2 x 0.75   | 8.7                 | 52                   | 52.7                 | 108            |
| 2170270                | UNITRONIC® BUS CAN  | 2 x 2 x 0.75   | 11.5                | 52                   | 80.6                 | 142            |

Last Update (22.10.2021)

©2021 Lapp Group - Technical changes reserved

Product Management [www.lappkabel.de](http://www.lappkabel.de)You can find the current technical data in the corresponding data sheet.  
PN 0456 / 02\_03.16