

# UNITRONIC® BUS CAN FD P

CAN Buscables for high flexible application - UL/SCA certified

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



Supplementary automation components from Lapp



Mechanical and plant engineering



Halogen-free



Power chain



UV-resistant

## Application range

For highly flexible applications

## Product features

Halogen-free

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)

Last Update (31.12.2023)

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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 FD P

### Product Make-up

Stranded bare conductor  
Core insulation: foam skin  
Copper braid  
Outer sheath: PUR, violet (RAL 4001)  
UV-resistant (but colour may change after some time)

### Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000830 ETIM 6.0 Class-Description: Data cable
Mutual capacitance:	(800 Hz) max. 40 nF/km
Peak operating voltage:	250 V (not for power transmission)
Conductor resistance:	(loop): max. 159.8 ohm/km
Minimum bending radius:	Flexing: 15 x outer diameter
Test voltage:	Core/core: 1500 V rms
Characteristic impedance:	120 ohm
Temperature range:	Fixed installation: -40 °C to +80 °C Flexing: -30 °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 ≤ 30 kg or ≤ 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 FD P**

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 highly flexible applications (power chains, moving machine parts)						
2170272	UNITRONIC® BUS CAN FD P	1 x 2 x 0.25	6.4	159.8	24	40
2170273	UNITRONIC® BUS CAN FD P	2 x 2 x 0.25	8.4	159.8	33	65
2170275	UNITRONIC® BUS CAN FD P	1 x 2 x 0.34	6.8	122	32.8	60
2170276	UNITRONIC® BUS CAN FD P	2 x 2 x 0.34	9.6	122	52.4	88
2170278	UNITRONIC® BUS CAN FD P	1 x 2 x 0.5	8	72.8	41.9	74
2170279	UNITRONIC® BUS CAN FD P	2 x 2 x 0.5	10.1	72.8	59.4	100