

## UNITRONIC® BUS LD

For bus systems such as Modbus, SUCOnet, Modulink, VariNet. Flame-retardant, UL approval, colour code according to DIN 47100. Temperature range from -40°C to +80°C

### Info

LD is a LAPP abbreviation for long distance



Industrial machinery and plant engineering



Automation & fältinstallation

### Benefits

Suitable for multiple bus systems based on RS485 / RS422

### Application range

For fixed installation

Maximum electromagnetic screening

Bus cables for bus systems such as Modbus, SUCOnet P, Modulink P, VariNet-P)

Dry or damp rooms

### Product features

The stated bit rates result in the following cable lengths (maximum) for a bus segment:

9.6-93.75 kbit/s = 1200m

187.5 kBit/s = max. 1000 m

500 kbit/s = max. 400 m

Flame-retardant according to IEC 60332-1-2

### Norm references / approvals

UL version with certification:

UL/CSA type CMX in accordance with UL 444 and CSA C22.2 no. 214-02

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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 LD

### Design

7-wire strand, bare, colour-coded according to DIN 47100

Copper braiding

PVC sheath

Colour: violet (RAL 4001)

UNITRONIC® BUS LD A like UNITRONIC® BUS LD, but with UL/CSA certification

### Technical Data

Classification:	ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable
Operating capacitance:	Flexible use: 10 x outer diameter
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 eff.
Characteristic impedance:	100 – 120 ohm
Temperature range:	Fixed installation: -40°C to +80°C Flexing: -5°C to +70°C

### Note

Unless otherwise specified, the product values shown are nominal values. You can receive further values, such as tolerances, upon request if they are available and have been released for publication.

Copper price basis: EUR 150/100 kg; see catalogue appendix T17 for the application and definition of "Metal price basis" and "Metal index"

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

Packaging: Ring ≤ 30 kg or ≤ 250 m, otherwise drum

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

Modbus is registered by the Modbus-IDA Organisation. SUCOnet P is a registered trademark of the Moeller Group. Modulink

P is a registered trademark of Weidmüller GmbH & Co. VariNet is a registered trademark of Pepperl+Fuchs GmbH

Photographs 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 LD**

Article number	Article designation	Number of pairs and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
for fixed installation					
2170203	UNITRONIC® BUS LD	1 x 2 x 0.22	5.7	18	37
2170204	UNITRONIC® BUS LD	2 x 2 x 0.22	7.1	28	45
2170205	UNITRONIC® BUS LD	3 x 2 x 0.22	7.2	37	72
For fixed installation - UL/CSA CMX certification					
2170803	UNITRONIC® BUS LD A	1 x 2 x 0.22	5.7	18	39

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