

# **UNITRONIC® BUS LD**

Flexible buscable with PVC outer sheath, for use in different bussystems

For bus systems like e.g. Modbus, SUCOnet, Modulink, VariNet. Flame retardant, UL- approval, Core indet. code DIN 47100. Temperature range from -40°C bis +80°C

#### Info

LD is a LAPP abbreviation for long distance

LAPP KABEL STUTIGART UNITRONIC® BUS LD





Mechanical and plant engineering



Kompletterande automationskomponenter från Lapp

## **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 e.g. Modbus, SUCOnet P, Modulink P, VariNet-P)
Dry or damp rooms

## **Product features**

The stated bit rates result in the following cable lengths (maximum) of one bus segment: 9.6-93.75 kbit/s = 1200 m 187.5 kbit/s = max. 1,000 m 500 kbit/s = max. 400 m

## Norm references / Approvals

UNITRONIC® BUS LD A: UL versions with certification:

Last Update (16.05.2019)
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Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02\_03.16



# UNITRONIC® BUS LD

UL/CSA type CMX acc. to UL 444 and CSA C22.2 no. 214-02

Flame retardant acc. to IEC 60332-1-2

## **Product Make-up**

Stranded conductor, bare, 7-wire

Core insulation: PE Colour code DIN 47100

Overall screening of braided tinned-copper strands

Outer sheath: PVC, violet (RAL 4001)

### **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: 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 rms

Characteristic impedance: 100 - 120 Ohm

Temperature range: Fixed installation: -40°C to +80°C

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

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).

Modubus is owned 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 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.

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