

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



Supplementary automation components from Lapp



Mechanical and plant engineering

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 = 1200m

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 (29.09.2021)

©2021 Lapp Group - Technical changes reserved

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 \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).

Modbus 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.

UNITRONIC® BUS LD

| Article number | Article designation | Number of pairs and mm ² 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 |

Last Update (29.09.2021)

©2021 Lapp Group - Technical changes reserved

Product Management www.lappkabel.de

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

PN 0456 / 02_03.16