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 (16.03.2025)
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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

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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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PRODUCT INFORMATION

Article number	Article designation	Number of pairs and mm² 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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