



## UNITRONIC® BUS LD

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



### Info

- LD is a LAPP abbreviation for long distance

### 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:  
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

	<b>Classification ETIM 5/6</b> ETIM 5.0/6.0 Class-ID: EC000830 ETIM 5.0/6.0 Class-Description: Data cable
	<b>Mutual capacitance</b> Flexible use: 10 x outer diameter
	<b>Peak operating voltage</b> (not for power applications) 250 V
	<b>Conductor resistance</b> (loop): max. 186 Ω/km
	<b>Minimum bending radius</b> Fixed installation: 8 x outer diameter
	<b>Test voltage</b> Core/core: 1500 V rms
	<b>Characteristic impedance</b> 100 - 120 Ω
	<b>Temperature range</b> Fixed installation: -40°C to +80°C Flexing: -5°C to +70°C

Article number	Article designation	Number of pairs and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>for fixed installation</b>					
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
<b>For fixed installation - UL/CSA CMX certification</b>					
2170803	UNITRONIC® BUS LD A	1 x 2 x 0,22	5.7	18	39

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).

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