Data communication systems

Cables for bus systems RS485/RS422

Characteristic impedance: 100 - 120 ohm









® LAPP GROUP



UNITRONIC® BUS LD

LAPP KABEL STUTTGART UNITRONIC BUS LD





LD is a LAPP abbreviation for long

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
- Flame-retardant according IEC 60332-1-2

■ Norm references / Approvals

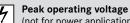
UL variant has approval: UL/CSA type CMX acc. to UL 444 and CSA C22.2 no. 214-02

■ Product make-up

- Stranded bare 7-wire conductor, colourcoded according to DIN 47100
- Copper braid
- PVC sheath
- Colour: violet (RAL 4001)
- UNITRONIC® BUS LD A as UNITRONIC® BUS LD, but with UL/CSA approval

■ Technical data

Mutual capacitance (800 Hz): max. 60 nF/km



(not for power applications) 250 V

Conductor resistance þ (loop): max. 186 ohm/km

Minimum bending radius Fixed installation: 8 x outer diameter

Test voltage 4 Core/core: 1500 V rms

Temperature range Fixed installation: -40°C to +80°C Flexing: -5°C to +70°C

Characteristic impedance Z 100 - 120 Ohm

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	18.0	37
2170204	UNITRONIC® BUS LD	2 x 2 x 0,22	7.1	28.0	45
2170205	UNITRONIC® BUS LD	3 x 2 x 0,22	7.2	37.0	72
For fixed installation - UL/CSA CMX approval					
2170803	UNITRONIC® BUS LD A	1 x 2 x 0,22	5.7	18.0	39

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100kg. 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 are not to scale and do not represent detailed images of the respective products.