

UNITRONIC® BUS LD FD P

Highly flexible buscable with PUR 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 FD P







Supplementary automation components from Lapp



Mechanical and plant engineering



Power chain

Benefits

Suitable for multiple Bus systems based on RS485 / RS422

PUR outer sheath, tear and notch-resistant, resistant to mineral oils and abrasion when used in power chains Under consideration of the temperature range also suitable for outdoor use

Application range

For highly flexible applications (power chains, moving machine parts)
Bus cables for bus systems such as e.g. Modbus, SUCOnet P, Modulink P, VariNet-P)

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 UV-resistant (but colour may change after some time)

Last Update (14.03.2025)
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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



UNITRONIC® BUS LD FD P

Norm references / Approvals

UNITRONIC® BUS LD FD P A: UL versions with certification: UL/CSA type CMX acc. to UL 444 and CSA C22.2 no. 214-02 Flame-retardant according IEC 60332-1-2

Product Make-up

Extra-fine wire strand made of bare copper Colour code DIN 47100 Core insulation: PE

Overall screening of braided tinned-copper strands

Outer sheath: PUR, 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: (800 Hz) max. 60 nF/km

Peak operating voltage: (not for power applications) 250 V

Conductor resistance: (loop): max. 159.8 ohm/km

Minimum bending radius: Fixed installation: 6 x core diameter

One bend at end of core: 3 x cable diameter

Flexing: 15 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: -30°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.

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Prices are net prices without VAT and surcharges. Sale to business customers only.

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Article number Article designation Number of pairs and mm² per Outer diameter [mm] Copper index (kg/km) Weight (kg/km) conductor For highly flexible applications 2170213 UNITRONIC® BUS LD FD P | 1 x 2 x 0.25 6 18 39 2170214 UNITRONIC® BUS LD FD P 2 x 2 x 0.25 7.9 33 65 77 8 39 2170215 UNITRONIC® BUS LD FD P 3 x 2 x 0.25 For highly flexible applications - with UL/CSA CMX certification 2170813 UNITRONIC® BUS LD FD 1 x 2 x 0.25 6.2 18 39 PΑ 33 65 2170814 UNITRONIC® BUS LD FD 2 x 2 x 0.25 8.3 РΑ 77 2170815 UNITRONIC® BUS LD FD 3 x 2 x 0.25 8.4 39 РΑ