

**Data communication systems** Cables for bus systems RS485/RS422

Characteristic impedance: 100 - 120 ohm



# UNITRONIC® BUS LD FD P





LD is a LAPP abbreviation for long distance

## LAPP KABEL STU∏GART UNITRONIC® BUS LD FD P



### Benefits

- PUR outer sheath, tear and notch-resistant, resistant to mineral oils and abrasion when used in power chains
- UL variant has approval: UL/CSA type CMX acc. to UL 444 and CSA C22.2 no. 214-02
- Suitable for multiple Bus systems based on RS485 / RS422

## 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 = 1200m
- 187.5 kbit/s = max. 1,000 m
- 500 kBit/s = max. 400 m
- Flame-retardant according IEC 60332-1-2

#### Product make-up

- Stranded conductor, bare, core identification code in accordance with DIN 47100
- Copper braid
- PUR outer sheath
- Colour: violet (RAL 4001)
- UV-resistant (but colour may change after some time)

#### ■ Technical data

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



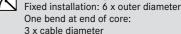
Peak operating voltage (not for power applications) 250 V



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



Minimum bending radius



Flexing: 15 x outer diameter



Test voltage

Core/core: 1500 V rms



Temperature range Fixed installation: -40°C to +80°C Flexing: -30°C to +70°C



Characteristic impedance 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 highly flexible applications (power chains, moving machine parts)					
2170213	UNITRONIC® BUS LD FD P	1 x 2 x 0,25	6.0	18.0	39
2170214	UNITRONIC® BUS LD FD P	2 x 2 x 0,25	7.9	33.0	65
2170215	UNITRONIC® BUS LD FD P	3 x 2 x 0,25	8.0	39.0	77
For highly flexible applications (e.g. power chains)					
- with UL/CSA (CMX) approval					
2170813	UNITRONIC® BUS LD FD P A	1 x 2 x 0,25	6.2	18.0	39
2170814	UNITRONIC® BUS LD FD P A	2 x 2 x 0,25	8.3	33.0	65
2170915	LINITPONIC® RUS LD ED D A	3 × 2 × 0 25	Ω /	30.0	77

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.  $1 \times 500 \text{ m}$  drum or  $5 \times 100 \text{ m}$  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.

### **■** Accessories

- SILVYN® CHAIN
- SMART STRIP stripping tool refer to page 911