U.I. Lapp GmbH

PRODUCT INFORMATION



UNITRONIC® BUS LD FD P

29.11.2013

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 444and CSA C22.2 no. 214-02 Suitable for multiple Bus systems based on RS485 / RS422

LAPP KABEL STUTTGART UNITRONIC® BUS LD FD P





Info

LD is a LAPP abbreviation for long distance

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)

Design

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)

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 Flame-retardant according IEC 60332-1-2

Remark

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.

Product Management	Document: LAPP_PRO265EN.pdf	1/3
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U.I. Lapp PRO

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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: 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

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

Flexing: -30°C to +70°C

Characteristic impedance: 100 - 120 Ohm

Product Management

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3/3

Part number	Article designation	Number of pairs and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
For highly flexible applie	cations (power chains, moving machi	ne 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 applie	cations (e.g. power chains) - with UL/	CSA (CMX) approval		1	1
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
2170815	UNITRONIC® BUS LD FD P A	3 x 2 x 0,25	8.4	39.0	77

