

### Product Description

UL variant has approval: UL/CSA type CMX acc. UL 444 and CSA C22.2 No.214-02; PUR outer sheath, tear resistant and notch ductile, resistant to mineral oils and abrasion when used in power chains



### Application range

- For highly flexible applications (power chains/cable tracks, moving machine parts etc.)
- Bus cables for bus systems like e.g. Modbus, SUCOnet P, Modulink P, VariNet-P)

### Benefits

- UL variant has approval: UL/CSA type CMX acc. UL 444 and CSA C22.2 No.214-02
- PUR outer sheath, tear resistant and notch ductile, resistant to mineral oils and abrasion when used in power chains

### 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 change after some time possible)

### Product features

- The stated bit rates allow the following cable lengths (maximum) of one bus segment:
- 9.6-93.75 kbit/s = 1200m
- 187.5kbit/s = max. 1.000m
- 500 kBit/s = max. 400 m
- Flame retardant according to IEC 60332-1-2

**Technical Data**
**Mutual capacitance**

(800 Hz): max. 60 nF/km

**Peak working voltage**

(not for power purposes) 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

**Range of temperature**

Fixed installation: -40°C up to +80°C

Flexing: -30°C up to +70°C

**Characteristic impedance**

100 - 120 Ohm

**Article List**

Part number	Article designation	Number of pairs and mm <sup>2</sup> per conductor	Outer diameter mm	Copper index kg/km	Weight kg/km
For highly flexible application (power chains, frequently moved 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 application (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
2170815	UNITRONIC® BUS LD FD P A	3 x 2 x 0,25	8.4	39.0	77

**Footnote:**

All product related values as shown are nominal values unless specified differently. Further values, e.g. tolerances we submit on request - if available and released for publication.

Copper price basis: EUR 150 / 100 kg; For utilization and definition of 'Metal price basis' and 'Metal index' see Appendix T17

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum



Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

Modbus is assigned to Modbus-IDA organization. SUCOnet P is a registered trademark of 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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