

Cables for bus systems PROFIBUS-DP/FMS/FIP

Characteristic impedance: 135 - 165 ohm

Data communication systems













UNITRONIC® BUS PB FD P FC

Highly flexible application

LAPP KABEL STUTTGART UNITRONIC® BUS PB FD P FC



Benefits

- Fast Connect (FC) cable design
- Cables can be used for PROFIBUS-DP as well as PROFIBUS-FMS and FIP
- For highly flexible applications (power chains, moving machine parts)

Application range

 PROFIBUS® (in accordance with DIN 19245 and EN 50170, e.g. for SIEMENS SIMATIC® NET, also suitable for FIP - Factory Instrumentation Protocol).

Product features

- Flame-retardant according IEC 60332-1-2
- Oil-resistant
- Based on the bit rates listed, in accordance with PNO specifications the following maximum cable lengths for a bus segment

(cable type A, PROFIBUS-DP):

93.75 kbit/s = 1200 m

187.5 kbit/s = 1000 m

500 kbit/s = 400 m 1.5 Mbit/s = 200 m

12.0 Mbit/s = 100 m

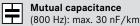
■ Norm references / Approvals

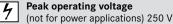
Approval: UL/CSA type CMX in accordance with UL 444 and CSA C22.2 no. 214-02

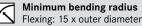
Product make-up

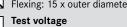
- Stranded bare copper wire
- Foam Skin core isolation (O2YS)
- Overall screening with copper braid and plastic-laminated aluminium foil
- · Screening: wrapped with braided tinnedcopper wires
- Outer sheath: PUR compound

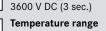
■ Technical data











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

Characteristic impedance

| Article number | Article designation | Number of pairs and conductor diameter (mm) | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|-----------------------------|---------------------------|---|---------------------|----------------------|----------------|
| Highly flexible application | | | | | |
| 2170322 | UNITRONIC® BUS PB FD P FC | 1 x 2 x 0.64 | 8.0 | 26.0 | 79 |

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).

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Lapp Kabel is a member of the PROFIBUS user organisation (PNO) Photographs are not to scale and do not represent detailed images of the respective products.

■ Accessories

- EPIC® Data Connectors refer to page 302
- FC STRIP stripping tool refer to page 912