

UNITRONIC® BUS PB

PROFIBUS cables for fixed applications

Various bus cable for PROFIBUS-DP, -FMS and FIP. E.g. Fast Connect and halogen free available.

Info

Lapp Kabel is a member of the PROFIBUS User Organisation (PNO)

A for Advanced

here: UL and CSA certifications

CPR: Article number choice under www.lappkabel.com/cpr



Supplementary automation components from Lapp



Mechanical and plant engineering



Halogen-free



UV-resistant

Application range

For fixed installation

Maximum electromagnetic screening

Dry or damp rooms

Item nos. 2170233, 2170333, 2170820, 2170824, 2170826 are all UV-resistant

Product features

These bus cables can be used for PROFIBUS-DP as well as for PROFIBUS-FMS and FIP

Based on the bit rates listed, in accordance with PNO specifications the following maximum cable lengths for a bus segment apply

(cable type A, PROFIBUS-DP):

93.75 kbit/s = 1200 m

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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

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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

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

See below for UL certification type

Product Make-up

FC: Fast Connect cable design

P: Polyurethane

H: Halogen-free

PE: polyethylene outer sheath, black

7-W: 7-wire, e.g. for applications where vibrations occur

COMBI: Data transmission and power supply in one cable

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. 30 nF/km |
| Peak operating voltage: | (not for power applications) 250 V |
| Conductor resistance: | (loop): max. 186 Ohm/km. see also datasheet |
| Minimum bending radius: | Fixed installation: see data sheet |
| Test voltage: | Core/core: 1500 V rms |
| Characteristic impedance: | 150 ± 15 Ohm |

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).

SIMATIC NET® is a registered trademark of Siemens AG

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Photographs and graphics are not to scale and do not represent detailed images of the respective products.

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 conductor diameter (mm) | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|--|-----------------------------|---|---------------------|----------------------|----------------|
| Conventional cable makeup | | | | | |
| 2170220 | UNITRONIC® BUS PB | 1 x 2 x 0.64 | 8 | 30.1 | 74 |
| 2170233 | UNITRONIC® PB PE | 1 x 2 x 0.64 | 8 | 30.1 | 57 |
| 2170226 | UNITRONIC® BUS PB H 7-W | 1 x 2 x 0.64 | 8 | 30.1 | 55 |
| 2170225 | UNITRONIC® BUS PB COMBI 7-W | 1 x 2 x 0,64 Ø + 3 x 1,0 mm ² | 9.8 | 59 | 92 |
| Conventional cable makeup - UL/CSA CMX certification | | | | | |
| 2170219 | UNITRONIC® BUS PB A | 1 x 2 x 0.64 | 8 | 30.1 | 57 |
| Conventional cable makeup - UL/CSA CMG certification | | | | | |
| 2170824 | UNITRONIC® BUS PB 7-W A | 1 x 2 x 0.64 | 8 | 30.1 | 55 |
| Fast Connect | | | | | |
| 2170333 | UNITRONIC® BUS PB PE FC | 1 x 2 x 0.64 | 8 | 26 | 67 |
| Fast Connect - UL/CSA CMX certification | | | | | |
| 2170330 | UNITRONIC® BUS PB P FC | 1 x 2 x 0.64 | 8 | 26 | 71 |
| Fast Connect cable makeup - UL/CSA CMG certification | | | | | |
| 2170820 | UNITRONIC® BUS PB FC | 1 x 2 x 0.64 | 8 | 26 | 84 |
| 2170826 | UNITRONIC® BUS PB 7-W FC | 1 x 2 x 0.64 | 8 | 26 | 67 |
| 2170326 | UNITRONIC® BUS PB-H FC | 1 x 2 x 0.64 | 8 | 26 | 72 |

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