

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



UV-resistant



Halogen-free



Mechanical and plant engineering



Kompletterande automationskomponenter från Lapp

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

187.5 kbit/s = 1000 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

UNITRONIC® BUS PB

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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