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

UL

UV-resistant

Halogen-free

Mechanical and plant engineering

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
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
Lapp Kabel is a member of the PROFIBUS user organisation (PNO)
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.

Last Update (16.05.2019)
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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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