

UNITRONIC® BUS PB FRNC FC

FRNC PROFIBUS cable UL/CSA certified

Bus cable for PROFIBUS-DP, -FMS and FIP. UL/CSA-approved, halogen free, enhanced flame retardance, oil resistance.
Temperature range from -30 °C bis +80 °C

Info

FRNC = Flame Retardant Non Corrosive

- Reduction of flame-propagation and density and toxicity of smoke gases in the event of fire
- Minimisation of damage to buildings and production facilities
- Safety for staff and in areas with high density of people

LAPP KABEL STUTTGART UNITRONIC® BUS PB FRNC FC



Supplementary automation components from Lapp



Mechanical and plant engineering



Flame-retardant



Halogen-free



Oil-resistant

Benefits

Cables can be used for PROFIBUS-DP as well as PROFIBUS-FMS and FIP

For use where the combination of a halogen-free outer sheath with properties similar to PUR and enhanced flame-retardance is required

Fast Connect (FC) cable design

Last Update (31.12.2023)

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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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Application range

This cable provides special advantages for use in sensitive areas where fire propagation must be avoided and the presence of toxic fumes would cause personal injury and damage to equipment.

Product features

Halogen-free

Vertical Tray Flame Test according to UL 1685

Oil-resistant

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

500 kbit/s = 400 m

1.5 Mbit/s = 200 m

12.0 Mbit/s = 100 m

Norm references / Approvals

UL/CSA-certified

Product Make-up

Solid and bare copper conductor

Core insulation: PE

Inner sheath, screening foil and braiding

Outer sheath: PUR, violet (RAL 4001)

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

Certifications:

UL/CSA (CM)

Mutual capacitance:

Approx. 28.5 nF/km

Peak operating voltage:

(not for power applications) 250 V

Minimum bending radius:

80 mm

Test voltage:

Core/core: 1500 V rms

Core/screen: 1500 V

Characteristic impedance:

(3 - 20 MHz): 150 ± 15 Ohm

Temperature range:

-30°C to +80°C

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).

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.

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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)
Fixed Installation					
2170853	UNITRONIC® BUS PB FRNC FC	1 x 2 x 0.64	8	30.1	75
Fixed Installation					
2170996	UNITRONIC® BUS PB FRNC FC	1 x 2 x 0.64	8	30.1	74