

U.I. Lapp GmbH	PRODUCT INFORMATION	
	UNITRONIC® BUS PB FRNC FC	12.09.2012

Fixed installation

Halogen-free and highly flame-retardant

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



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

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.

Design

Solid, bare, single-wire copper conductor

PE core insulation

Inner sheath, screening foil and braiding

Thermoplastic outer sheath

Colour: violet (RAL 4001)

Product features

The cable is UL/CSA-approved (CMG)

Halogen-free

High flame retardancy in accordance with IEC 60332-3 and FT4

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

Remark

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

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Technical Data

Approvals (Norm references):	UL/CSA (CMG)
Mutual capacitance:	Approx. 28.5 nF/km
Peak operating voltage:	(not for power applications) 250 V
Minimum bending radius:	80mm
Test voltage:	Core/core: 1500 V rms Core/screen: 1500 V
Temperature range:	-30°C to +80°C
Characteristic impedance:	(3 - 20 MHz): 150 ± 15 Ohm

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Part 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	8.0	30.1	75