

Stationary application

### Product Description

Halogen free and highly flame retardant; Cables can be used for PROFIBUS-DP as well as PROFIBUS-FMS and FIP; Application where the combination of halogen-free outer sheath with properties similar to polyurethane and enhanced flame retardancy is requested; Fast Connect (FC) cable design



### Application range

- This cable provides special advantages for the use in sensitive areas, where flame propagation must be avoided and the presence of toxic fumes would cause personal injuries and damage of property.

### Benefits

- Halogen free and highly flame retardant
- Cables can be used for PROFIBUS-DP as well as PROFIBUS-FMS and FIP
- Application where the combination of halogen-free outer sheath with properties similar to polyurethane and enhanced flame retardancy is requested
- Fast Connect (FC) cable design

### Design

- Solid bare copper conductor
- PE core insulation
- Inner sheath, screening foil and copper braiding
- Thermoplastic outer sheath
- Colour: violet (RAL 4001)

### Product features

- Cable is UL/CSA approved (CMG)
- halogen free
- Flame retardant in accordance with IEC 60332-3
- Oil resistant
- The stated bit rates allow the following cable lengths (maximum) according to PROFIBUS User Organisation of one bus segment (Type A cable, 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



Technical Data

Approvals

UL/CSA (CMG)

Mutual capacitance

Approx. 28.5 nF/km

Peak working voltage

(not for power applications) 250 V

Minimum bending radius

80mm

Test voltage

1500 V core/core

Core/screen: 1500 V

Range of temperature

-30°C up to +80°C

Characteristic impedance

(3 - 20 MHz): 150 +/- 15 Ohm

Article List

Part number	Article designation	Number of pairs and conductor diameter in mm	Outer diameter in mm	Copper index kg/km	Weight kg/km
Stationary application					
2170853	UNITRONIC® BUS PB FRNC FC	1 x 2 x 0,64	8.0	30.1	75

Footnote:

All product related values as shown are nominal values unless specified differently. Further values, e.g. tolerances we submit on request - if available and released for publication.

Copper price basis: EUR 150 / 100 kg; For utilization and definition of 'Metal price basis' and 'Metal index' see Appendix T17

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum

Please specify the desired packaging size (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.