

LAPP KABEL STUTTGART UNITRONIC® BUS PB FRNC FC

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

- 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



Product description

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.

Benefits

- 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

Product Make-up

- 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

Technical Data

Approvals	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