

LAPP KABEL STUFGART UNITRONIC® BUS PB FD FRNC FC

Highly flexible application

Fast Connect (FC) system; For use where the combination of a halogen-free outer sheath with properties similar to PUR and enhanced flame-retardance is required; For highly flexible applications (power chains, moving machine parts); Cables can be used for PROFIBUS-DP as well as PROFIBUS-FMS and FIP



Product description

Application range

- For highly flexible use in energy supply chains or permanently moving machines and linear robots
- 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

- Fast Connect (FC) system
- For use where the combination of a halogen-free outer sheath with properties similar to PUR and enhanced flame-retardance is required
- For highly flexible applications (power chains, moving machine parts)
- Cables can be used for PROFIBUS-DP as well as PROFIBUS-FMS and FIP

Product Make-up

- Stranded bare copper wire
- Foam Skin - core isolation (O2YS)
- Overall screening with copper braid and plastic-laminated aluminium foil
- Screening: wrapped with braided tinned-copper wires
- Outer sheath: PUR compound

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

Mutual capacitance	nom. 28 nF/km
Peak operating voltage	(not for power applications) 250 V
Minimum bending radius	Fixed installation: 10 x outer diameter Flexing: 15 x outer diameter
Test voltage	Core/core: 1500 V rms
Temperature range	Flexing: -30°C to +70°C Fixed installation: -40°C to +80°C
Characteristic impedance	(3 - 20 MHz): 150 ± 15 Ohm