

Highly flexible application

Product Description

Fast Connect (FC) system; Application where the combination of halogen-free outer sheath with properties similar to polyurethane and enhanced flame retardancy is requested; For highly flexible applications (power chains/cable tracks, moving machine parts etc.); Cables can be used for PROFIBUS-DP as well as PROFIBUS-FMS and FIP



Application range

- Intended for highly flexible use in power chains or permanently moving machines and linear robots
- 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

- Fast Connect (FC) system
- Application where the combination of halogen-free outer sheath with properties similar to polyurethane and enhanced flame retardancy is requested
- For highly flexible applications (power chains/cable tracks, moving machine parts etc.)
- Cables can be used for PROFIBUS-DP as well as PROFIBUS-FMS and FIP

Design

- Stranded bare copper wires
- Foam Skin - core isolation (O2YS)
- Aluminated foil
- Screen braiding made from tinned copper wire
- Outer sheath: Polyurethane (PUR) compound

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

Mutual capacitance

nom. 28 nF/km

Peak working voltage

(not for power applications) 250 V

Minimum bending radius

Fixed installation: 10 x outer diameter

Flexing: 15 x outer diameter

Test voltage

1500 V core/core

Range of temperature

Flexing: -30°C up to +70°C

Fixed installation: -40°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 max. | Copper index kg/km | Weight kg/km |
|-------------|------------------------------|--|---------------------------|--------------------|--------------|
| 2170854 | UNITRONIC® BUS PB FD FRNC FC | 1x2x0,64 | 8.0 | 26.0 | 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

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.