

Highly flexible application

Product Description

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



Application range

- PROFIBUS® (in accordance with DIN 19245 and EN 50170, e.g. for SIEMENS SIMATIC® NET, also suitable for FIP - Factory Instrumentation Protocol).

Benefits

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

Design

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

Approvals (Norm references)

- approval: UL/CSA Typ CMX acc. UL 444 and CSA C22.2 No.214-02

Product features

- Halogen free
- Flame retardant according to IEC 60332-1-2
- Oil resistant



- The stated bit rates allow the following cable lengths (maximum) according of PROFIBUS User Organisation of one bus segment (Type A cable, PROFIBIS-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

(800 Hz): max. 30 nF/km

Peak working voltage

(not for power purposes) 250 V

Minimum bending radius

65mm

Test voltage

Core/core: 1500 V

Range of temperature

Flexing: -30°C up to +70°C

Fixed installation: -40°C up to +80°C

Characteristic impedance

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
2170822	UNITRONIC® BUS PB FD P A	1 x 2 x 0,64	8.0	30.1	58

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)

SIMATIC® is a registered trademark of SIEMENS AG. FIP is a registered trademark of World FIP

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.