

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; 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

- 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
- 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

- Foam Skin - core isolation (O2YS)
- Aluminated foil
- Braided shielding made of tin-plated copper wires
- Outer sheath: Polyurethane (PUR) compound

### 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, 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**

(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
For highly flexible application (power chains,...) - conventional cable assembly					
2170222	UNITRONIC® BUS PB FD P 1x2x0,64	1 x 2 x 0,64	8.0	30.1	64

**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)

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.