

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



### 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

### Design

- PE core insulation

### Approvals (Norm references)

- approval: UL Typ CMX acc. UL 444

### Product features

- TORSION: for torsional stress, e. g. robot application;  $\pm 180^\circ$  per 1m
- Halogen free
- Flame retardant according to IEC 60332-1-2
- 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 applications) 300 V

**Minimum bending radius**

Static: 4 x cable diameter

Flexing: 7.5 x outer diameter

**Test voltage**

3600 V DC (3 sec.)

**Range of temperature**

Operating temp.: -25°C up to 75°C

Storage temp.: -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	Copper index kg/km	Weight kg/km
2170332	UNITRONIC® BUS PB TORSION	1 x 2 x 0,8	8.0	31.0	66

**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.