Bus system PROFIBUS-DP/FMS/FIP • Continuous flexing application







UNITRONIC® BUS PB FD P FC

Halogenfree, highly flexible PROFIBUS cable - with fast connect cable make up, UL/CSA certified

LAPP KABEL STUTTGART UNITRONIC® BUS PB FD P FC



Benefits

- · Fast Connect (FC) cable design
- · Cables can be used for PROFIBUS-DP as well as PROFIBUS-FMS and FIP

Application range

- · PROFIBUS DP (in accordance with DIN 19245 and EN 50170, e.g. for SIEMENS SIMATIC® NET, also suitable for FIP -Factory Instrumentation Protocol).
- · For highly flexible applications (power chains, moving machine parts)

Product features

- Flame-retardant according IEC 60332-1-2
- · 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

 $1.5 \, \text{Mbit/s} = 200 \, \text{m}$

12.0 Mbit/s = 100 m

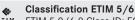
Norm references / Approvals

Certification: UL/CSA type CMX in accordance with UL 444 and CSA C22.2 no. 214

Product Make-up

- · Stranded bare copper wire
- Core insulation: foam skin, (O2YS)
- · Overall screening with copper braid and plastic-laminated aluminium foil
- · Fast connect inner sheath: PVC, nature
- Outer sheath: PUR, violet (RAL 4001)

Technical data



ETIM 5.0/6.0 Class-ID: EC000830 ETIM 5.0/6.0 Class-Description: Data cable

Mutual capacitance

(800 Hz): max. 30 nF/km Peak operating voltage

(not for power applications) 250 V Minimum bending radius

Flexing: 15 x outer diameter Test voltage

3600 V DC (3 sec.) Characteristic impedance

 $150 \pm 15 \Omega$ Temperature range

Flexing: -30°C to +70°C Fixed installation: -40°C to +80°C

Article number	Article designation	Number of pairs and conductor diameter (mm)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
Highly flexible application					
2170322	UNITRONIC® BUS PB FD P FC	1 x 2 x 0.64	8	26	79

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges. Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. $1 \times 500 \text{ m}$ drum or $5 \times 100 \text{ m}$ 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 and graphics are not to scale and do not represent detailed images of the respective products.

Accessories

· Sub-D Bus-Connectors

FC STRIP stripping tool refer to page 986