



Bus system PROFIBUS-DP/FMS/FIP • Fixed Installation











UNITRONIC® BUS PB TRAY

PROFIBUS cable with PLTC-ER approval for unprotected use on cable trays



· PLTC-ER (power limited tray cable epxosed run)

LAPP KABEL STUTTGART UNITRONIC® BUS PB TRAY



Renefits

- Cables can be used for PROFIBUS-DP as well as PROFIBUS-FMS and FIP
- PLTC-ER approval for open wiring between cable tray and industrial machines/plants acc. to NEC 725.154 (D)
- · No additional protection of the cable needed

Application range

- · For fixed installation or applications with occasional movements
- PROFIBUS DP (in accordance with DIN 19245 and EN 50170, e.g. for SIEMENS SIMATIC® NET, also suitable for FIP -Factory Instrumentation Protocol).

Product features

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 Mbit/s = 200 m12.0 Mbit/s = 100 m

- UV-resistant UL SUN RES
- Flame retardant acc. UL 1685 FT4 (vertical tray)

Norm references / Approvals

- c(UL)us Typ CMG (75°C) acc.to UL 444 / CSA 22.2
- UL Type PLTC-ER acc. to UL 13

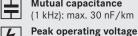
Product Make-up

- · Bare copper wire, 0,64 mm diameter
- · Core colours: red, green
- · Overall screening with copper braid and plastic-laminated aluminium foil
- · PVC inner sheath and outer sheath
- Colour: violet (RAL 4001)

Technical data



Classification ETIM 5/6 ETIM 5.0/6.0 Class-ID: EC000830 ETIM 5.0/6.0 Class-Description: Data cable



Mutual capacitance (1 kHz): max. 30 nF/km



Conductor resistance

(loop): max. 110 Ω/km Minimum bending radius

Fixed installation: 8 x outer diameter

Test voltage Core/core: 2000 V

Characteristic impedance $150 \pm 15 \Omega$

Temperature range Flexing: -10°C to +70°C Fixed installation: -40°C to +80°C

Number of pairs and Article number Article designation Outer diameter [mm] | Copper index (kg/km) Weight (kg/km) conductor diameter (mm) **UNITRONIC® BUS PB TRAY** UNITRONIC® BUS PB TRAY

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 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 and graphics are not to scale and do not represent detailed images of the respective products.

Accessories

• Sub-D Bus-Connectors