

## UNITRONIC® BUS PB TRAY

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

PROFIBUS DP cable with PLTC-ER approval acc. to UL, for open wiring on cable tray. Temperature range from -40 °C bis +80 °C

### Info

PLTC-ER (power limited tray cable - exposed run)



Supplementary automation components from Lapp



Mechanical and plant engineering



Flame-retardant



UV-resistant

### Benefits

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

Last Update (24.04.2024)

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Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

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## UNITRONIC® BUS PB TRAY

500 kbit/s = 400 m  
1.5 Mbit/s = 200 m  
12.0 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:    | ETIM 5.0 Class-ID: EC000830<br>ETIM 5.0 Class-Description: Data cable |
| Classification ETIM 6:    | ETIM 6.0 Class-ID: EC000830<br>ETIM 6.0 Class-Description: Data cable |
| Mutual capacitance:       | (1 kHz): max. 30 nF/km  |
| Peak operating voltage:   | (not for power applications) 250 V                                    |
| Impedance:                | 150 +/- 15 Ohm  |
| Conductor resistance:     | (loop): max. 110 ohm/km   |
| Minimum bending radius:   | Fixed installation: 8 x outer diameter                                |
| Test voltage:             | Core/core: 2000 V   |
| Characteristic impedance: | 150 ± 15 Ohm  |
| Temperature range:        | Flexing: -10 °C to +70 °C<br>Fixed installation: -40 °C to +80 °C     |

### Note

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](http://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)

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Prices are net prices without VAT and surcharges. Sale to business customers only.

**UNITRONIC® BUS PB TRAY**

| Article number | Article designation    | Number of pairs and conductor diameter (mm) | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|----------------|------------------------|---|---------------------|----------------------|----------------|
| 2170856        | UNITRONIC® BUS PB TRAY | 1x2x0,64                                    | 8.4                 | 26                   | 82             |