

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 (29.04.2024)

©2024 Lapp Group - Technical changes reserved

Product Management www.lappkabel.de

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

PN 0456 / 02_03.16

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

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.

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

Last Update (29.04.2024)

©2024 Lapp Group - Technical changes reserved

Product Management www.lappkabel.de

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

PN 0456 / 02_03.16