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)

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):

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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
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
Classification ETIM 6: ETIM 6.0 Class-ID: EC000830
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: Flexible: -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)
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Prices are net prices without VAT and surcharges. Sale to business customers only.

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<th>Article designation</th>
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<tr>
<th>Number of pairs and conductor diameter (mm)</th>
<th>Outer diameter [mm]</th>
<th>Copper index (kg/km)</th>
<th>Weight (kg/km)</th>
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<td>1x2x0.64</td>
<td>8.4</td>
<td>26</td>
<td>82</td>
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