

UNITRONIC® BUS PB TORSION

Flame retardant, highly flexible PROFIBUS cable for torsion load

Bus cable for PROFIBUS-DP, -FMS and FIP. For torsional stress, e.g. robot \pm 180° per 1 m, halogen free, flame ratardant. Temp. Range from -25°C bis 75°C

LAPP KABEL STUTIGART UNITRONIC® BUS PB TORSION





Halogen-free



Torsion-resistant

Benefits

For use where the combination of a halogen-free outer sheath with properties similar to PUR and enhanced flame-retardance is required

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).

Product features

TORSION: for torsional stress, e.g. robot application; ± 180° per 1 m

Halogen-free

Flame-retardant according IEC 60332-1-2

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 m 12.0 Mbit/s = 100 m

Norm references / Approvals

Last Update (20.12.2024)
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Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16



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Certification: UL type CMX in accordance with UL 444

Product Make-up

Stranded bare copper wire Core insulation: PE

Overall screening with copper braid and plastic-laminated aluminium foil

Outer sheath: PUR, 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: (800 Hz): max. 30 nF/km
Peak operating voltage: (not for power applications)

300 V

Torsion movement in WTG (wind turbine generator): Max. torsion load

± 180°/m

Minimum bending radius: Fixed installation: 4 x outer diameter

Flexing: 15 x outer diameter

Test voltage: 3600 V DC (3 sec.)

Characteristic impedance: $150 \pm 15 \text{ Ohm}$

Temperature range: Operating temperature: -25°C to 75°C

Storage temp.: -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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Article number	Article designation	Number of cores and mm² per conductor	Dimension and cross section in mm2	Outer diameter [mm]	Copper index [kg/km]	Weight [kg/km]
Highly flexible application						
2170332	UNITRONIC® BUS PB TORSION	1 x 2 x 0.38	1 x 2 x 0.38	8	31	66