

UNITRONIC® BUS PB FD P

Halogenfree, highly flexible PROFIBUS cable

Bus cable for PROFIBUS-DP, -FMS and FIP. Halogen free and enhanced flame retardance. Temperature range from -40°C bis +80°C

LAPP KABEL STUTTGART UNITRONIC® BUS PB FD P





Halogen-free



Oil-resistant



Power chain

Benefits

Due double screening it is suitable for installation in electromagnetically demanding areas

Cables can be used for PROFIBUS-DP as well as PROFIBUS-FMS and FIP

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

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).

For highly flexible applications (power chains, moving machine parts)

Suitable for torsional applications which are typical for the loop in wind turbine generators (WTG)

Product features

Halogen-free

Flame-retardant according IEC 60332-1-2

Oil-resistant

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

Last Update (13.12.2022)

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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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12.0 Mbit/s = 100 m

Product Make-up

Stranded bare copper wire

Core insulation: foam skin, (O2YS)

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) 250 V

Minimum bending radius: 65 mm

Test voltage: Core/core: 1500 V rms

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

Temperature range: Flexing: -30 °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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| Article number | | Number of pairs and conductor diameter (mm) | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|--|------------------------|---|---------------------|----------------------|----------------|
| For highly flexible applications (e.g. power chains) - conventional cable assembly | | | | | |
| 2170222 | UNITRONIC® BUS PB FD P | 1 x 2 x 0.64 | 8 | 30.1 | 64 |