

Bus system PROFIBUS-DP/FMS/FIP • Fixed installation











# **UNITRONIC® BUS PB 105**

Fixed installation

#### **Renefits**

- A standard PROFIBUS cable can only be used up to a max. temperature of 80°C
- · This enables an extended area of application

## Application range

Cable has been designed for use in factory halls where temperatures up to max. 105°C may occur.

## **Product features**

- Flame-retardant according IEC 60332-1-2
- · Oil-resistant

## LAPP KABEL STUTTGART UNITRONIC® BUS PB 105

## Product Make-up

- · Stranded conductor, 7-wire, bare
- · Core insulation: PP
- · Overall screening with copper braid and plastic-laminated aluminium foil
- · Tin-plated copper wire braiding
- PVC outer sheath for use up to 105°C

### Suitable connectors

• Sub-D Bus-Connectors

#### Technical data



ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable



**Mutual capacitance** Approx. 28.5 nF/km



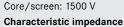
Peak operating voltage max. 100 V (not for power applications)



Minimum bending radius Fixed installation: 45 mm once



**Test voltage** Core/core: 1500 V rms



(3 - 20 MHz):  $150 \pm 15 \text{ Ohm}$ 



Article number	Article designation	Number of pairs and conductor diameter (mm)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)			
UNITRONIC® BUS PB 105								
2170630	UNITRONIC® BUS PB 105	1 x 2 x 0.64	8	30.1	72			

LAPP KABEL STUTTGART UNITRONIC® BUS PB 105 plus

### Accessories

Multipurpose shears A and B refer to page 998





**Benefits** 

• Bus system PROFIBUS-DP/FMS/FIP

No need for additional cable protection

· For installation in hollow shaft between

against high temperatures

· High temperature resistance

gear units and pitch system

• Permanent load up to +105°C,

temporary load +120°C

Suitable for fixed installation and

occasionally flexible use in high

**Application range** 

temperature areas

**Product features** 

Lapp Kabel is a member of the PROFIBUS User Organisation (PNO)

· In accordance with DIN 19245 and EN 50170, e.g. for SIEMENS SIMATIC NET, also suitable for FIP (Factory Instrumentation Protocol)

Norm references / Approvals

# Product Make-up

- Stranded conductor, 7-wire, bare
- · Core insulation: polypropylene (PP)
- Overall screening with copper braid and plastic-laminated aluminium foil
- · Outer sheath: TPE-based

# Technical data

ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable



Mutual capacitance (800 Hz): max. 30 nF/km

UNITRONIC® BUS PB 105 plus



Peak operating voltage (not for power applications) 250 V



Minimum bending radius

Fixed installation: 45 mm once Flexing: 65 mm



Test voltage

Core/core: 1500 V rms Core/screen: 1500 V eff.



Characteristic impedance (3 - 20 MHz): 150 ± 15 Ohm



Temperature range



Fixed installation: -40°C to +105°C Short-term: up to +120 °C

Article number	Article designation	Number of pairs and conductor diameter (mm)	Outer diameter (mm)	Copper index (kg/km)				
UNITRONIC® BUS PB 105 plus								
2170635	UNITRONIC® BUS PB 105 plus	1x2x0,64	8	30.1				

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 Lapp Kabel is a member of the PROFIBUS user organisation (PNO)

Photographs are not to scale and do not represent detailed images of the respective products