



## UNITRONIC® BUS PB 105

### Fixed installation

LAPP KABEL STUÏTGART UNITRONIC® BUS PB 105

#### ■ Benefits

- 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

#### ■ 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

- EPIC® Data Connectors Page 302

#### ■ Technical data

- 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 flexing: 65 mm
- Test voltage**  
Core/core: 1500 V rms  
Core/screen: 1500 V
- Temperature range**  
-30°C to +105°C
- Characteristic impedance**  
(3 - 20 MHz): 150 ± 15 Ohm

Article number	Article designation	Number of pairs and conductor diameter (mm)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
2170630	UNITRONIC® BUS PB 105	1 x 2 x 0.64	8.0	30.1	72

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: EUR 150/100kg. 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](http://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.

#### ■ Accessories

- Multipurpose shears A and B refer to page 907



New

## UNITRONIC® BUS PB HEAT 180

LAPP KABEL STUÏTGART UNITRONIC® BUS PB HEAT 180

#### ■ Benefits

- No need for additional cable protection against high temperatures
- High temperature resistance

#### ■ Application range

- Fixed installation
- For use in high temperature areas with up to 180 °C

#### ■ Product features

- High oil-resistance

#### ■ Product make-up

- Solid and bare copper conductor
- Wire insulation Fluorethylen
- Overall screening with copper braid and plastic-laminated aluminium foil
- Screening: wrapped with braided tinned-copper wires
- Outer Sheath: Perfluorethylenpropylen, FEP, violet

#### ■ Suitable connectors

- EPIC® Data Connectors Page 302

#### ■ Technical data

- Mutual capacitance**  
approx. 28 nF / km
- Peak operating voltage**  
(not for power applications) 250 V
- Minimum bending radius**  
Repeated: 7 x Outer Diameter  
Single: 5 x Outer Diameter
- Test voltage**  
3600 V DC (3 sec.)
- Temperature range**  
-50 to +180°C
- Characteristic impedance**  
(3 - 20 MHz): 150 ± 15 Ohm

Article number	Article designation	Number of pairs and conductor diameter (mm)	Copper index (kg/km)	Weight (kg/km)
3031981	UNITRONIC® BUS PB HEAT 180 1X(2X0,64)	1 x 2 x 0,64	21.7	0.064

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Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum  
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