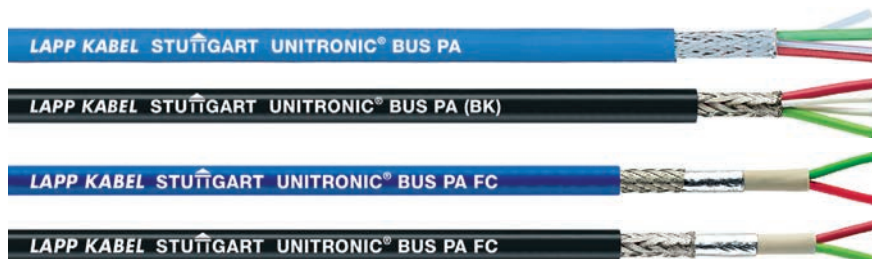




### UNITRONIC® BUS PA

PROFIBUS cables for applications in manufacturing and process automation



**Info**

- PA = Process Automation
- Variant with UL/CSA CMG

#### Benefits

- FC (Fast Connect) version is oil and UV-resistant

#### Application range

- Process-automation application for connecting sensors and actuators - including areas with risks of explosion.
- Fixed Installation

#### Product features

- Bit rate = 31.25 kbit/s. Transmission technology RS485 also possible but bit rate is limited to 1.5 Mbit/s
- Maximum cable length is dependent on several factors (e.g. supply voltage, current demand).
- Technical Data: refer to the overview on "UNITRONIC® Bus Cables"
- Flame-retardant according IEC 60332-1-2

#### Norm references / Approvals

- PROFIBUS® PA is standardised in EN 50170 as PROFIBUS® DP and PROFIBUS® FMS
- Transmission technology for PROFIBUS-PA in accordance with international standard IEC 61158-2
- FC variant with UL/CSA certification (CMG / PLTC)

#### Product Make-up

- UNITRONIC® BUS PA  
Stranded conductor  
Copper braiding  
Outer sheath: PVC, blue, (RAL 5015)  
intrinsically safe area, black (RAL 9005)
- UNITRONIC® BUS PA FC  
Bare copper wire  
Fast Connect inner sheath  
Cu-Geflecht  
Puter sheath: PVC, blue (RAL 5015), black (RAL 9005)

#### Technical data

**Classification ETIM 5/6**  
ETIM 5.0/6.0 Class-ID: EC000830  
ETIM 5.0/6.0 Class-Description: Data cable

**Peak operating voltage**  
(not for power applications) 250 V

**Conductor resistance**  
(loop): max. 44 Ω/km

**Minimum bending radius**  
Fixed installation: 10 x outer diameter

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

**Characteristic impedance**  
100 ± 20 Ω

**Temperature range**  
Fixed installation: -30°C to +80°C  
During installation: -5°C to +50°C

Article number	Article designation	Number of pairs and cable diameter per conductor in mm	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>Conventional cable makeup</b>					
2170234	UNITRONIC® BUS PA (BU)	1 x 2 x 1,3	8	45	84
2170235	UNITRONIC® BUS PA (BK)	1 x 2 x 1,3	8	45	84
<b>Fast Connect cable makeup - UL/CSA CMG certification</b>					
2170334	UNITRONIC® BUS PA FC (BU)	1 x 2 x 1.00	8	45.5	103
2170335	UNITRONIC® BUS PA FC (BK)	1 x 2 x 1.00	8	45.5	103

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](http://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).

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Armoured

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

#### Accessories

- Multipurpose shears A and B
- STAR STRIP stripping tool refer to page 985
- FC STRIP stripping tool refer to page 986