
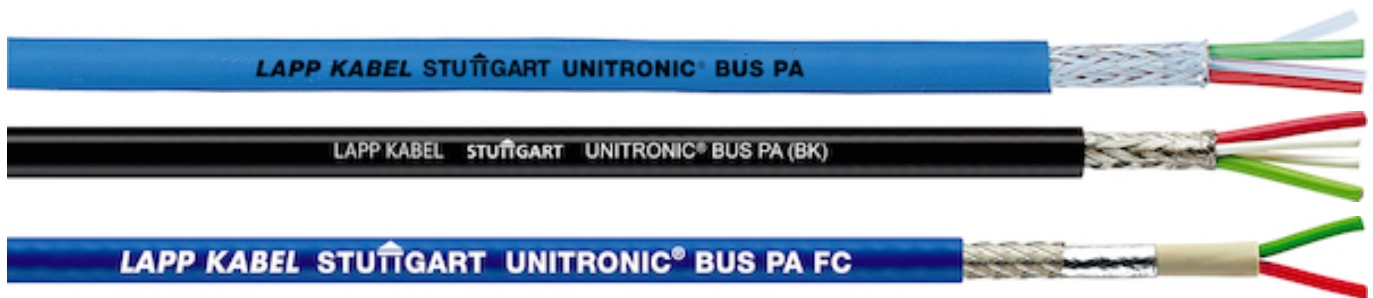


U.I. Lapp GmbH	<b>PRODUCT INFORMATION</b>	
	<b>UNITRONIC® BUS PA</b>	12.09.2012

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



### Info

PA = Process Automation  
Variant with UL/CSA CMG

### Application range

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

### Design

UNITRONIC® BUS PA (BU/BK) Stranded conductor, core colours: red and green, copper braiding, PVC sheath, colour: blue (intrinsically safe area), colour: black (non-intrinsically safe area)  
UNITRONIC® BUS PA FC (BU/BK) Solid core, UL/CSA CMG approval and "Fast Connect" cable design, which enables rapid connection of the IDC connector (Insulation Displacement Connection).

### Approvals (Norm references)

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 approval (CMG / PLTC)

### 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 to IEC 60332-1-2

### Remark

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 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).

SIMATIC® is a registered trademark of Siemens AG

Armoured

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

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**Technical Data**

Peak operating voltage:	(not for power applications) 250 V
Conductor resistance:	(loop): max. 44 ohm/km
Minimum bending radius:	Fixed installation: 10 x outer diameter
Test voltage:	Core/core: 1500 V rms
Temperature range:	Fixed installation: -30°C to +80°C During installation: -5°C to +50°C
Characteristic impedance:	100 ± 20 Ohm

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Part number	Article designation	Number of pairs and cable diameter per conductor in mm	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
For fixed installation - conventional cable assembly					
2170234	UNITRONIC® BUS PA (BU)	1 x 2 x 1,3	8.0	45.0	84
2170235	UNITRONIC® BUS PA (BK)	1 x 2 x 1,3	8.0	45.0	84
For fixed installation - "Fast Connect" cable assembly - UL/CSA CMG approval					
2170334	UNITRONIC® BUS PA FC (BU)	1 x 2 x 1	8.0	45.5	103
2170335	UNITRONIC® BUS PA FC (BK)	1 x 2 x 1	8.0	45.5	103

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