

UNITRONIC® BUS PA

Application in process automation for connecting sensors and actuators - including areas with risks of explosion. Temperature range from -30°C to +80°C

Info

PA = Process Automation
Variant with UL/CSA CMG



Industrial machinery and plant engineering

Benefits

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

Application range

Application in process automation 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 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 "UNITRONIC® BUS cables"
Flame-retardant according to 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 version with
UL/CSA certification (CMG / PLTC)

UNITRONIC® BUS PA

Design

UNITRONIC® BUS PA (BU/BK)

Braided 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 conductor, UL/CSA CMG certification and "Fast Connect" cable design, which enables the use of a IDC connector (Insulation Displacement Connection).

Technical Data

Classification:	ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable
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 eff.
Characteristic impedance:	100 ±20 ohm
Temperature range:	Fixed installation: -30°C to +80°C During laying: -5°C to +50°C

Note

Unless otherwise specified, the product values shown are nominal values. You can receive further values, such as tolerances, upon request if they are available and have been released for publication.

Copper price basis: EUR 150/100 kg; see catalogue appendix T17 for the application and definition of "Metal price basis" and "Metal index"

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging: Ring ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred packaging (e.g. 1 x 500 m drum or 5 x 100 m rings)

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Armoured

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

* Prices are net prices without VAT and surcharges. Sale to business customers only.

**UNITRONIC® BUS PA**

Article 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	45	84
2170235	UNITRONIC® BUS PA (BK)	1 x 2 x 1.3	8	45	84
For fixed installation - "Fast Connect" cable assembly - UL/CSA CMG certification					
2170334	UNITRONIC® BUS PA FC (BU)	1 x 2 x 1	8	45.5	103
2170335	UNITRONIC® BUS PA FC (BK)	1 x 2 x 1	8	45.5	103

Last Update (20.03.2017)

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Product Management www.lappkabel.deYou can find the current technical data in the corresponding data sheet.
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