

## UNITRONIC® BUS FF

FOUNDATION Fieldbus cable for use in Process Automation - UL-verified

Used in intrinsically safe areas, especially in the field of Process Automation. UL/CSA-approval. Temperature range from -40 °C bis +105 °C



Oil & Gas



Suitable for outdoor use



Mechanical resistance



Temperature-resistant



UV-resistant

### Benefits

Cables meet the requirements of ISA/SP50 and the FOUNDATION™ field bus for the cable type A.

### Application range

FOUNDATION™ Fieldbus is used in intrinsically safe areas, especially in the field of Process Automation  
Fixed Installation

### Product features

UV-resistant  
Extended temperature range

### Norm references / Approvals

With UL/CSA certification (CMG/PLTC)

Last Update (23.04.2024)

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Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02\_03.16

## UNITRONIC® BUS FF

### Product Make-up

2-core, not armoured, with device ground

3-core, unarmoured, with device ground

3-core, armoured (longitudinally welded, spiral corrugated copper sheath) with device ground

Outer sheath: PVC, yellow

Armoured Version: PVC, yellow and blue

### Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000830 ETIM 6.0 Class-Description: Data cable
Peak operating voltage:	300 V
Conductor resistance:	$\leq 24 \text{ Ohm/km}$
Minimum bending radius:	15 x outer diameter
Test voltage:	1500 V
Characteristic impedance:	$100 \pm 20 \text{ Ohm at } 31.25 \text{ kHz}$
Temperature range:	-40 °C or -25 °C to +105 °C, see data sheet

### Note

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)

Foundation™ is a trademark of the Fieldbus Foundation

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

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Article number	Article designation	Number of pairs and cable diameter	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
PVC					
2170352	UNITRONIC® BUS FF 2	1 x 2 x 1.1	7.9	39.7	82
2170350	UNITRONIC® BUS FF 3	1x2x1.1 + 1x1.1 Ø	7.9	48.3	93
PVC - Armoured					
2170351	UNITRONIC® BUS FF 3 ARM (YE)	1x2x1.1 + 1x1.1 Ø	12.3	125	182
2170353	UNITRONIC® BUS FF 3 ARM (BU)	1x2x1.1 + 1x1.1 Ø	12.3	125	182

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