

# **UNITRONIC® BUS SAFETY**

SafetyBUS cables for transmission of safety-oriented datas

For systems e.g. SafetyBUS, based on CAN bus. Colour-coded in acc. with DIN 47100. Halogen free outer sheath, flame retardant. Temp. range from -40°C bis +80°C

LAPP KABEL STUTTGART UNITRONIC® BUS SAFETY



Supplementary automation components from Lapp



Mechanical and plant engineering



Halogen-free



Power chain

### **Benefits**

For serial transmission of safety-oriented data

## **Application range**

UNITRONIC® BUS SAEFTY - fixed Installation
UNITRONIC® BUS SAEFTY FD P - highly flexible applications
For systems such as SafetyBUS p®, based on the well-known CAN bus system

### **Product features**

The stated bit rates result in the following cable lengths (maximum) for a bus segment: 500 kbit/s = max. 100 m 250 kbit/s = max. 250 m 125 kbit/s = max. 500 m 50 kbit/s = max. 1,000 m

# Norm references / Approvals

Flame retardant acc. to IEC 60332-1-2

### **Product Make-up**

Bare stranded copper wires

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Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02\_03.16



# **UNITRONIC® BUS SAFETY**

Core insulation: foam skin Tin-plated copper wire braiding

Outer sheath: halogen-free, flame-retardant compound

Outer sheath: yellow

**Technical Data** 

ETIM 5.0 Class-ID: EC000830 Classification ETIM 5:

ETIM 5.0 Class-Description: Data cable

Classification ETIM 6: ETIM 6.0 Class-ID: EC000830

ETIM 6.0 Class-Description: Data cable

Certifications: Version UNITRONIC® BUS SAFETY FC:

AWM Style 2464 (80°C 300 V)

Mutual capacitance: (800 Hz): max. 45 nF/km

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

Conductor resistance: (loop): max. 52 ohm/km

Minimum bending radius: Fixed installation: 5 x outer diameter

Core/core: 3000 V Test voltage:

Core/core: 1500 V (FD- version)

Characteristic impedance: 120 ohm

Temperature range: UNITRONIC BUS SAFETY:

> Fixed installation: -30°C to +80°C UNITRONIC BUS SAFETY FD P: Fixed installation -40°C to +80°C

Moved: -30 to +80°C

### Note

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related

Please find our standard lengths at: 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).

SafetyBUS p® is a registered trademark of Pilz GmbH & Co.

Photographs and graphics 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.



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Article number	_	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
Fixed Installation					
2170295	UNITRONIC® BUS SAFETY	3 x 0.75	7.6	49	68
For highly flexible applications					
2170885	UNITRONIC® BUS SAFETY FD P	3 x 0.75	7.8	49	68