

UNITRONIC® BUS SAFETY

SafetyBUS cables for transmission of safety-oriented data

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 SAFETY - fixed Installation

UNITRONIC® BUS SAFETY 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

Last Update (25.02.2021)

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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

| | |
|---------------------------|--|
| 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 |
| 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 |
| Test voltage: | Core/core: 3000 V 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 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

Packaging size: coil \leq 30 kg or \leq 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 | Article designation | Number of cores and mm ² 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 |

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