

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

Last Update (23.04.2024)

©2024 Lapp Group - Technical changes reserved

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 ≤ 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.

UNITRONIC® BUS SAFETY

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