



UNITRONIC® BUS SAFETY

SafetyBUS cables for transmission of safety-oriented data

LAPP KABEL STUTTGART UNITRONIC® BUS SAFETY

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
- Core insulation: foam skin
- Tin-plated copper wire braiding
- Outer sheath: halogen-free, flame-retardant compound
- Outer sheath: yellow

Technical data

	Classification ETIM 5/6 ETIM 5.0/6.0 Class-ID: EC000830 ETIM 5.0/6.0 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 Ω/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 Ω
	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

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
Highly flexible applications					
2170885	UNITRONIC® BUS SAFETY FD P	3 x 0.75	7.8	49	68

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.
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Accessories

- FC STRIP stripping tool refer to page 986