









UNITRONIC® BUS SAFETY

SafetyBUS cables for transmission of safety-oriented datas

LAPP KABEL STUTTGART UNITRONIC® BUS SAFETY



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

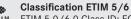
Norm references / Approvals

• Flame retardant acc. to IEC 60332-1-2

Product Make-up

- · Bare stranded copper wires
- · Core insulation: foam skin
- · Tin-plated copper wire braiding
- · Outer sheath: halogen-free, flameretardant compound
- Outer sheath: yellow

Technical data



ETIM 5.0/6.0 Class-ID: EC000830 ETIM 5.0/6.0 Class-Description: Data cable



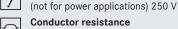
Certifications

Version UNITRONIC® BUS SAFETY FC: AWM Style 2464 (80°C 300 V)



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

Peak operating voltage



(loop): max. 52 Ω/km Minimum bending radius

Fixed installation: 5 x outer diameter



Core/core: 3000 V

Core/core: 1500 V (FD-version) Characteristic impedance



Temperature range

Moved: -30 to +80°C

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

Article number	Article designation	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
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 $\le 30~\rm kg$ or $\le 250~\rm m$, 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.

Accessories

• FC STRIP stripping tool refer to page 986