Bus system SAFETY BUS • Fixed / continuous flexing application









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

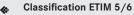
Norm references / Approvals

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



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

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

Conductor resistance

Fixed installation: 5 x outer diameter

Test voltage Core/core: 3000 V

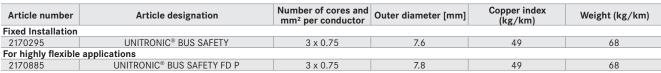
Core/core: 1500 V (FD-version)

Characteristic impedance Z 120 ohm

Moved: -30 to +80°C

Temperature range UNITRONIC BUS SAFETY:

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



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 kg or \le 250 m, otherwise drum Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

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Accessories

• FC STRIP stripping tool refer to page 960