

Bus system SAFETY BUS • Fixed / continuous flexing application







UNITRONIC® BUS SAFETY

LAPP KABEL STUTTGART UNITRONIC® BUS SAFETY

Benefits

· For serial transmission of safety-oriented

Application range

- · For fixed installation and highly flexible
- 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

Product Make-up

- · Stranded conductor, 3 cores twisted, colour-coded in accordance with DIN 47100 (white, brown, green), copper braiding, halogen-free outer sheath
- UNITRONIC® BUS SAFETY FD P is as per UNITRONIC® BUS SAFETY, but also suitable for highly flexible applications
- Flame-retardant according IEC 60332-1-2

Technical data



ETIM 5.0 Class-ID: EC000830 ETIM 5.0 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

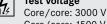


Conductor resistance (loop): max. 52 ohm/km



Minimum bending radius Fixed installation:

10 x outer diameter Test voltage



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

Article number	Article designation	Number of cores and mm² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
for fixed installation					
2170295	UNITRONIC® BUS SAFETY	3 x 0.75	7.6	49	68
For highly flexible applications (e.g. power chains)					
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. 1×500 m drum or 5×100 m coils). SafetyBUS p® is a registered trademark of Pilz GmbH & Co.

Photographs are not to scale and do not represent detailed images of the respective products

Accessories

• FC STRIP stripping tool refer to page 1002