



UNITRONIC® BUS SAFETY



Benefits

- For serial transmission of safety-oriented data

Application range

- For fixed installation and 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

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



Approvals

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 cable diameter



Test voltage

Core/core: 3000 V
Core/core: 1500 V (FD- version)



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



Characteristic impedance

120 ohm

Article number	Article designation	Number of cores and mm ² 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	49.0	68
For highly flexible applications (e.g. power chains)					
2170885	UNITRONIC® BUS SAFETY FD P	3 x 0.75	7.8	49.0	68

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100kg. 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).

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

Accessories

- FC STRIP stripping tool refer to page 912