

Product Description

For serial transmission of safety-oriented data



Application range

- For stationary installation and highly flexible applications
- For systems like e.g. SafetyBUS p® on basis of the well-known CAN bus system

Benefits

- For serial transmission of safety-oriented data

Design

- Stranded copper conductor, 3 cores twisted, colour coded in accordance with DIN 47100 (white, brown, green), copper braiding, halogen-free outer sheath
- UNITRONIC® BUS SAFETY FC = with UL- Approval AWM Style 2464 (80°C 300V) and "Fast Connect" cable structure.
- UNITRONIC® BUS SAFETY FD P as UNITRONIC® BUS SAFETY however suitable for highly flexible applications
- Flame retardant according to IEC 60332-1-2

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



Technical Data

Approvals

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

Mutual capacitance

(800 Hz): max. 45 nF/km

Peak working voltage

(not for power applications) 250 V (not for power applications) 300 V (UL AWM version)

Conductor resistance

(loop): max. 52 Ohm/km

Minimum bending radius

Fixed installation: 10 x cable diameter

Test voltage

Core/core: 3000 V Core/core: 2000 V (UL AWM version)

Range of temperature

Fixed installation: -30°C up to +80°C Fixed installation UL (AWM)-Version: 40°C up to +80°C

Characteristic impedance

120 ohms

Article List

Part 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
2170895	UNITRONIC® BUS SAFETY FC	3 x AWG19/19 (3x0.75)	8.0	49.0	91
For highly flexible application (e.g.power chains,...)					
2170885	UNITRONIC® BUS SAFETY FD P	3 x 0,75	7.8	49.0	68

Footnote:

All product related values as shown are nominal values unless specified differently. Further values, e.g. tolerances we submit on request - if available and released for publication.

Copper price basis: EUR 150 / 100 kg; For utilization and definition of 'Metal price basis' and 'Metal index' see Appendix T17

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum

Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 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.