



For serial transmission of safety-oriented data



Product description

Application range

- For fixed installation and highly flexible applications
- For systems such as SafetyBUS p®, based on the well-known CAN bus system

Benefits

- For serial transmission of safety-oriented data

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

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

Mutual capacitance

Peak operating voltage

Conductor resistance

Minimum bending radius

Test voltage

Temperature range

Characteristic impedance

Version UNITRONIC® BUS SAFETY FC:

AWM Style 2464 (80°C 300 V)

(800 Hz): max. 45 nF/km

(not for power applications) 250 V

(loop): max. 52 ohm/km

Fixed installation:

10 x cable diameter

Core/core: 3000 V

Core/core: 1500 V (FD- version)

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

120 ohm