



FC (Fast Connect) version is oil and UV-resistant

- PA = Process Automation
- Variant with UL/CSA CMG



## Product description

### Application range

- Process-automation application for connecting sensors and actuators - including areas with risks of explosion.
- Fixed installation

### Benefits

- FC (Fast Connect) version is oil and UV-resistant

### Product Make-up

- UNITRONIC® BUS PA (BU/BK)  
Stranded conductor, core colours: red and green, copper braiding, PVC sheath, colour: blue (intrinsically safe area), colour: black (non-intrinsically safe area)
- UNITRONIC® BUS PA FC (BU/BK)  
Solid core, UL/CSA CMG approval and "Fast Connect" cable design, which enables rapid connection of the

IDC connector (Insulation Displacement Connection).

## Norm references / Approvals

- PROFIBUS® PA is standardised in EN 50170 as PROFIBUS® DP and PROFIBUS® FMS
- Transmission technology for PROFIBUS-PA in accordance with international standard IEC 61158-2
- FC variant with  
UL/CSA approval (CMG / PLTC)

## Product features

- Bit rate = 31.25 kbit/s. Transmission technology RS485 also possible but bit rate is limited to 1.5 Mbit/s
- Maximum cable length is dependent on several factors (e.g. supply voltage, current demand).
- Technical Data: refer to the overview on "UNITRONIC® Bus Cables"
- Flame-retardant according IEC 60332-1-2

## Technical Data

Peak operating voltage	(not for power applications) 250 V
Conductor resistance	(loop): max. 44 ohm/km
Minimum bending radius	Fixed installation: 10 x outer diameter
Test voltage	Core/core: 1500 V rms
Temperature range	Fixed installation: -30°C to +80°C During installation: -5°C to +50°C
Characteristic impedance	100 ± 20 Ohm