2170820

## DATA SHEET

valid from: 01.01.2019

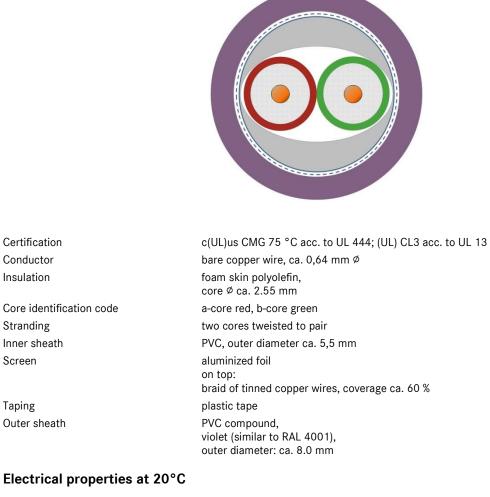
### UNITRONIC<sup>®</sup> BUS PB FC 1X2X0,64 1X2X0,64



# Application

Flame retardant data cable for the fieldbus system PROFIBUS DP and PROFIBUS FMS (Siemens SIMATIC NET). The cable is for applications with fixed installation and has got a "fast connect" design. It is designed for the system-defined transmission rates of 9.6 Kbit/s up to 12 Mbit/s, the transmission characteristics are conform to the system and guarantee a high operating security during the data transmission. The cable is designed for applications in dry and damp interiors, outdoors and in rough industrial environment.

#### Design



Loop resistance	max. 110 $\Omega/km$
Insulation resistance	min. 5 GΩxkm
Mutual capacitance	ca. 30 nF/km (at 1 kHz)
Characteristic impedance	9.6 kHz: $270 \Omega \pm 27 \Omega$ 38.4 kHz: $185 \Omega \pm 18.5 \Omega$ 3 up to 20 Mhz: $150 \Omega \pm 15 \Omega$
Attenuation	9.6 kHz: max. 0.25 dB/100 m 38.4 kHz: max. 0.4 dB/100 m 4 MHz: max. 2.2 dB/100 m 16 MHz: max. 4.2 dB/100 m
Test voltage	conductor/conductor 2000 V conductor/screen 2000 V

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#### Mechanical and thermal properties

Minimum bending radius	Minimum bending radius 8 x outer diameter
Temperature range	from -40°C up to +80°C
Flammability	flame retardant acc. to IEC 60332-3-24, FT4 (vertical tray) acc. to UL 1685
UV resistance	sunlight resistant acc. to UL 1581 Sec. 1200
General requirements	This cable is conform to the EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).

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