2170856 DATA SHEET

valid from: 01.01.2019

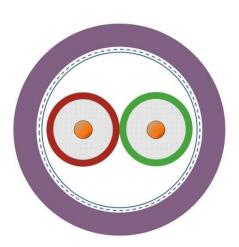
UNITRONIC® BUS PB TRAY



Application

Data cable for fieldbus system PROFIBUS DP and PROFIBUS FMS (Siemens SIMATIC NET) with "fast connect" design. The cable 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 intended for fixed installation.

Design



Certification c(UL)us type CMG (75 °C) acc. to UL 444 and CSA C22.2 No. 217-02; UL type PLTC-ER acc. to UL

13;

UL AWM style 20201 (PVC, 60 °C, 600 V, external wiring)

Conductor bare copper wire, Ø ca. 0.64 mm

Insulation foam skin PO,

core diamter ca. 2.55 mm

Core identification code a-core red, b-core green

Stranding two cores starnded together

Inner sheath PVC, outer diameter ca. 5.5 mm

Screen one layer plastic laminated aluminium foil

on top:

braid of tinned copper wires, coverage ca. 60%

Taping one layer plastic foil
Outer sheath PVC compound,

violet (similar to RAL 4001), outer diameter: ca. 8.4 mm

Electrical properties at 20°C

(at 1 kHz)

Characteristic impedance 9.6 kHz: 270 Ω ± 27 Ω 38.4 kHz: 185 Ω ± 18.5 Ω

3 bis 20 Mhz: $150 \Omega \pm 15 \Omega$ 9.6 kHz: max. 0.25 dB/100 m

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 conductor/conductor 2000 V

Test voltage conductor/conductor 2000 V

conductor/screen 2000 V

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Mechanical and thermal properties

Minimum bending radius 8 x cable diameter

Temperature range moved: -10°C up to +70°C

fixed installation: -40°C up to +80°C

Flammability flame retardant acc. to FT 4 (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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