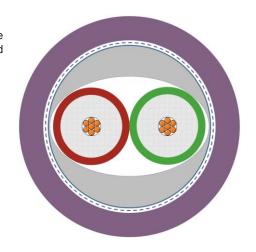
2170826 DATA SHEET Valid from: UNITRONIC® BUS PB 7-W FC



Description

01.05.2018

Data cable for the field-bus system PROFIBUS with UL and CSA approval. The cable is intended for limited flexible use and permanent installation in dry and damp interiors.



Approval

c(UL)us type CMG acc. to UL 444 CSA C22.2 No. 214-02

General characteristics

Conductor stranded bare copper wire 24/7 AWG

conductor Ø nom. 0.64 mm or approx. 0.22 mm²

Insulation foam-skin PE,

core Ø nom. 2.55 mm

Core identification code red and green
Stranding 2 cores twisted

Wrapping layer of plastic foil

Inner sheath PVC compound

outer Ø approx. 5.4 mm

Screening layer plastic-laminated aluminium foil (side with metal outwards),

braid of tinned copper wires,

coverage approx.. 65 % (nominal value)

Outer sheath PVC lead-free, TM52 acc. to DIN EN 50290-2-22

colour: violet similar RAL4001 outer Ø approx. 8.0 mm

Mechanical characteristics

Minimum bending radius during installation: 6 x cable \emptyset

fixed: 8,5 x cable Ø

Permissible temperature range during installation: -5° C up to +50° C

fixed: -40° C up to $+80^{\circ}$ C

Flame propagation flame retardant acc. to IEC 60332-3-24,

UL1685 (CSA FT4)

Sunlight resistance acc. to UL 1581 Sec. 1200

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Electrical characteristics

Resistance (loop) max. $160 \, \Omega/km$ Insulation resistance min. $16 \, M\Omega xkm$ Mutual capacitance ca. $28 \, nF/km$ (at $800 \, Hz$)

Characteristic impedance 9.6 kHz: $270~\Omega \pm 27$ 38.4 kHz: $185~\Omega \pm 18.5$

3 up to 20 MHz: $150 \Omega \pm 15$

Line attenuation 9.6 kHz: max. 0.3 dB/100 m

38.4 kHz: nom. 0.4 dB/100 m 4 MHz: max. 2.5 dB/100 m 16 MHz: nom. 4.9 dB/100 m

Velocity of propagation nom. 0,81c

Operating peak voltage 225 V (not for power purposes)

UL-rating 600 V

Test voltage (DC, 3 seconds) core/core: 3600 V

Standard

EU-Directive Dangerous and forbidden substances acc. to RoHS

directive (2011/65/EU) are not allowed to the

manufacturing.