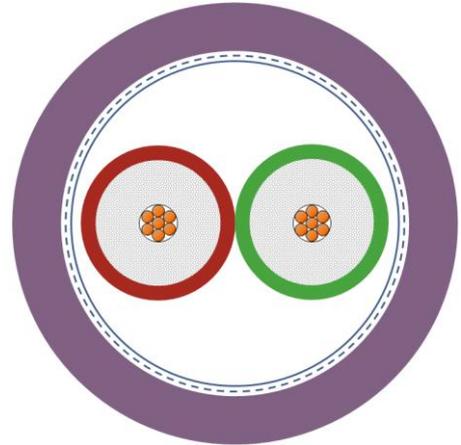


2170226	<b>DATA SHEET</b>	
Valid from: 06.07.2018	<b>UNITRONIC® BUS PB H 7-W 1x2x0.64</b>	

## Description

**UNITRONIC® BUS PB H 7-W 1x2x0.64** is a halogen free data cable which is intended for field bus systems such as PROFIBUS or other high performance data networks with 150 Ohms nominal impedance. The cable is intended for limited flexible use and for permanent installation in dry and damp interiors. Due to it's double screening it is suitable for installation in electromagnetically demanding areas.



## General characteristics

Conductor	flexible bare copper wires, 0.22mm <sup>2</sup> or 0.64mm $\emptyset$ AWG 24/7
Insulation	foam-skin PE
Core identification code	Green, Red
Stranding	cores stranded with fillers to bundle
Wrapping	Polyester tape
Screening	aluminum laminated polyester foil <u>above:</u> braiding of tinned copper wires
Outer sheath	LSZH compound outer $\emptyset$ : approx. 7.8 mm color: violett, similar to RAL 4001

## Mechanical characteristics

Minimum bending radius	flexible: 9 x cable $\emptyset$ fixed installation: 6 x cable $\emptyset$
Permissible temperature range	flexible: -5 °C up to +50 °C fixed installation: -40 °C up to +80 °C
Flame propagation	flame retardant acc. to IEC 60332-1-2
Halogen free	acc. to IEC 60754-1
Low Smoke	acc. to IEC 61034

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### Electrical characteristics

DC-Resistance (loop)	max. 186.0 Ω/km
Insulation resistance	min. 5 GΩ x km
Mutual capacitance	nom. 28 nF/km
Characteristic impedance	nom. 270 Ω (±10%) @9.6 kHz nom. 185 Ω (±10%) @38.4 kHz nom. 150 Ω (±10%) (3/20MHz)
Operating peak voltage	250 V (not for power purposes)
velocity of propagation	approx. 0.81 c
Test voltage	core / core: 1500 V core / screen: 1500 V

### Transmission properties

Transmission properties acc. to following specification:

f [MHz]	Attenuation [dB/100m]
	nominal
<b>0.0096</b>	0.3
<b>0.0384</b>	0.4
<b>4</b>	2.5
<b>16</b>	4.9

### Standard

EU-Directive

Dangerous and forbidden substances acc. to RoHS directive (2011/65/EU) are not allowed to the manufacturing.

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