
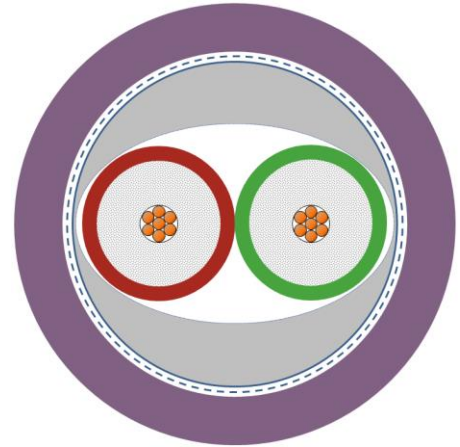


2170826	DATA SHEET	
Valid from: 01.05.2018	UNITRONIC® BUS PB 7-W FC	

Description

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 mm ²
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 Ø fixed: 8,5 x cable Ø
Permissible temperature range	during installation: -5° C up to +50° C fixed: -40° C up to +80° 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 Ω/km
Insulation resistance	min. 16 MΩxkm
Mutual capacitance	ca. 28 nF/km
Characteristic impedance	(at 800 Hz)
	9.6 kHz: 270 Ω ± 27
	38.4 kHz: 185 Ω ± 18.5
	3 up to 20 MHz: 150 Ω ± 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.
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