
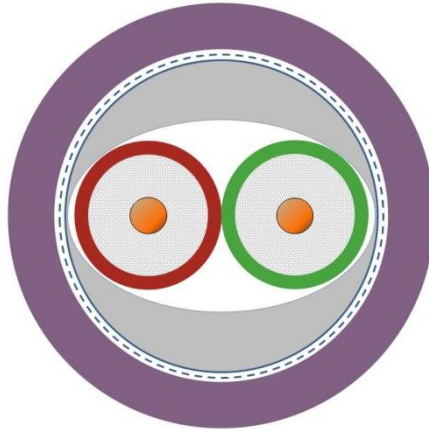


2170326	DATA SHEET	
valid from: 01.01.2019	UNITRONIC® BUS PB H FC 1x2x0,64	

Application

Halogen free fieldbus cable for fixed installation with “fast connect” design.

Design




Certification	UL/CSA type CM acc. to UL 444 and CSA C22.2 No. 214
Conductor	bare copper wire, ca. 0,65 mm \varnothing
Insulation	foam-skin PE, core \varnothing ca. 2.55 mm
Core identification code	a-core red, b-core green
Stranding	2 cores stranded to pair plastic tape, overlapping
Inner sheath	halogen free, flame retardant thermoplastic compound
Screen	aluminized foil, overlapping, longitudinally applied on top: braid of tinned copper wires, coverage ca. 55 %
Outer sheath	halogen free, flame retardant thermoplastic compound, violet, wall thickness ca. 0.9 mm, outer \varnothing : ca. 8.0 mm

Electrical properties at 20°C

Loop resistance	max. 110 Ω /km
Insulation resistance	min. 16 G Ω xkm
Mutual capacitance	ca. 28,5 nF/km (at 1 kHz)
Characteristic impedance	9,6 kHz: 270 Ω \pm 27 Ω 38,4 kHz: 185 Ω \pm 18,5 Ω 3 bis 20 Mhz: 150 Ω \pm 15 Ω
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
Velocity of propagation	ca. 81%
Peak operating voltage	100 V
Test voltage	3 sec. 3600 V

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Mechanical and thermal properties

Minimum bending radius	single: 5 x outer diameter repeated: 10 x outer diameter
Temperature range	-25 °C up to +70 °C
Flammability	flame retardant acc. to IEC 60332-3-24, UL 1685 (vertical tray)
Halogen free	halogen free acc. to IEC 60754-2
Smoke density	acc. to IEC 61034
UV resistance	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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