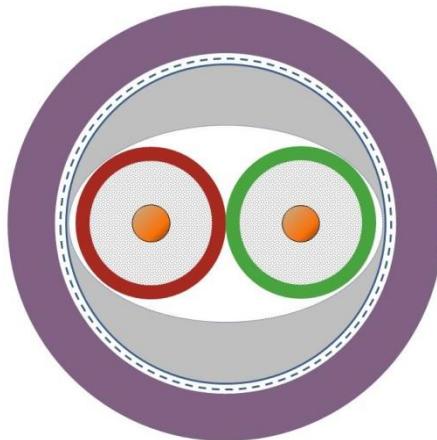


2170330

DATA SHEETvalid from:
01.01.2019**UNITRONIC® BUS PB P FC**
1x2x0,64**LAPP****Application**

UNITRONIC® BUS PB P FC 1x2x0,64 is a field bus cable with 150Ω nominal impedance and a length-related transmission rate by 93,75 kBit/s b to 12 MBit/s. The product has excellent shielding properties and is suitable for fixed installation in dry and wet rooms.

Design

Certification	UL/CSA Typ CMX acc. to UL 444 and CSA C22.2 no. 214
Conductor	bare copper wire
	AWG22/1, \varnothing approx. 0,643 mm
Insulation	foamed skin polyethylene (02YS), \varnothing 2,55 mm (nominal value)
Core identification code	red/green
Stranding	2 cores stranded to pair plastic tape (overlapping)
Inner sheath	PVC, nature, outer \varnothing approx. 5,40mm
Screen	aluminium laminated shield foil under braid, tinned copper wires, coverage 55 % \pm 5 %
Taping	(optional) thin non-woven tape, longitudinally applied
Outer sheath	PUR (TMPU), violet (similar RAL 4001), outer \varnothing : 7,8 mm \pm 0,2 mm

Electrical properties at 20°C

Insulation resistance	min. 5 GΩxkm
Characteristic impedance	270 Ω (\pm 10%) (9,6 kHz) 185 Ω (\pm 10%) (38,4 kHz) 150 Ω (\pm 10%) (3-20) MHz
Attenuation	max. 0,25 dB/100m (9,6 kHz) max. 0,4 dB/100m (38,4 kHz) max. 0,8 dB/100m (200 kHz) max. 2,2 dB/100m (4 MHz) max. 4,2 dB/100m (16 MHz)
Velocity of propagation	nom. 0,75
Signal transit time	nom. 450 ns/100m (3-20) MHz
Transfer impedance	max. 10 mΩ/m (up to 20,0 MHz)

AbN
automation

2170330

DATA SHEET

valid from:
01.01.2019

UNITRONIC® BUS PB P FC
1x2x0,64



LAPP

Mechanical and thermal properties

Minimum bending radius

fixed installation: 8 x outside diameter cable

Temperature range

fixed installation: -40 °C up to +80 °C

General requirements

This cable is conform to the EU-Directive 2011/65/EU
(RoHS, Restriction of the use of certain hazardous substances).

Creator: TOST / PDC
Released: ALTE / PDC

Document: DB2170330EN
Version: 03

Page 2 of 2