DATA SHEET 2170206

valid from: 01.01.2019

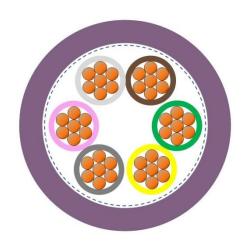
UNITRONIC® BUS IBS 3 x 2 x 0,22 mm²



Application

UNITRONIC® BUS IBS is a data cable for the field-bus system INTERBUS with a data transmission rate of 500kBit/s at a length of 400m. The field-bus cable is designed to the requirements of the bus-system INTERBUS, the transmission characteristics conform to the system and guarantee a high operating security during data transmission. UNITRONIC® BUS IBS is certified by the INTERBUS-CLUB. The cable is intended for limited flexible use and for permanent installation in dry and damp interiors.

Design



Conductor multi-wire stranded (7 x 0.2 mm) of bare copper

Insulation PE, 2YI1 in acc. to VDE 0207 part 2

Core identification code colour-coded to DIN 47100

Stranding 2 cores twisted to pair, 3 pairs laid up,

one layer polyester foil

Screen copper wire braid Outer sheath Sheath PVC.

violet, outer diameter approx 7.4 mm

Electrical properties at 20°C

Loop resistance max. 186 Ω/km Insulation resistance min. 5 G Ω x km

Mutual capacitance 800 Hz max. 60 nF/km Characteristic impedance 64 kHz Ω120 +/- 20%

1 MHz Ω 100 +/- 15%

0.256 MHz max dB/100m 1.5 Attenuation 0.772 MHz max dB/100m 2.4

4 MHz max dB/100m 5.2 10 MHz max dB/100m 8.4 16 MHz max dB/100m 11.2 20 MHz max dB/100m 11.9

Near-end cross-talk 0.772 MHz min dB 61

1 MHz min dB 59 2 MHz min dB 55 4 MHz min dB 50 8 MHz min dB 46 10 MHz min dB 44 16 MHz min dB 41 20 MHz min dB 40

Velocity of propagation nom. 0,66c

Transfer impedance 30 MHz: max. 250 m Ω/m

Peak operating voltage 250 V (not for power applications) Test voltage conductor/conductor 1500 V

1000 V conductor/screen

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Mechanical and thermal properties

Minimum bending radius fixed installation mm 64 Temperature range static -30° C up to +80° C

Flammability flame retardant to VDE 0482, part 265-2-1 / IEC 60332-1 $\,$ General requirements This cable is conform to the EU-Directive 2011/65/EU

(RoHS, Restriction of the use of certain hazardous substances).