DATA SHEET

valid from: UNITRONIC® BUS LD 1/2/3 x 2 x 0,22 mm²



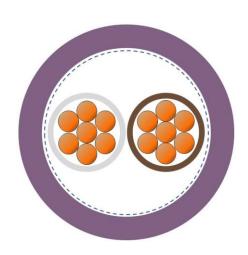
Application

2170203

UNITRONIC® BUS LD is a screened, twisted paired cable for bus systems with a data transmission rate up to 10 MBit/s. The twisting of the conductors into pairs ensures maximum interference suppression of the individual signals. The copper screening protects against external electromagnetic influences.

Cables of this composition are intended for limited flexible use and for permanent installaton in dry and damp interiors.

Design



Conductor multiple wire stranding of bare copper wires

Insulation special PE-based compound

Core identification code acc. to DIN 47100

Stranding Cores twisted into pair, pairs twisted together

plastic foil

Screen special PVC-based compound
Outer sheath special PVC-based compound
violet similar to RAL 4001

Diameter of the outer sheath

Article number	Dimension	Outer sheath Ø
2170203	1 x 2 x 0.22 mm ²	ca. 5,7 mm
2170204	2 x 2 x 0.22 mm ²	ca. 7,1 mm
2170205	3 x 2 x 0.22 mm ²	ca. 7,2 mm

Electrical properties at 20°C

Attenuation at 100 kHz nom. 0,9 dB/100m at 1 MHz nom. 2,5 dB/100m

Near-end cross-talk at 1 MHz min. 50 dB at 10 MHz min. 40 dB

Velocity of propagation nom. 0,66 c
Signal transit time nom. 5,06 ns/m

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

Peak operating voltage 250 V (not for power applications)

Test voltage conductor/conductor 1500 V conductor/screen 1000 V

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Mechanical and thermal properties

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Minimum bending radius fixed use $8 \times 6 \times 10^{-2}$ fixed use

flexible use 20 x cable Ø

Temperature range fixed use -40° C to +80° C

fixed use -40° C to $+80^{\circ}$ C flexible use -5° C to $+70^{\circ}$ C

Flammability flame retardant to IEC 60 332-1-2

General requirements This cable is conform to the EU-Directive 2011/65/EU

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