2170272

valid from:

08.02.2021

**DATA SHEET** 

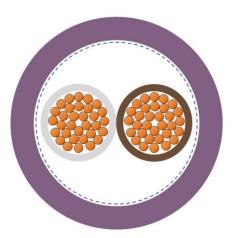
UNITRONIC<sup>®</sup> BUS CAN FD P 1x2x0,25

**S LAPP** 

## Application

UNITRONIC<sup>®</sup> BUS CAN FD P 1x2x0,25 UNITRONIC<sup>®</sup> BUS CAN FD P is a highly flexible data cable with UL and CSA certification, for CAN (Controller Area Network) fieldbus system according to ISO11898 as well as for high performance data networks with 120 Ohms nominal impedance. The transmission characteristics of the cable conform to the CAN system and guarantee a high operating security during data transmission. The possible data transmission acc. To ISO 11898 for max. 40m is 1 Mbit/s. UNITRONIC<sup>®</sup> BUS CAN FD P is intended for high flexible application in power chains, or permanently moving machines, in dry and damp interiors and in harsh industrial environment.

## Design



Certification Conductor

Insulation

Core identification code Stranding

Screen Taping Outer sheath

## Electrical properties at 20 °C

Loop resistance Insulation resistance Mutual capacitance Characteristic impedance Attenuation

Velocity of propagation Signal propagation time Transfer impedance Maximum operating voltage Rated voltage Test voltage E236660 c(UL)us CMX 75 °C acc. to UL 444 and CSA C22.2 No.214 fine-wire stranded bare copper 0.25 mm<sup>2</sup> (24 AWG) Foam-Skin Polyolefin Corediameter: ca. 1.6 mm white and brown (DIN 47100) two cores stranded to pairs on top: non-woven tape braid of tinned copper wires (coverage:  $85\% \pm 5\%$ ) non-woven tape (optional) PUR violet, similar RAL 4001 outer diameter: ca. 6.5 mm

max. 175.2 Ω/km min. 5 GΩ x km nom. 48 nF/km (at 800 Hz)  $120~\Omega\pm15~\%$ 100 kHz nom. 0,6 dB/100m 1 MHz nom. 1,5 dB/100m 5 MHz nom. 4,3 dB/100m 10 MHz nom. 8,1 dB/100m 20 MHz nom. 10,5 dB/100m 0.76 c 4.4 ns/m max. 250 m $\Omega$ /m up to 30 MHz 250 V (not for power purposes) 300 V acc. to UL 444 Core/Core: 1500 V AC Core/Screen: 1000 V AC

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## Mechanical and thermal properties

Minimum bending radius	flexing: fixed installation:	15 x outer diameter 10 x outer diameter
Temperature range	flexing: fixed installation:	-30 °C to +70 °C -40 °C to +80 °C
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2 VW-1 acc. to UL 1581 §1080	
Halogen free	acc. to VDE 0472-815	
General requirements	This cable is conform to EU-Directive 2014/35/EU (Low Voltage Directive) and to EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).	
Environmental information	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).	

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