

## CAN bus line

### Function

The two-pair **CAN bus line** is used to cable CAN bus systems in accordance with ISO 11898 with UL- and CSA approval and bus systems of 120 Ohm nominal impedance. The power supply of the bus logic can be rendered via the second pair in the cable.

The transmission properties of the lines are CAN system-conforming and ensure a high data transmission security.

The line is suitable for permanent and partly flexible installation in dry and wet rooms.

### Electrical parameters

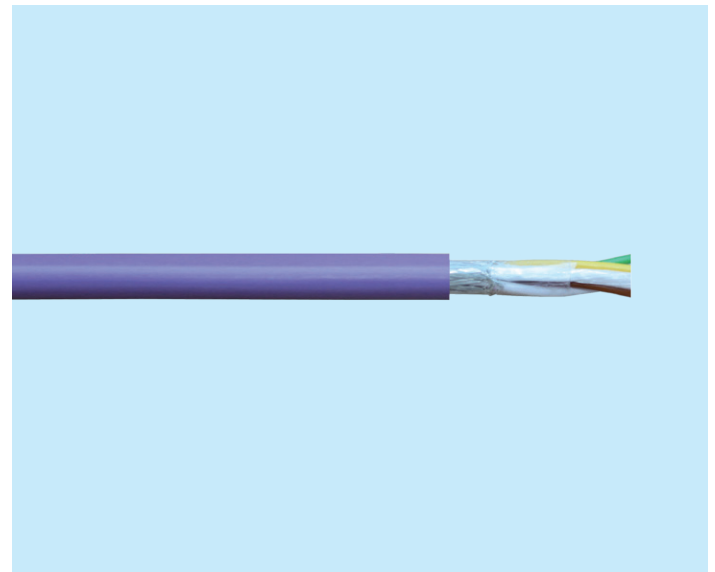
- Surge impedance: 120 Ohm
- Conductor resistance (loop): max. 115 Ohm/km
- Insulation resistance: min. 5 GOhm x km
- Coupling resistance (up to 30 MHz): max. 250 MOhm/m
- Effective capacitance (at 800Hz): max. 40 nF/km
- Working voltage peak: 250 V
- Test voltage: core/core: 1,500 V  
core/shield: 1,000 V

### Design

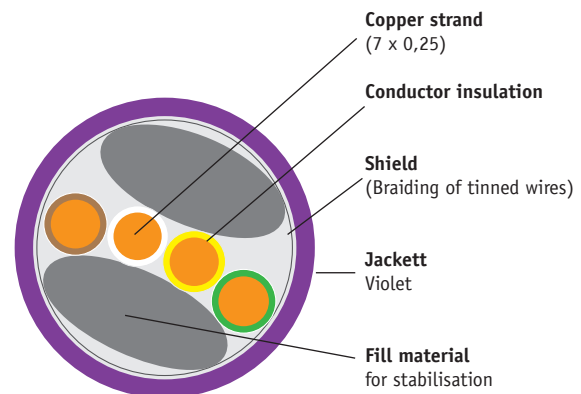
- Conductor: Copper wire bright 0.34 mm<sup>2</sup>, 7-wire
- Insulating covering: cellular-PE or foam skin, core diameter: approx. 1.7 mm
- Core arrangement: 2 cores laid up as pair, 2 pairs laid up with two fillers for cable core assembly  
Pair 1: white and brown  
Pair 2: green and yellow
- Shield: braid made of tinned copper wires
- Sheath: PVC
- Colour: Outside diameter: 8,5 mm  
violet (RAL 4001)

### Mechanical and technical properties

- Min. bending radius: laid: 8 x Line diameter
- Temperature range: laid: -30°C to +80°C  
moved: -5°C to +70°C
- Burning behaviour: flame retardant based on VDE 0482, Part 265-2-1 / IEC 60332-1-2



CAN bus line



Engineering drawing

### Ordering details

### Art. No.

CAN bus line

119050000