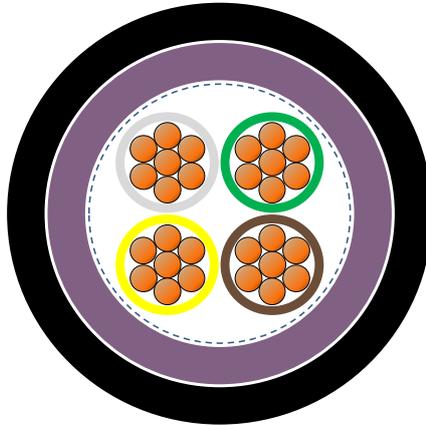


2170500	DATA SHEET	
valid from: 2025-12-19	UNITRONIC® BUS CAN BURIAL 1x4x 0.5 mm²	

Application

Data cable for the CAN bus system (Controller Area Network) acc. to ISO 11898 and for data bus systems with 120 Ohm impedance. The cable is intended for fixed installation in dry and damp interiors and for direct burial.



Design

Conductor	stranded bare copper wire, 20 AWG (7 x ca. 0.32)
Insulation	foam-skin PE, core diameter ca. 1.9 mm
Core identification code	white, yellow, brown, green
Stranding	cores stranded to star quad
Pair screen	plastic tape
Screen	braid of tinned copper wires (coverage: nom. 85 %)
Outer sheath	PVC, violet, Inner sheath outer \varnothing : ca. 7.1 mm on top outer sheath PE, black, outer \varnothing : ca. 9.0 mm

Electrical properties at 20 °C

Loop resistance	max. 74 Ω /km
Insulation resistance	min. 1 G Ω xkm
Mutual capacitance	ca. 40 nF/km (at 800 Hz)
Characteristic impedance	1 MHz: 120 Ω \pm 12 Ω
Maximum operating voltage	300 V (not intended to be used in conjunction with low impedance sources, such as power grids)
Test voltage	core/core: 1500 V core/screen: 1500 V

Mechanical and thermal properties

Minimum bending radius	fixed installation: 4 \times outer diameter occasional flexing: 8 \times outer diameter
Temperature range	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).

Environmental information These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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