

2170560	DATA SHEET	
valid from: 01.01.2019	UNITRONIC® BUS IS PVC 2x6+2x2,5+1x4x0,5	

Application

UNITRONIC® BUS IS PVC 2x6+2x2,5+1x4x0,5 is a bus cable for ISOBUS for agricultural engines acc. to ISO 11783-2

Design



Conductor	All bare copper, fine wire stranded 1) 1x4x0,50 mm²: conductor ca. 0.50 mm² 2) 2x2,50 mm²: ca. 2.50 mm² 3) 2x6 mm²: ca. 6.00 mm²
Insulation	1) 1x4x0,50 mm²: PVC, core diameter ca. 2.5 mm 2) 2x2,50 mm²: PVC, core diameter ca. 3.0 mm 3) 2x6 mm²: PVC, core diameter ca. 4.8 mm
Core identification code	1) 1x4x0,50 mm²: red, green, black, yellow 2) 2x2,50 mm²: red, black 3) 2x6 mm²: red, black
Stranding	1) 1x4x0,50 mm²: four cores twisted together (contingent synthetic filler) Element (1) stranded together with the 2.5 mm² cores of element (2) and the 6.00 mm² cores of element (3) (contingent synthetic filler)
Taping	non-woven tape
Outer sheath	PVC, black (similar to RAL 9005), outer diameter: ca. 15.6 mm

Electrical properties at 20°C

Conductor resistance	1) 1x4x0,50 mm²: max. 39.0 Ω/km 2) 2x2,50 mm²: max. 7,98 Ω/km 3) 2x6 mm²: max. 3,30 Ω/km
Specific volume resistivity	1) 1x4x0,50 mm²: min. 20 GΩxcm 2) 2x2,50 mm²: min. 20 GΩxcm 3) 2x6 mm²: min. 20 GΩxcm
Mutual capacitance	1) 1x4x0,50 mm²: CAN_H to CAN_L 75 pF/km to contiguous cores 110 pF/km
Characteristic impedance	1) 1x4x0,50 mm²: 75 Ω (at 1 MHz)
Peak operating voltage	1) 1x4x0,50 mm²: 40 V 2) 2x2,50 mm²: max. 500 V 3) 2x6 mm²: max. 500 V
Test voltage	1) 1x4x0,50 mm² (AC, 5 min.): 2500 V 2) 2x2,50 mm² (AC, 5 min.): 1500 V 3) 2x6 mm² (AC, 5 min.): 2500 V

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Mechanical and thermal properties

Minimum bending radius	fixed installation: 10 x cable diameter moved: 15 x cable diameter
Temperature range	fixed installation: -30°C up to +85°C moved: -5°C up to +50°C
Flammability	flame retardant acc. to IEC 60332-1-2
General requirements	This cable is conform to the EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).

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