


2170563	DATA SHEET	
valid from: 01.01.2019	UNITRONIC® BUS IS PUR 1x4x0,5	

Application

UNITRONIC® BUS IS PUR 1x4x0,5 is a bus cable for ISOBUS for agricultural engines acc. To ISO 11783-2.

Design

Conductor	bare copper, fine-wire stranded, ca. 0.50 mm ²
Insulation	PVC, core diameter ca. 2.5 mm
Core identification code	red, green, black, yellow
Stranding	four cores twisted together (contingent synthetic filler)
Outer sheath	PUR compound, black (similar to RAL 9005), outer diameter: ca. 8.0 mm

Electrical properties at 20°C

Conductor resistance	max. 39.0 Ω/km
Specific volume resistivity	min. 20 GΩxcm
Mutual capacitance	CAN_H to CAN_L: 75 pF/km between adjacent cores: 110 pF/km
Characteristic impedance	75 Ω (at 1 MHz)
Peak operating voltage	40 V
Test voltage	2500 V (AC, 5 min.)

Mechanical and thermal properties

Minimum bending radius	fixed installation: 10 x cable diameter moved: 15 x cable diameter
Temperature range	fixed installation: -40°C up to +85°C moved: -5°C up to +50°C
Flammability	flame retardant acc. to IEC 60332-1-2
UV resistance	acc. to UL 1581, Sec. 1200
Ozone resistance	acc. to VDE 0472-1
MUD resistance	acc. to IEC 61892-4, addendum D
Tests	acc. to VDE 0282-10
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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