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|---------------------------|--|---|
| 2170562                   | <b>DATA SHEET</b>                        |  |
| valid from:<br>01.01.2019 | <b>UNITRONIC® BUS IS PVC<br/>1x4x0,5</b> |   |

### Application

UNITRONIC® BUS IS PVC 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 <sup>2</sup>                   |
| 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             | PVC compound,<br>black (similar to RAL 9005),<br>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<br>to contiguous 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<br>moved: 15 x cable diameter   |
| Temperature range      | fixed installation: -30°C up to +85°C<br>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<br>(RoHS, Restriction of the use of certain hazardous substances). |

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