
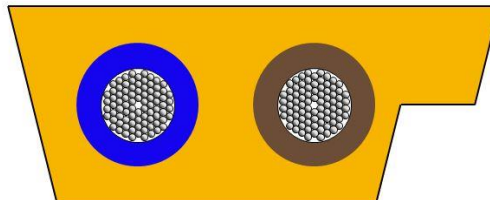


2170230	<b>DATA SHEET</b>	
valid from: 01.01.2019	<b>UNITRONIC® BUS AS-INTERFACE (TPE)</b>	

## Application

Field bus cable for AS-Interface (actuator-sensor interface) networking system for the lower field area. Data transmission for AS-Interface telegrams and power supply for AS-I slaves, master, repeater, extender and sensors is done via this unscreened, geometrically-coded two-core flat cable. The contacting of the conductors by the insulation-displacement-system of the AS-I modules is possible without stripping the insulation. The oil-resistant outer sheath of this field bus cable recommends its use in typical industrial environment, especially in wet areas of automotive industry and machining centers in combination with water-based and water-mixable cooling lubricants. The cable is intended for flexible application and permanent installation in dry and damp interiors.

## Design



Conductor	tinned copper, fine-wire stranded, nom. 1.5 mm <sup>2</sup> acc. To IEC 60228/VDE 0295 (class 6)
Insulation	oil resistant TPE, core Ø nom. 2.5 mm
Core identification code	cores brown and blue
Stranding	2 cores parallel deviation, the brown core is assembled inline with the leading edge
Outer sheath	oil resistant TPE, yellow similar to RAL 1021 (article number 2170230), black similar to RAL 9005 (article number 2170231) or red similar to RAL 3000 (article number 2170232)

## Electrical properties at 20°C

Loop resistance	max. 27,4 Ω/km
Specific volume resistivity	min. 10 GΩxcm
Mutual capacitance	max. 80 nF/km
Inductance	0.5 mH/km up to 0.75 mH/km
Characteristic impedance	70 Ω up to 140 Ω (at 167 kHz)
Peak operating voltage	300 V (not for power purposes)
Test voltage	conductor/conductor 2000 V

## Mechanical and thermal properties

Minimum bending radius	moved: 16 mm in center line static: 12 mm in center line
Temperature range	moved: -30° C up to +85° C static: -40° C up to +85° C
Halogen free	acc. to VDE 0472-815
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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