
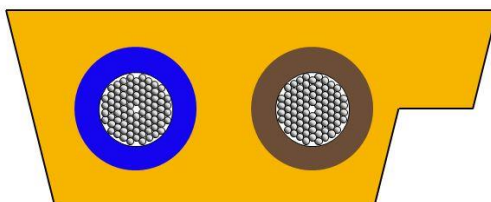


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| 2170230 | DATA SHEET |  |
| valid from: 01.01.2019 | UNITRONIC® BUS AS-INTERFACE (TPE) | |

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



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|--------------------------|---|
| Conductor | tinned copper, fine-wire stranded, nom. 1.5 mm ² 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

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|-----------------------------|----------------------------------|
| 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

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|------------------------|---|
| 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). |

AbN
automation

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