

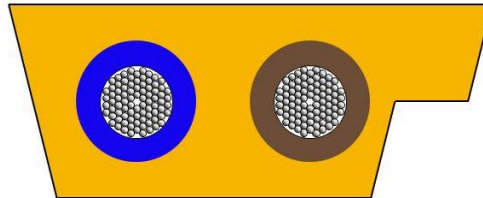
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| 2170830 | DATA SHEET |  |
| valid from: 01.01.2019 | UNITRONIC® BUS ASI FD TPE A | |

Application

UNITRONIC® BUS ASI FD (TPE) A is a field-bus cable with two cores for AS-INTERFACE (Actuator-Sensor Interface). The cable is oil and cutting oil resistant and has a good resistance against chemicals in general.

The cable is intended for flexible application and permanent installation in interiors. The cable can be used in power chains.

Design



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| Certification | UL AWM Style 2103, CSA AWM II A/B 105°C 300V FT1 |
| Conductor | tinned copper, ca. 1.5 mm \varnothing , super-fine-wire stranded |
| Insulation | TPE, core diameter ca. 2.5 mm |
| Core identification code | colors of the cores: brown (+), blue (-) |
| Stranding | core identification: two cores parallel deviation brown core assembled in line with leading edge |
| Outer sheath | TPE, dimensions and tolerances acc. to ASI specification sheath colors: art.no. 2170830: yellow (similar to RAL 1012) art.no. 2170831: black (similar to RAL 9005) |

Electrical properties at 20°C

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|--------------------------|---|
| Conductor resistance | max. 13.7 Ω /km |
| Insulation resistance | min. 1 M Ω km |
| Mutual capacitance | 1 kHz: max. 80 nF/km |
| Inductance | 0.5 mH up to 0.75 mH/km |
| Characteristic impedance | 167 kHz: 70 Ω up to 140 Ω |
| Peak operating voltage | 300 V (not for power purposes) |
| Rated voltage | ca. 30 V |
| Test voltage | rms, 50 Hz, 1 min.: core /core 2000 V |

Mechanical and thermal properties

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|------------------------|--|
| Minimum bending radius | on broadside: power chain horizontal: 75 mm power chain vertical: 50 mm multiple bendings: \geq 24 mm single: \geq 12 mm |
| Temperature range | during installation: -30 °C up to +105 °C before and after installation: -40 °C up to +105 °C |
| Flammability | flame retardant acc. to IEC 60332-1-2 flame retardant acc. to UL 1581 Sec. 1061 (Cable Flame) |
| Oil resistance | oil resistant acc. to UL 758, Sec. 15 (60°C) |
| 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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