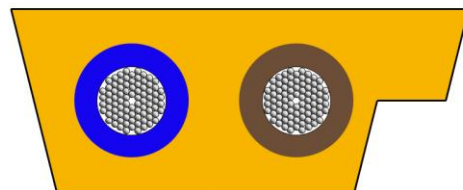


2170842	DATA SHEET	
Valid from: 28.05.2018	UNITRONIC® BUS ASI (PVC) A	

Description

UNITRONIC® BUS ASI PVC A is a two-core and flat actuator/sensor bus cable with increased fire resistance and UL approvals for the AS-INTERFACE (actuator-sensor-interface) networking system for the lower field area. The cable is particularly suitable for applications with high mechanical stress which require a high oil resistance. It is suitable for fixed installation and flexible applications and is flame retardant. 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 cable is designed for indoor applications.



Approvals

c(UL)us Type CMG 90°C acc. to UL 444
 (UL) PLTC/CL2 acc. to UL 13
 c(RU)us UL AWM style 2095 acc. to UL 758

Variations

Part-Nr.	Colour
2170842	Yellow, similar RAL 1012
2170843	Black, similar RAL 9005
2170844	Red, similar RAL 3000

General characteristics

Conductor	Extra-fine-stranded, tinned copper wires, Conductor Ø approx. 1.5 mm
Insulation	PVC-compound Core Ø approx. 2.5 mm
Core identification code	Brown(+) and Blue(-)
Stranding	2 cores parallel deviation brown core assembled in line with leading edge
Outer sheath	PVC compound Colour in accordance with variations and part number outer Ø and dimensions in accordance with ASI specification

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Mechanical characteristics

Minimum bending radius (on broadside)	power chain horizontal	75 mm
	power chain vertical	50 mm
Permissible temperature range	multiple bendings	≥ 24 mm
	single	≥ 12 mm
Flame propagation	fixed installation	-30 °C up to +90 °C
	at installation	-20 °C up to +90 °C
Oil resistance	flame retardant acc. to IEC 60332-1-2	
	flame retardant acc. to UL 1581 Sec. 1090 (Horizontal Cable Flame)	
	flame retardant acc. to UL 1581 Sec. 1100 (FT-2)	
	flame retardant acc. to UL 1685 (CSA FT 4)	
	acc. to UL 1581, Sec. 480 (60 °C)	

Electrical characteristics

Resistance	max. 13.7 Ω/km
Insulation resistance	min. 1 MΩ x km
Mutual capacitance	nom. 80 nF/km at 800 Hz
Inductance	0.5 - 0.75 mH/km
Characteristic impedance	70 - 140 Ω at 167 kHz
Operating peak voltage	300 V (not for power purposes)
Test voltage	core/core: 2000 V

Standard

EU-Directive	Dangerous and forbidden substances acc. to RoHS directive (2011/65/EU) are not allowed to the manufacturing.
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