

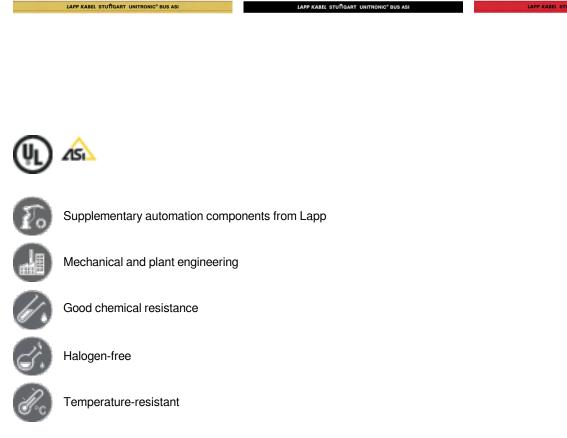
## PRODUCT INFORMATION

# **UNITRONIC® BUS ASI**

AS-INTERFACE cables for networking systems in the field

Communication at sensor/actuator level. Halogen free (rubber), UL-approval (PVC), oil resistant (TPE). Temperature range from -40°C bis +90°C

Info "LD" = Long Distance



#### **Benefits**

The new BUS ASI LD 2 x 2.5 (Long Distance) allows even modules located further away to be connected. AS-I power supplies can be reduced. The BUS ASI LD is downwards-compatible with version 1.5. The rubber versions are halogen-free

#### Application range

Communication at sensor/actuator level Sensor-/actuator wiring For fixed installation as well as occasional flexing at free, non-continuously recurring movement without tensile load The TPE version has an oil-resistant outer sheath. It is suitable for wet areas, in particular in conjunction with water-soluble cooling lubricants.

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### **Product features**

Data and power are transmitted via an unscreened, geometrically coded two-core flat cable (protection against polarity reversal). The conductor is contacted by "piercing technology" within the ASI modules.

The sensors are connected to the ASI modules (coupling modules) using round cables (connection cables).

### Norm references / Approvals

ASI is standardised Europe-wide in EN 50295 and internationally in IEC 62026-2. PVC A version with UL/CSA (CMX) certification UL/CSA version: CMG c(UL)us or (UL)CL2 or AWM 300V FT4 certified

#### **Product Make-up**

Conductor: fine-wire tinned-copper strands Core insulation: blue and brown Outer sheath: rubber (G), halogenfree thermoplastic elastomers (TPE) PVC Outer sheath: yellow (RAL 1023), black (RAL 9005), red (RAL 3000), grey

## **Technical Data**

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable	
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000830 ETIM 6.0 Class-Description: Data cable	
Peak operating voltage:	Yellow: 300 V (not for power applications) Black: 300 V (not for power applications) Red: 300 V	
Conductor resistance:	1.5 mm²: max. 13.7 Ohm/km 2.5 mm²: max. 8.21 Ohm/km	
Minimum bending radius:	Fixed installation: 12 mm Flexible use 24 mm	
Test voltage:	Core/core: 2000 V	
Temperature range:	Dependent on outer sheath material: PVC: -30 °C to +90 °C Other materials: -40 °C to +85 °C During installation: PVC -20 °C to +90 °C Other materials: -30 °C to +85 °C	

#### Note

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Lapp Kabel is a member of the AS-International Association

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

Prices are net prices without VAT and surcharges. Sale to business customers only.

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Article number	Article designation	Outer sheath colour	Application	Number of cores and mm <sup>2</sup> per conductor	Copper index (kg/km)	Weight (kg/km)
Gummi/EPDM	·					
2170228	UNITRONIC® BUS ASI (G)	yellow	Data and power transmission	2 x 1.5	29	85
2170229	UNITRONIC® BUS ASI (G)	black	Transmission of 30 V DC auxiliary power	2 x 1.5	29	85
21700230	UNITRONIC BUS ASI (G) 2X1.5 GY	grey	Transmission of 30 V DC auxiliary power	2 x 1.5	29	85
2170371	UNITRONIC® BUS ASI LD (G)	yellow	Data and power transmission	2 x 2.5	48	85
2170372	UNITRONIC® BUS ASI LD (G)	black	Transmission of 30 V DC auxiliary power	2 x 2.5	48	85
21700373	UNITRONIC BUS ASI LD (G) GY 2X2.5	grey	Transmission of 30 V DC auxiliary power	2 x 2.5	48	85
TPE			÷			
2170230	UNITRONIC® BUS ASI (TPE)	yellow	Data and power transmission	2 x 1.5	29	64
2170231	UNITRONIC® BUS ASI (TPE)	black	Transmission of 30 V DC auxiliary power	2 x 1.5	29	64
2170232	UNITRONIC® BUS ASI (TPE)	red	Transmission of 230 V AC auxiliary power	2 x 1.5	29	64
PVC UL/CSA			·			
2170842	UNITRONIC® BUS ASI (PVC) A	yellow	Data and power transmission	2 x 1.5	29	70
2170843	UNITRONIC® BUS ASI (PVC) A	black	Transmission of 30 V DC auxiliary power	2 x 1.5	29	70
2170844	UNITRONIC® BUS ASI (PVC) A	red	Transmission of 230 V AC auxiliary power	2 x 1.5	29	70

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