

U.I. Lapp GmbH	PRODUCT INFORMATION	
	UNITRONIC® BUS ASI	14.11.2013

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



Automation



Good chemical resistance



Halogen-free



Industrial machinery and plant engineering



Temperature-resistant

Info

“LD” = Long Distance

Application range

Communication at sensor/actuator level

UNITRONIC® Fieldbussensor-/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.

Design

Extra-fine wire, tinned copper strands

Core insulation: blue and brown

Profiled outer sheath made of rubber (G), thermoplastic elastomers (TPE) or PVC

Colour: yellow (RAL 1023) or black (RAL 9005)

Colour: red (RAL 3000)


Norm references / Approvals

ASI is standardised Europe-wide in EN 50295 and internationally in IEC 62026-2.

PVC version has UL/CSA (CMG) approval.

UL/CSA version: CMGc(UL)us or (UL)CL2 or AWM 300V FT4 approval

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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).

Remark

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

Copper price basis: EUR 150/100kg. 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 are not to scale and do not represent detailed images of the respective products.

Technical Data


Peak operating voltage:	Yellow: 300 V (not for power applications) Black: 300 V (not for power applications) Red: 300 V
Conductor resistance:	1.5 mm ² : max. 13.7 Ohm/km 2.5 mm ² : 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

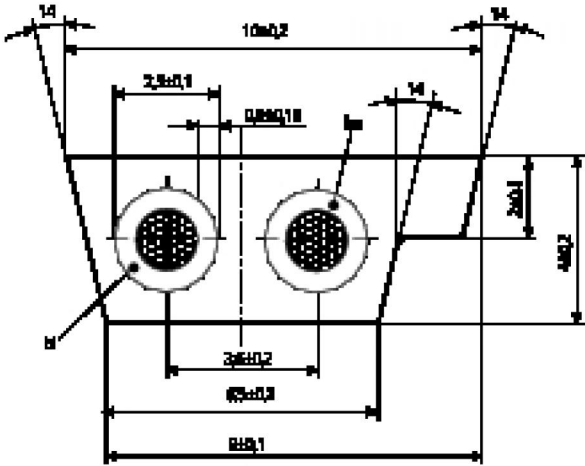
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Part number	Article designation	Outer sheath material	Outer sheath colour	Application	Number of cores and mm ² per conductor	Copper index (kg/km)	Weight (kg/km)
For fixed and flexible applications (19-wire stranded conductor)							
2170228	UNITRONIC® BUS ASI (G)	EPDM (rubber)	yellow	Data and power transmission	2 x 1,5	29.0	85
2170229	UNITRONIC® BUS ASI (G)	EPDM (rubber)	black	Transmission of 30 V DC auxiliary power	2 x 1,5	29.0	85
2170371	UNITRONIC® BUS ASI LD (G)	EPDM (rubber)	yellow	Data and power transmission	2 x 2,5	48.0	85
2170372	UNITRONIC® BUS ASI LD (G)	EPDM (rubber)	black	Transmission of 30 V DC auxiliary power	2 x 2,5	48.0	85
2170230	UNITRONIC® BUS ASI (TPE)	TPE	yellow	Data and power transmission	2 x 1,5	29.0	64
2170231	UNITRONIC® BUS ASI (TPE)	TPE	black	Transmission of 30 V DC auxiliary power	2 x 1,5	29.0	64
2170232	UNITRONIC® BUS ASI (TPE)	TPE	red	Transmission of 230 V AC auxiliary power	2 x 1,5	29.0	64
2170842	UNITRONIC® BUS ASI (PVC) A	PVC UL/CSA (CMG)	yellow	Data and power transmission	2 x 1,5	29.0	70
2170843	UNITRONIC® BUS ASI (PVC) A	PVC UL/CSA (CMG)	black	Transmission of 30 V DC auxiliary power	2 x 1,5	29.0	70
2170844	UNITRONIC® BUS ASI (PVC) A	PVC UL/CSA (CMG)	red	Transmission of 230 V AC auxiliary power	2 x 1,5	29.0	70

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