

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

LAPP KABEL STUFGART UNITRONIC® BUS ASI

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Supplementary automation components from Lapp



Mechanical and plant engineering



Good chemical resistance



Halogen-free



Temperature-resistant

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 Management www.lappkabel.de

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02_03.16

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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)

Technical Data

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

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 ² per conductor | Copper index (kg/km) | Weight (kg/km) |
|----------------|----------------------------|---------------------|--|---|----------------------|----------------|
| 2170844 | UNITRONIC® BUS ASI (PVC) A | red | Transmission of 230 V AC auxiliary power | 2 x 1.5 | 29 | 70 |
| 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 |
| 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 |
| 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 |

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