



New

UNITRONIC® BUS ASI

LAPP KABEL STUÏTGART UNITRONIC® BUS ASI

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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
- UNITRONIC® Fieldbus 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.

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

Product make-up

- 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)

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 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

| Article 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 |

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.

Accessories

- SKINTOP® DIX-M AUTOMATION refer to page 681
- UNIVERSAL STRIP stripping and cutting tool refer to page 910
- AS-I clip clamp / AS-I end sealing refer to page 968
- AS-I STRIP special stripping tool refer to page 912
- AS-I STRIP special
- SKINTOP® DIX ASI

ÖLFLEX® UNITRONIC® ETHERLINE® HITRONIC® EPIC® SKINTOP® SILVYN® FLEXIMARK® ACCESSORIES APPENDIX