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| U.I. Lapp GmbH | PRODUCT INFORMATION |  |
| | UNITRONIC® BUS ASI FD | 05.11.2015 |

Highly flexible application

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.

For highly flexible applications (power chains, moving machine parts)

High oil-resistance

LAPP KABEL STUTTGART UNITRONIC® BUS ASI FD

LAPP KABEL STUTTGART UNITRONIC® BUS ASI FD



Automation & fältinstallation



Single halogen-free cable



Industrial machinery and plant engineering



Power chain



Temperature-resistant

Info

"FD" = suitable for power chains

"LD" = Long Distance

Application range

Communication at sensor/actuator level

UNITRONIC® Fieldbus

sensor-/actuator wiring

Product Make-up

Extra-fine wire, tinned copper strands

Core insulation: blue and brown

Profiled outer sheath: TPE or PUR

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

Norm references / Approvals

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

TPE variant: UL AWM Style 2103

CSA AWM II A/B

PUR versions: UL AWM Style 20549

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Product features

PUR versions are halogen-free according to IEC 60754-1

Flame-retardant according to IEC 60332-1-2, UL FT-2 flame test

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 150/100 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 are not to scale and do not represent detailed images of the respective products.

Technical Data

Peak operating voltage: 300 V (not for power applications)

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
Flexing without fixing: 24 mm
Flexing with fixing: 60 mm (15 x D)

Test voltage: Core/core: 2000 V

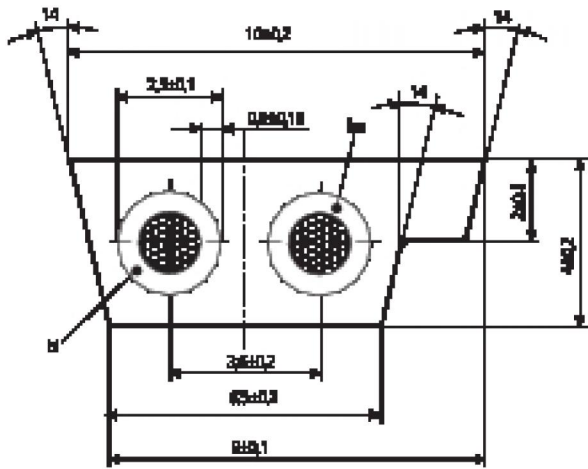
Temperature range: Fixed installation:
-40 °C to +80 °C (TPE +105 °C)
Flexing – without fixing:
-30 °C to +70 °C (TPE +105 °C)

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| Part number | Article designation | Outer sheath material | Outer sheath colour | Application | Number of cores and mm² per conductor | Copper index (kg/km) | Weight (kg/km) |
|---|-------------------------------|-----------------------|---------------------|---|---------------------------------------|----------------------|----------------|
| For highly flexible applications (power chains, moving machine parts) | | | | | | | |
| 2170357 | UNITRONIC® BUS ASI FD P FRNC | PUR UL/CSA (AWM) | yellow | Data and power transmission | 2 x 1,5 | 29.0 | 64 |
| 2170358 | UNITRONIC® BUS ASI FD P FRNC | PUR UL/CSA (AWM) | black | Transmission of 30 V DC auxiliary power | 2 x 1,5 | 29.0 | 64 |
| 2170317 | UNITRONIC® BUS ASI LD FD P | PUR UL/CSA (AWM) | yellow | Data and power transmission | 2 x 2,5 | 48.0 | 74 |
| 2170318 | UNITRONIC® BUS ASI LD FD P | PUR UL/CSA (AWM) | black | Transmission of 30 V DC auxiliary power | 2 x 2,5 | 48.0 | 74 |
| 2170830 | UNITRONIC® BUS ASI FD (TPE) A | TPE UL/CSA (AWM) | yellow | Data and power transmission | 2 x 1,5 | 29.0 | 64 |
| 2170831 | UNITRONIC® BUS ASI FD (TPE) A | TPE UL/CSA (AWM) | black | Transmission of 30 V DC auxiliary power | 2 x 1,5 | 29.0 | 64 |

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