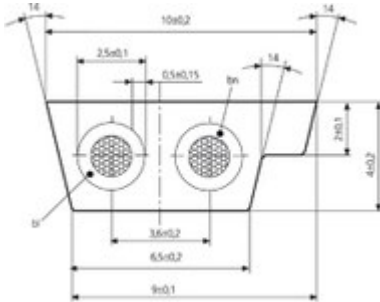


Highly flexible application

Product Description

For highly flexible application (power chains, frequently moved machine parts); Increased oil resistance



LAPP KABEL STUTTGART UNITRONIC® BUS ASI FD

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Application range

- Communication at Sensor / Actuator level
- UNITRONIC® Fieldbus sensor-/actuator wiring requirements

Benefits

- For highly flexible application (power chains, frequently moved machine parts)
- Increased oil resistance

Design

- Extra fine strands of plain copper wires (Class 6)
- Core insulation: blue and brown
- Profiled outer sheath of thermoplastic elastomer (TPE) or polyurethane (PUR)
- Colour: yellow (RAL 1023) or black (RAL 9005)

Approvals (Norm references)

- 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 variant: UL AWM Style 20549

Product features

- PUR variant is halogen-free in accordance with IEC 60754-1
- Flame retardant according to IEC 60332-1-2 / UL FT-2 flame test
- Data and energy are transmitted both via an unscreened, geometrically coded two-core flat cable (protection against polarity reversal).
- The conductor is contacted by "piercing technology" within the ASI-modules.
- Connection of sensors to the ASI module (coupling module) is carried out using round cables (connection cables).

Cross-References

Accessories

AS-I STRIP special
SKINTOP® DIX ASI

Technical Data

Peak working voltage

(not for power applications) 300 V

Conductor resistance

(loop): max. 27.4 Ohm/km

Minimum bending radius

Fixed installation: 12 mm

Flexing without fixing: 24 mm Flexing with fixing:
60mm (15xD)

Test voltage

Core/core: 2000 V

Range of temperature

Fixed installation: -40°C up to +80°C (TPE +105°C)

Flexing - without fixing: -30°C up to +70°C (TPE +105°C)

Article List

Part number	Article designation	Sheath material	Sheath colour	Application	Number of cores and mm ² per conductor	Copper index kg/km	Weight kg/km
For highly flexible application (power chains, frequently moved machine parts)							

2170311	UNITRONIC® BUS ASI FD P FRNC	PUR UL/CSA (AWM)	yellow	Data and energy transmission	2 x 1,5	29.0	64
2170312	UNITRONIC® BUS ASI FD P FRNC	PUR UL/CSA (AWM)	black	Transmission auxiliary 30V DC	2 x 1,5	29.0	64
2170830	UNITRONIC® BUS ASI FD (TPE) A	TPE UL/CSA (AWM)	yellow	Data and energy transmission	2 x 1,5	29.0	64
2170831	UNITRONIC® BUS ASI FD (TPE) A	TPE UL/CSA (AWM)	black	Transmission auxiliary 30V DC	2 x 1,5	29.0	64

Footnote:

All product related values as shown are nominal values unless specified differently. Further values, e.g. tolerances we submit on request - if available and released for publication.

Copper price basis: EUR 150 / 100 kg; For utilization and definition of 'Metal price basis' and 'Metal index' see Appendix T17

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.