

UNITRONIC® BUS AS-INTERFACE

Industrial communication in the actuator/sensor level

AS-INTERFACE

LAPP KABEL STUÏGART UNITRONIC® BUS AS INTERFACE

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AS-I = Actuator-Sensor-Interface

Application

Network system for the lowest field level (binary sensors and actuators). Data and energy are transmitted between control unit and peripherals via an unshielded, geometrically coded two-core flat cable (pole safe). The conductor is contacted by piercing technology within the AS-I-modules. AS-INTERFACE is standardised Europe-wide in EN 50295.

Note

Special sealing inlet for AS-INTERFACE bus cable: please see SKINTOP® DIX-AS-I on page 9.94.

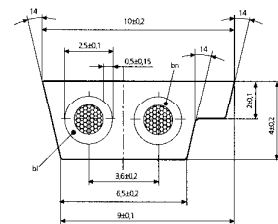
Mounting sockets AS-I please see in Chapter 11 Cable Accessories.

Connection of sensors to the AS-I-module (coupling module) is done by means of round cable (connection cable).

LAPP KABEL is a member of the User Organisation AS-International Association.

Cable Make-up

Fine wire strand 1,5 mm², core insulation (blue and brown) and profiled outer sheath of thermoplastic elastomer (TPE), resp. rubber (G), colour yellow (RAL 1023) and black (RAL 9005). Due to its oil-resistant outer sheath the TPE version can be used in typically industrial environments, e.g. wet premises of automobile industry, processing centres, especially in connection with cooling lubricants which are mixed with water. The TPE (UL/CSA) version is UL and CSA approved.



Technical Data

Minimum bending radius for static: 3 x cable diameter
flexing: 6 x cable diameter

Temperature range:
static: -40 °C to +70 °C
flexing: -30 °C up to +75 °C

Peak working voltage:
(not f. power purpose) 300 V

Approval:
(TPE) UL/CSA version: UL and CSA approved

Conductor resistance:
(loop): max. 27.4 Ohm/km

Test voltage:
conductor/conductor: 2000 V

Part number	Type	Sheath material	Sheath colour	Application	No. of cores and mm ² per conductor	Copper weight kg/km approx.	Weight kg/km
for stationary application							
2170 228	UNITRONIC BUS AS-I (G)	EPDM (rubber)	yellow	Data and energy transmission	2 x 1.5	28,8	57
2170 229	UNITRONIC BUS AS-I (G)	EPDM (rubber)	black	Auxiliary energy transmission 24 V DC	2 x 1.5	28,8	57
2170 230	UNITRONIC BUS AS-I (TPE)	TPE	yellow	Data and energy transmission	2 x 1.5	28,8	57
2170 231	UNITRONIC BUS AS-I (TPE)	TPE	black	Auxiliary energy transmission 24 V DC	2 x 1.5	28,8	57
2170 830	UNITRONIC BUS AS-I (TPE) UL/CSA	TPE	yellow	Data and energy transmission	2 x 1.5		
2170 831	UNITRONIC BUS AS-I (TPE) UL/CSA	TPE	black	Auxiliary energy transmission 24 V DC	2 x 1.5		

No cutting charge for standard stock units (100, 500, 1000 m).
Please state your desired design (e.g. 1 x 500 m drum or 5 x 100 coils).
Coils < 30 kg, beyond automatically drums.