

UNITRONIC® BUS ASI

For Actuator Sensor Interface (AS-i) bus systems; stationary & flexible applications; 140 Ω

LAPP KABEL STUTTGART UNITRONIC® BUS ASI

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UNITRONIC® BUS ASI is a geometrically-coded, 2-conductor flat cable designed for data and power transfer between simple I/O devices on the sensor/actuator level. The cable is available with 3 different jackets: PVC, rubber, or TPE. The voltage drop on the long distance version is smaller due to larger conductor cross-sections.

Recommended applications

Data and power transmission between sensors, actuators, slaves, repeaters and master; TPE version suitable for wet areas and cooling lubricants

Cable attributes page 648

See attribute list by part number on page 166

Technical data

Minimum bend radius:

- for stationary use: 12 mm
- for flexible use:
 - PVC & rubber: 24 mm
 - TPE: 16 mm

Temperature range:

- PVC:
 - during use: -30°C to +90°C
 - during installation: -20°C to +90°C
- rubber & TPE:
 - during use: -40°C to +85°C
 - during installation: -30°C to +85°C

Peak voltage:

- yellow & black: 300V (not for power applications)
- red: 300V

Test voltage:

2000V



Characteristic impedance:

70 - 140 Ω (@ 167 KHz)



Nominal capacitance:

24 pF/ft



Color code:

blue & brown



Approvals:

UL: CMG (PVC jacket)
 CL2 (PVC jacket)
 AWM 2095 (PVC jacket)
 Canada: c(UL) CMG (PVC jacket)
 Additional: ASI
 CE & RoHS

Construction

Conductors: stranded tinned copper

Insulation: PVC, rubber, or TPE

Jacket: PVC, EPDM (rubber), or TPE

Application advantage

- Data and power transmission in one cable
- Quick connections to ASi-module due to piercing technology
- Protection against polarity reversal
- UNITRONIC® BUS ASI LD (Long Distance) allows even longer cable runs; more devices or devices with higher power demand can be connected to the network.

Approvals



Complete the installation



SKINTOP® strain relief page 492



SKINTOP® DIX-ASI page 547

Part number	Jacket construction		Conductor description	Approvals	Application	Copper weight lbs/mft	Approx. weight lbs/mft
	material	color					
2170842	PVC	yellow	2 x 16 AWG	UL/CSA CMG	data & power transmission	19	47
2170843	PVC	black	2 x 16 AWG	UL/CSA CMG	transmission of 30V DC auxiliary power	19	47
2170228	EPDM rubber	yellow	2 x 16 AWG	—	data & power transmission	19	57
2170229	EPDM rubber	black	2 x 16 AWG	—	transmission of 30V DC auxiliary power	19	57
2170371	EPDM rubber	yellow	2 x 14 AWG	—	long distance data & power transmission	32	57
2170372	EPDM rubber	black	2 x 14 AWG	—	long distance transmission of 30V DC auxiliary power	32	57
2170230	TPE	yellow	2 x 16 AWG	—	data & power transmission	19	43
2170231	TPE	black	2 x 16 AWG	—	transmission of 30V DC auxiliary power	19	43
2170232	TPE	red	2 x 16 AWG	—	transmission of 230V AC auxiliary power	19	43

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.