UNITRONIC[®]

Bus cable & connectors

UNITRONIC® BUS ASi

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

LAPP KABEL STUTTGART UNITRONIC® BUS ASI

LAPP KABEL STUTTGART UNITRONIC® BUS ASI

LAPP KABEL STUTTGART UNITRONIC® BUS ASI

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

page 648

300V (not for power applications)

300V

See attribute list by part number on page 166

Technical data

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







K Minimum bend radius:		好 Test voltage:		2000V
 for stationary use: for flexible use: 	12 mm	Characteristic im	pedance:	70 - 140 Ω (@ 167 KHz)
- PVC & rubber:	24 mm	200		
- TPE:	16 mm	📥 Nominal capacita	ance:	24 pF/ft
* Temperature range:		Color code:		blue & brown
- PVC:				
- during use:	-30°C to +90°C	Approvals:	UL:	CMG (PVC jacket)
 during installation: 	-20°C to +90°C			CL2 (PVC jacket)
- rubber & TPE:				AWM 2095 (PVC jacket)
- during use:	-40°C to +85°C		Canada:	c(UL) CMG (PVC jacket)
- during installation:	-30°C to +85°C		Additional:	ASi
-				CE & RoHS
7 Peak voltage:				

Part number	Jacket const material	r uction color	Conductor description	Approvals	Application	Copper weight lbs/mft	Approx. weight lbs/mft
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



- yellow & black:

- red:

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.