UNITRONIC® BUS ASi

For Actuator Sensor Interface (ASi) Bus Systems; Stationary & Flexible Applications; 140 Ω

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

Construction

Conductors: Stranded tinned copper

Insulation: PVC, rubber, or TPE

Jacket: PVC, EPDM (rubber), or TPE

Application Advantage

- Data and power transmission in 1 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

Cable Attributes

See attribute list by part number on page 159

OIL	FLAME	MOTION	MECHANICAL

Similar Cables

- UNITRONIC® BUS ASi FD Continuous Flex Cable

Complete the Installation

SKINTOP® Strain Relief: page 502

SKINTOP® DIX-ASi: page 193

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
- Other materials:
  - 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 (2170842 & 2170843)
CL2 (2170842 & 2170843)
AWM 2095 (2170842 & 2170843)
Canada: c(UL) CMG (2170842 & 2170843)
Additional: ASi
RoHS

Part Number	Approvals	Conductor Description	Jacket Color	Application	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)
PVC Jacket						
2170842	UL/CSA CMG	2 x 16 AWG	Yellow	Data & power transmission	19	47
2170843	UL/CSA CMG	2 x 16 AWG	Black	Transmission of 30V DC auxiliary power	19	47
EPDM Rubber Jacket						
2170228	–	2 x 16 AWG	Yellow	Data & power transmission	19	57
2170229	–	2 x 16 AWG	Black	Transmission of 30V DC auxiliary power	19	57
2170371	–	2 x 14 AWG	Yellow	Long distance, data & power transmission	32	57
2170372	–	2 x 14 AWG	Black	Long distance, transmission of 30V DC auxiliary power	32	57
TPE Jacket						
2170230	–	2 x 16 AWG	Yellow	Data & power transmission	19	43
2170231	–	2 x 16 AWG	Black	Transmission of 30V DC auxiliary power	19	43
2170232	–	2 x 16 AWG	Red	Transmission of 230V AC auxiliary power	19	43

Photographs are not to scale and are not true representations of the products in question.
For current information go to our website. If not otherwise specified, all values relating to the product are nominal values.