

UNITRONIC® Bus Cable Attributes

Bus System	Part Number	Cable Attributes, see page 659				Page
		Oil Resistance	Flame Resistance	Motion Type	Mechanical Properties	
DeviceNet™	4001, 4002	OR-01	FR-02	FL-02	MP-01	162
	6001, 6002	OR-01	FR-03	CF-02	MP-01	163
	2170342, 2170343	OR-02	FR-03	CF-02	MP-01	164
	2170340, 2170341	OR-00	FR-03	CF-02	MP-01	164
	2170344, 2170345	OR-04	FR-02	CF-02	MP-05	165
	2170346, 2170347	OR-02	FR-03	CF-02	MP-01	165
PROFIBUS	2170220	OR-00	FR-01	FL-01	MP-01	168
	2170219	OR-00	FR-02	FL-01	MP-01	168
	2170824	OR-00	FR-02	FL-02	MP-01	168
	2170820	OR-00	FR-03	FL-01	MP-01	168
	2170853	OR-04	FR-03	FL-01	MP-05	168
	2170222	OR-04	FR-01	CF-02	MP-05	169
	2170822, 2170322	OR-04	FR-02	CF-02	MP-05	169
	2170875	OR-02	FR-03	CF-02	MP-01	170
	2170332	OR-04	FR-02	FL-02 (Torsion $\pm 180^\circ$ /m)	MP-05	171
	2170331	OR-02	FR-03	FL-02 (Festoon bending: 70 mm min. bending radius)	MP-01	172
CAN Bus	2170260 to 2170270	OR-00	FR-02	FL-02	MP-01	184
	2170272 to 2170279	OR-04	FR-02	CF-02	MP-05	185
RS485/RS422	2170203, 2170803	OR-00	FR-01	FL-02	MP-01	190
	2170204, 2170205	OR-00	FR-01	FL-02	MP-01	190
	2170213	OR-04	FR-01	CF-02	MP-05	190
	2170813	OR-04	FR-02	CF-02	MP-05	190
	2170214	OR-04	FR-01	CF-02	MP-05	190
	2170814	OR-04	FR-02	CF-02	MP-05	190
	2170215	OR-04	FR-01	CF-02	MP-05	190
	2170815	OR-04	FR-02	CF-02	MP-05	190
AS-Interface	2170842, 2170843	OR-02	FR-03	CF-02	MP-01	191
	2170228, 2170229	OR-00	FR-01	FL-02	MP-01	191
	2170371, 2170372	OR-00	FR-00	FL-02	MP-01	191
	2170230, 2170231, 2170232	OR-04	FR-00	FL-02	MP-02	191
	2170357, 2170358, 2170317, 2170318	OR-04	FR-01	CF-02	MP-05	192
	2170830, 2170831	OR-02	FR-02	CF-02	MP-02	192
Data Highway	3649FD	OR-01	FR-02	CF-01	MP-01	194
Interbus	2170206	OR-00	FR-01	FL-02	MP-01	195
	2170208	OR-04	FR-01	FL-02	MP-05	195
	2170209	OR-00	FR-02	FL-02	MP-01	195
	2170216, 2170218	OR-04	FR-01	CF-02	MP-05	196
	2170818	OR-04	FR-02	CF-02	MP-05	196
Genius™	911264	OR-04	FR-02	CF-01	MP-05	197
CC-Link	2170360	OR-00	FR-03	FL-02	MP-01	198
	2170370	OR-04	FR-02	CF-02	MP-05	199
FOUNDATION Fieldbus	2170350	OR-02	FR-03	FL-02	MP-01	200
	2170351, 2170353	OR-02	FR-03	FL-00	MP-01	200
	2170352	OR-02	FR-03	FL-02	MP-01	200
Sensor & Actuator Wiring	7038864 to 7038887	OR-04	FR-01	CF-02	MP-05	201

UNITRONIC® BUS ASi

For Actuator Sensor Interface (ASi) 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

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



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
- 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: cUL CMG (PVC jacket)
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.