

UNITRONIC® BUS CAN

For CAN bus systems; stationary applications; 120 Ω

LAPP KABEL STUTTGART UNITRONIC® BUS CAN



UNITRONIC® BUS CAN is designed to the CAN open and ISO11898 standard. It is well suited for high-speed motion control and feedback loop applications, providing high reliability and efficient use of network bandwidth.

Construction

- Conductors:** 7-wire strands of bare copper
- Insulation:** polyethylene
- Shielding:** foil wrap; tinned copper braid shield
- Jacket:** PVC; violet • reinforced jacket: PE; black

Recommended applications

Motion control systems; assembly, welding, and material handling machines; single cable wiring of multi-input sensor blocks; smart sensors; pneumatic valves; barcode readers; drives and operator interfaces

Rate table

Distance (m)	AWG	Max. rate
0 - 40	22	1 Mbps @ 40 m
40 - 300	22, 20	50 kbps @ 100 m
300 - 600	20	100 kbps @ 500 m
600 - 1000	19	50 kbps @ 1 km

Application advantage

- Signal integrity in stationary motion applications
- Flame retardant
- Oil-resistant jacket
- Flexible for ease of routing

Approvals



Cable attributes		page 648	
OIL	OR-00	FLAME	FR-02
MOTION	FL-02	MECH.	MP-01

Complete the installation	
SKINTOP® MS-SC page 522	EPIC® DATA connectors page 186

Technical data

Minimum bend radius: 10 x cable diameter	Nominal capacitance: 12 pF/ft
Temperature range: -30°C to +80°C	Color code: DIN 47100: chart 8, page 682 - pair 1: white & brown - pair 2: green & yellow
Nominal voltage: 250V (not for power applications)	Approvals: UL: CMX Canada: c(UL) CMX *not for 2170500
Characteristic impedance: 120 Ω ± 15Ω	

Part Number	Conductor description	Nominal outer diameter		Copper weight	Approx. weight	SKINTOP® MS-SC
		in	mm	lbs/mft	lbs/mft	PG thread
2170260	24 AWG/1pr	0.224	5.7	11	28	53112220
2170261	24 AWG/2pr	0.299	7.6	23	46	53112220
2170263	22 AWG/1pr	0.268	6.8	17	37	53112220
2170264	22 AWG/2pr	0.335	8.5	31	59	53112220
2170266	20 AWG/1pr	0.296	7.5	28	60	53112220

Part Number	Conductor description	Nominal outer diameter		Copper weight	Approx. weight	SKINTOP® MS-SC
		in	mm	lbs/mft	lbs/mft	PG thread
2170267	20 AWG/2pr	0.382	9.7	40	71	53112230
2170269	19 AWG/1pr	0.343	8.7	35	73	53112220
2170270	19 AWG/2pr	0.453	11.5	54	95	53112230
Reinforced black jacket						
2170500	20 AWG/2pr	0.354	9.0	28	61	53112220

Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section. 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.