

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.

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

Construction

Conductors: 7-wire strands of bare copper

Insulation: Polyethylene

Shielding: Foil wrap; tinned copper braid shield

Jacket: PVC; violet

Application Advantage

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

Approvals



Cable Attributes		page 640	
OIL	OR-00	FLAME	FR-02
MOTION	FL-02	MECH.	MP-01

Complete the Installation	
SKINTOP® MS-SC page 516	EPIC® DATA Connectors page 184

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 674 - Pair 1: White & brown - Pair 2: Green & yellow
Nominal Voltage: 250V (not for power applications)	Approvals: UL: CMX Canada: c(UL) CMX
Characteristic Impedance: 120 Ω ± 15%	

Part Number	Conductor Description (AWG/Pair)	Nominal Outer Diameter		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
		(in)	(mm)			
Stationary						
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
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

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. For current information go to our website.