UNITRONIC® BUS CAN

For CAN bus systems; stationary applications; 120 Ω

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

Application advantage

- Signal integrity in stationary motion applications
- Flame retardant
- Oil-resistant jacket
- Flexible for ease of routing
- Supports SAE J1939 physical layer in accordance with ISO 11898

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

Approvals

c UL us

RoHS

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

Part Number	Conductor description	Nominal outer diameter in	Nominal outer diameter mm	Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC 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 in	Nominal outer diameter mm	Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC 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 (outdoor/ direct burial)						
2170500	20 AWG/4c	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.