

UNITRONIC® BUS CAN FD

For CAN Bus Systems; Continuous Flex Applications; 120 Ω

LAPP KABEL STUÏTGART UNITRONIC® BUS CAN FD



UNITRONIC® BUS CAN FD 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 (ISO 11898 Recommendations)

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

Construction: 7-wire strands of bare copper

Insulation: Polyethylene

Shielding: Tinned copper braid shield

Jacket: Halogen-free polyurethane; violet

Application Advantage

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

Approvals



Cable Attributes		page 640	
OIL	OR-04	FLAME	FR-02
MOTION	CF-02	MECH.	MP-05

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

Technical Data

Minimum Bend Radius: 15 x cable diameter	Nominal Capacitance: 18 pF/ft
Temperature Range: - for installation: -40°C to +80°C - for continuous flexing: -30°C to +70°C	Color Code: - 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)			
Continuous Flex						
2170272	24 AWG/1pr	0.252	6.4	16	27	53112210
2170273	24 AWG/2pr	0.331	8.4	22	44	53112220
2170275	22 AWG/1pr	0.268	6.8	22	40	53112210
2170276	22 AWG/2pr	0.378	9.6	35	59	53112230
2170278	20 AWG/1pr	0.315	8.0	28	50	53112220
2170279	20 AWG/2pr	0.426	10.8	40	67	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.