

UNITRONIC® BUS CAN FD P

For CAN bus systems; continuous flex applications; 120 Ω

LAPP KABEL STUTTGART UNITRONIC® BUS CAN FD P



UNITRONIC® BUS CAN FD P 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

Cable attributes

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OIL	OR-04	FLAME	FR-02
MOTION	CF-02*	MECH.	MP-05

ConstructionConductors: finely stranded bare copperInsulation: polyethyleneShielding: tinned copper braid shieldJacket: 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

Complete the installation



EPIC® DATA
connectors
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Technical data

Minimum bend radius: 15 x cable diameter

Temperature range:
 - for installation: -40°C to +80°C
 - for continuous flexing: -30°C to +70°C

Nominal voltage: 250V (not for power applications)

Characteristic impedance: 120 Ω ± 15Ω

Nominal capacitance: 18 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
 Additional:

*UL Verified ID A522492: Continuous Flex Test Method Verified

Part Nnber	Conductor description	Nominal outer diameter		Copper weight	Approx. weight	SKINTOP® MS-SC PG thread
		in	mm	lbs/mft	lbs/mft	
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

Part Nnber	Conductor description	Nominal outer diameter		Copper weight	Approx. weight	SKINTOP® MS-SC PG thread
		in	mm	lbs/mft	lbs/mft	
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