



Bus cable & connectors CAN bus

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.

Construction

Conductors: finely stranded bare copper

Insulation: polyethylene

Shielding: tinned copper braid shield Jacket: halogen-free polyurethane; violet

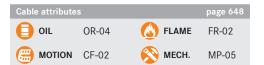
Recommended applications

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	1000 19 50 kbps @1 km	

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40 - 300	300 22, 20 50 kbps @ 100 i			
300 - 600	20	100 kbps @ 500 m		
600 - 1000	19	50 kbps @1 km		



Application advantage

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

Approvals









- pair 2:

SKINTOP® MS-SC page 522



EPIC® DATA connectors page 186

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: DIN 47100: chart 8, page 682 - pair 1: white & brown

7 Nominal voltage:

250V (not for power applications) Approvals: UL: CMX

green & yellow

 $|_{\mathbf{z}_{\infty}}|$ Characteristic impedance:

 $120 \Omega \pm 15\Omega$

Part Conductor Nnmber description	Nominal outer diameter		Copper weight	Approx. weight	SKINTOP® MS-SC
	in	mm	lbs/mft	lbs/mft	PG thread
24 AWG/1pr	0.252	6.4	16	27	53112210
24 AWG/2pr	0.331	8.4	22	44	53112220
22 AWG/1pr	0.268	6.8	22	40	53112210
	description 24 AWG/1pr 24 AWG/2pr	Conductor description outer d in 24 AWG/1pr 0.252 24 AWG/2pr 0.331	Conductor description outer diameter in mm 24 AWG/1pr 0.252 6.4 24 AWG/2pr 0.331 8.4	Conductor description outer diameter in mm weight lbs/mft 24 AWG/1pr 0.252 6.4 16 24 AWG/2pr 0.331 8.4 22	Conductor description outer diameter in weight lbs/mft weight lbs/mft 24 AWG/1pr 0.252 6.4 16 27 24 AWG/2pr 0.331 8.4 22 44

Part Nnmber	Conductor description		ninal iameter mm	Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
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

Canada: c(UL) CMX



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