

# UNITRONIC® BUS Cables

Data Transmission Cables for the Manufacturing Process Level



UNITRONIC® BUS cables connect digital field devices at the sensor/actuator level to higher level components. Special materials and manufacturing techniques of Lapp provide excellent data transmission characteristics

and protection from EMI emissions. Lapp offers flexible, flexing, and continuous flex versions. Available with UL/CSA Approval.

## UNITRONIC® BUS Cables Construction: Flexible Versions

Stranded bare copper conductors; electronic grade flexible polyethylene insulation; paired conductors; tinned copper shield; flame retardant violet PVC jacket.

LAPP KABEL STUÏGART UNITRONIC® BUS LD



### Cable Attributes



## UNITRONIC® BUS Cables Construction: Continuous Flexing Versions

Finely stranded bare copper conductors; electronic grade flexible polyethylene insulation; paired conductors; non-wicking tape wrap; tinned copper shield; flame retardant violet polyurethane jacket.

LAPP KABEL STUÏGART UNITRONIC® BUS FD P LD



### Cable Attributes



## Technical Data:

Minimum Bending Radius for stationary use: 8 x cable diameter for continuous flexing: 15 x cable diameter	Nominal Capacitance: Cond/ Cond: 18pF/ft Cond/ Shield: 32pf/ft
Temperature Range: for stationary use: -40°C to +75°C for continuous flexing: -30°C to +70°C	Impedance: 100Ω
Nominal Voltage: 250V	Transmission rate: 1 Mbit/sec.
Test Voltage: 1500V	Color Code: DIN 47100, Chart 7, Page 674
	Approvals: UL-Type CMX CSA-Type CMX

Part Number	Description	Conductor Description	Nominal Outer Diameter		Approx. Weight	
			inches	mm	lbs/mft	kg/km
<b>Flexible</b>						
2170203	UNITRONIC® BUS LD	24/ 1pr	.225	5.7	25	37
2170204	UNITRONIC® BUS LD	24/ 2pr	.280	7.1	30	45
2170205	UNITRONIC® BUS LD	24/ 3pr	.283	7.2	48	72
2170803	UNITRONIC® BUS LD UL/CSA	24/ 1pr	.232	5.9	26	39
2170804	UNITRONIC® BUS LD UL/CSA	24/ 2pr	.287	7.3	32	48
2170805	UNITRONIC® BUS LD UL/CSA	24/ 3pr	.291	7.4	51	76
<b>Continuous Flex</b>						
2170213	UNITRONIC® FD P LD	24/ 1pr	.248	6.3	26	39
2170214	UNITRONIC® FD P LD	24/ 2pr	.331	8.4	44	65
2170215	UNITRONIC® FD P LD	24/ 3pr	.343	8.7	52	77
2170813	UNITRONIC® FD P LD UL/CSA	24/ 1pr	.256	6.5	26	39
2170814	UNITRONIC® FD P LD UL/CSA	24/ 2pr	.339	8.6	44	65
2170815	UNITRONIC® FD P LD UL/CSA	24/ 3pr	.343	8.7	52	77

### Key to description terms:

LD = Low capacitance      P = Polyurethane outer jacket