UNITRONIC® BUS DeviceNet™ BUS CABLES

THICK & THIN
120 Ohm Bus Cable for Static Applications

UNITRONIC® BUS- DeviceNet™ Cables are designed to support the robust demands of today's high speed industrial control environments. DeviceNet™ is a versatile, general purpose Fieldbus designed to satisfy 80% of the most common machine and cell-level wiring requirements. Devices can be powered from the network so wiring is minimized.
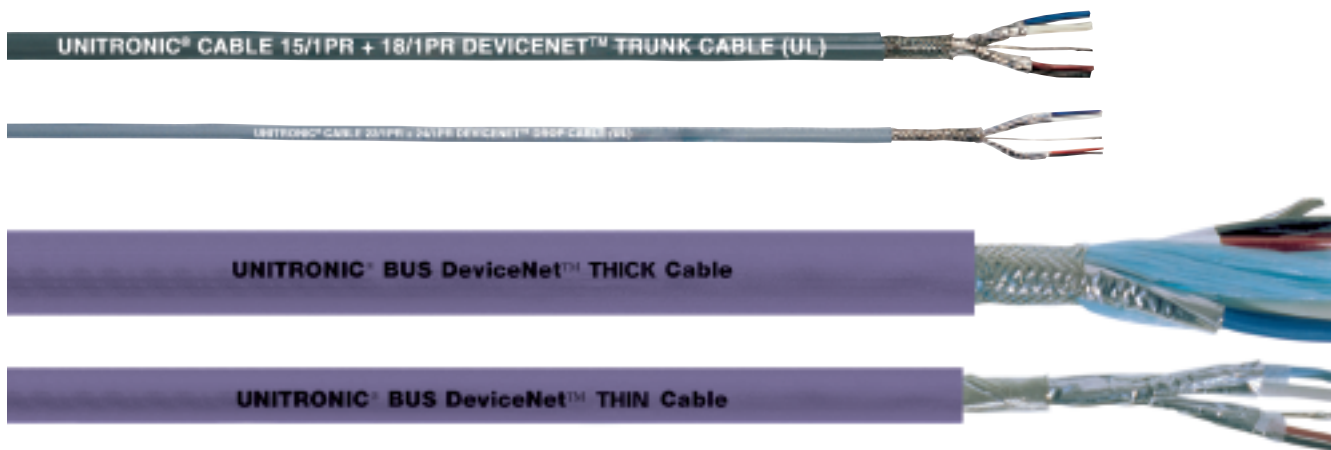
Recommended Applications:
Assembly, welding and material handling machines. Single-cable wiring of Multi-input sensor blocks, Smart sensors, pneumatic valves, Barcode readers, Drives and Operator interfaces.

Application Advantage:
• Superior shielding for EMC protection
• Flexible construction for ease of installation
• Halogen-free version for LSOH requirements
• UV and oil resistant PVC jacket

UNITRONIC® DeviceNet™ BUS Cables Construction:
Stranded tinned copper conductors; data conductors are insulated with foam polyethylene; power conductors are insulated with PVC; both pairs are tri-laminated foil shield (100% Coverage); plus have an overall foil wrap and braid (65% coverage); both pairs utilize a common drain wire and have a tinned copper braid; oil resistant PVC or halogen-free outer jacket.

Cable Attributes, See Page 653		Availability:	Complete the installation with:	
Oil Resistance: OR-01	Flame Resistance: FR-03	Standard put-ups are 164ft, 328ft, 1640ft, and 3280ft. Bulk reels can be cut to length.	SKINTOP® Strain Relief: Page 486	EPIC® Connectors: Page 251
Motion Type: FL-02	Mechanical Properties: MP-01		OLFLEX® Tubing: Page 546	Cable Assemblies Page 627

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Lapp is a member of the Open DeviceNet Vendor Association.

Technical Data:

Minimum Bending Radius:	10 x cable diameter	Characteristic Impedance:	120 Ohm
Temperature Range:	-20°C to +75°C	Nominal Capacitance:	12 pf/ft
Nominal Voltage:	300V	Color Code:	Power pair: Red & Black Data pair: Blue & White
Test Voltage:	2000V		

Approvals: UL: CMG   CSA: CMG

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Rate Table:

Communication Rate	Maximum Length- Main Cable				Maximum Length- Drop Cable			
	THICK		THIN		THICK		THIN	
	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
125 Kbps	1640	500	328	100	512	156	20	6
250 Kbps	820	250	328	100	256	78	20	6
500 Kbps	328	100	328	100	128	39	20	6

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Part Number	Type	Conductor Description	Nominal Outer Diameter		Copper Weight lbs/mft	Jacket Color	Approx. Weight	
			inches	mm			lbs/mft	kg/km
PVC Jacketed- UL/CSA (CMG)								
4001	Trunk	18/ 1pr + 15/ 1pr	.437	11.1	59	Gray	140	209
4002	Drop	24/ 1pr + 22/ 1pr	.260	6.6	22	Gray	43	64
2170342*	Trunk	18/ 1pr + 15/ 1pr	.480	12.2	59	Violet	124	184
2170343*	Drop	24/ 1pr + 22/ 1pr	.272	6.9	22	Violet	46	68
Halogen-Free- UL/CSA (CMG)								
2170340	Trunk	18/ 1pr + 15/ 1pr	.492	12.5	59	Violet	124	184
2170341	Drop	24/ 1pr + 22/ 1pr	.283	7.2	22	Violet	46	68

* PLTC Approved

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