

UNITRONIC® BUS DeviceNet™ BUS FD CABLES

THICK & THIN

120 Ohm Bus Cable for Continuous Flex 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:

- Tested to over 5 million flex life cycles
- Superior shielding for EMC protection
- Flexible for ease of installation
- Highly abrasion resistant PUR jacket option
- UV and oil resistant PVC or PUR 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 individually shielded using tri-laminated foil (100% coverage), plus have an overall foil and braid wrap (65% coverage); both pairs utilize a common drain wire and have a tinned copper braid; oil resistant PVC or PUR outer jacket.



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

Minimum Bending Radius:	10 x cable diameter	Characteristic Impedance:	120 Ohm
Temperature Range:	PVC: -10°C to +80°C PUR: -40°C to +80°C	Nominal Capacitance:	12 pf/ft
Nominal Voltage:	300V	Color Code:	Power pair: Red & Black Data pair: Blue & White
Test Voltage:	2000V	Approvals:	- PVC: UL: CMG CSA: CMG
		- PUR:	UL: CMX CSA: CMX

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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)								
6001	Trunk	18/ 1pr + 14/ 1pr	.468	11.9	59	Gray	140	209
6002	Drop	24/ 1pr + 22/ 1pr	.283	7.2	22	Gray	43	64
2170346*	Trunk	18/ 1pr + 15/ 1pr	.480	12.2	59	Violet	131	195
2170347*	Drop	24/ 1pr + 22/ 1pr	.272	6.9	22	Violet	47	70
PUR UL/CSA (CMX)								
2170344	Trunk	18/ 1pr + 15/ 1pr	.480	12.2	56	Violet	124	184
2170345	Drop	24/ 1pr + 22/ 1pr	.272	6.9	22	Violet	46	68

* PLTC Approved

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