



AUTOMOTIVE

Inventing *the Future* of Wire and Cable

EXRAD[®] CAN-bus

Champlain Cable combines the expertise of data communications and irradiated cross-linked materials technology to create EXRAD CAN-bus cables. EXRAD CAN-bus cables are used as the backbone of the J1939 physical layer. Selected shielded constructions are FLEX-RAY compatible @10 MHz and have been tested to meet 100 MHz. requirements. Our CAN-bus cables are designed with materials that meet or exceed TXL requirements and the impedance, return loss and attenuation requirements of the network system. Our shielding reduces the harmful effect of EMI and RFI interference. The combination of controlled impedance and shielding can reduce or eliminate data transfer issues. Our Cell-RAD dielectric primaries are designed and sized to meet your termination needs.

Champlain Cable Corporation offers many standard and custom designed cables that are road tested and have proven reliability. These cables are designed to withstand temperature extremes and physical abuse.

Benefits and Features

Shielded / Unshielded Designs
10 MHz Flex Ray Compliant Designs
Flexible Jacket Designs, Fluid Resistant
-70°C to 150°C Temperature Ranges
RoHS Compliant

Applications

Including but not limited to:
Commercial Tractors Trailers
Agricultural Equipment Recreational Vehicles
Water Craft Busses

Part Number	Conductor	Impedance Ohms	Cap. pF/ft	Nom. Velocity	Conductor Diameter		Dielectric		Shield	Jacket	Filler	Overall Diameter	
					in	mm	In.	mm				in	mm
23-00013 1939/11	.5mm ² (19/.18) TC	120+/- 12	12	58%	.035	.89	0.94	2.39	Yes	Double 150A	Yes	.325	8.26
23-00028 1939/11	.5mm ² (19/.18) BC	120+/- 12	12	58%	.035	.89	.094	2.39	Yes	Double 150A	No	.325	8.26
23-00036 1939/11	.5mm ² (19/.18) BC	120+/- 12	12	64%	.045	1.14	.094	2.39	Yes	Double FX	No	.325	8.26
23-00037 1939/11	18 AWG (19/.23) BC	120 +/- 12	12	64%	.045	1.14	.126	3.20	Yes	Double FX	No	.398	10.11
23-00033 Shielded CAN-bus	.5mm ² (19/.18) BC	120+/- 12	11	72%	.035	.89	.106	2.69	Yes	Single 125	Yes	.300	7.62
23-00065 Shielded CAN-bus	18 AWG (19/.23) BC	120 +/- 12	11	72%	.045	1.14	.137	3.48	Yes	Single 125	Yes	.352	8.95
23-00072 Shielded CAN-bus	.5 mm ² (19/.18) BC	120 +/- 12	10	80%	.035	.89	.092	2.34	Yes	Single 150 FX	Yes	.290	7.37
23-00073 Shielded CAN-bus	.8mm ² (19/.23) BC	120 +/- 12	11	75%	.042	1.07	.125	3.17	Yes	Single 150 FX	Yes	.380	9.65
23-00076 1939/11	.5 mm ² (19/.18) BC	120 +/- 12	10	80%	.035	.89	.106	2.69	Yes	Single 125	Yes	.291	7.39
15-07271 1939/15	20 AWG (7/28) BC	120 +/- 12	11	64%	.038	.97	.082	2.08	No	Single 125	No	.204	5.18
15-07445 1939/15	20 AWG (7/28) BC	120 +/- 2	11	64%	.038	.97	.082	2.08	No	Single FX	No	.224	5.64
15-07508 1939/15	20 AWG (19/32) BC	120 +/- 12	11	64%	.038	.97	.082	2.08	No	Single FX	No	.224	5.64
23-00074 1939/15	20 AWG (7/28) BC	120 +/- 12	12	66%	.038	.97	.072	1.83	No	Single 125	No	.208	5.28
23-00070 1939/15	0.8mm ² (19/.23) BC	120 +/- 12	11	64%	.042	1.07	.084	2.13	No	Single 125	No	.204	5.18
15-07272 1939/15	18 AWG (19/.23) BC	120 +/- 12	11	64%	.045	1.14	.092	2.34	No	Single FX	No	.226	5.74
15-07353 1939/15	18 AWG (19/.23) BC	120 +/- 12	11	64%	.045	1.14	.092	2.34	No	Single 125	No	.217	5.51

www.champcable.com



Champlain Cable Corporation
175 Hercules Drive
Colchester, Vermont 05446

P 800.451.5162
F 802.654.4224
sales@champcable.com