REV.	DESCRIPTION	DATE
12	Removed reference to Radox.	4/10/2008

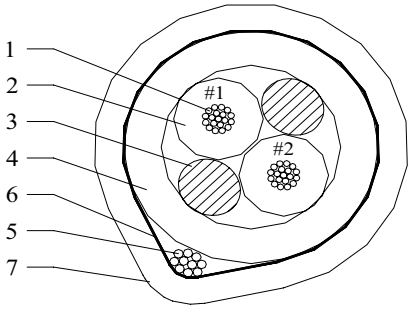
Gereral Properties

Controlled impedance, meets SAE J-1939/11, excellent abrasion, temperature and fluid resistance. Irradiation Cross-linked.

Application

Including but not limited to: Sensors, engine diagnostics, multiplexing network protocol.

General Composition of Cable



Color Code

1	Green
2	Yellow
Jacket	Black

Construction Data:

	Description		Dimensions (Nom.) mm	inches
1.	Conductor:	0.5mm2 19/.18mm Tin Plated Copper	0.89	0.035
2.	Insulation:	RADXL 150A: wall thickness: 30 mil [0.41 mm]	2.41	0.095
3.	Filler:	As required for roundness	1.65	0.065
	Cabling:	(2) Primaries & (2) Fillers Lay Length: 2.0" [50.8 mm] nom.	4.83	0.190
4.	1st Jacket:	RADXL 150A: wall thickness: 40 mil [1.02 mm]	6.85	0.270
5.	Drain:	20 AWG 10/30 Tinned Copper	0.94	0.037
6.	Shield:	Aluminum/Mylar, .04mm (.0015"), 20 Overlap	7.17	0.282
7.	2nd Jacket:	RADXL 150A: wall thickness: 30 mil [1.02 mm]	8.50 max.	0.335 max.
	Print Legend:	Champlain RADXL SAE J-1939/11-20 Mulptiplex		

Technical Data

Temperature Range:	-40 ºC to +150 ºC
Designed to:	SAE J-1939/11
Spark Test:	1.5 kVAC – 100% Test
Dry Dielectric:	2.5 kVDC / 2 Seconds Conductor to Conductor
	2.5 kVDC / 2 Seconds Conductor to Shield
Impedance:	120 +/- 12 Ω @ 1 MHz between the signal wires
	with the shield grounded using 120-Ohm baluns.
Specific Capacitance:	Conductor to Conductor – 47 pf/m Nom.
	Conductor to Shield – 69 pf/m Nom.

CHAMPLAIN CABLE
175 HERCULES DRIVE
COLCHESTER, VT 05446
802-654-4200

TITLE

SAE J-1939/11 Databus Cable
0.5mm2 19/0.18mm Shielded

UNLESS OTHERWISE SPECIFIED, DIMENSIONS AND TOLERANCES ARE IN INCHES

DO NOT SCALE THIS DRAWING

DRN.	DATE
Scott Hood	6/18/2002
CKD.	DATE

SIZE	PART NUMBER	DOCUMENT NUMBER
A	23-00013	11841