

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

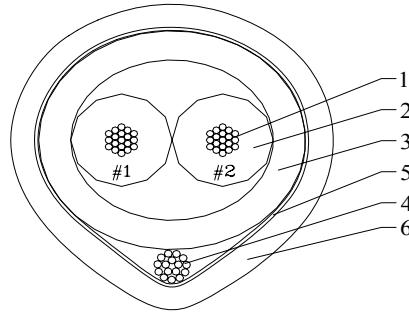
General Properties

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.)	
	inches	mm
1. Conductor:	18 19/.00992 Bare Copper Copper	0.045 1.14
2. Insulation:	RADXL 150A: wall thickness: 41 mil [1.02 mm]	0.126 3.20
Cabling:	(2) Primaries Twisted Lay Length: 2.5" [63.5 mm] nom.	0.252 6.40
3. 1 st Jacket:	RADXL 150FX: wall thickness: 38 mil [1.02 mm]	0.328 8.33
4. Drain:	18 AWG 16/30 Tinned Copper	0.046 1.17
5. Shield:	Aluminum/Mylar, .0015" [.04mm], 20% overlap	0.338 8.58
6. 2 nd Jacket:	RADXL 150FX: wall thickness: 30 mil [0.76 mm]	0.398 10.12
Print Legend:	Champlain RADXL CANBUS SAE J-1939/11-18 Multiplex XXXXX	

Technical Data

Temperature Range:	-40 °C to +150 °C
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 18 AWG 19/.0092" Shielded	
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**UNLESS OTHERWISE SPECIFIED,
DIMENSIONS AND TOLERANCES
ARE IN INCHES**

DO NOT SCALE THIS DRAWING

DRN.	Scott Hood	DATE	11/21/2001
CKD.		DATE	
SIZE	PART NUMBER	DOCUMENT NUMBER	
A	23-00037-001	11995	

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