

REV.	DESCRIPTION	DATE
0	Initial release.	07/27/2006

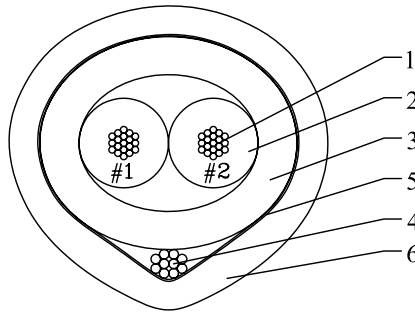
**General Properties:**

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

**Application:**

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

**General Composition of Cable:**



**Color Code**


#1	GR
#2	YL

**Construction Data:**

	Description	Dimensions
1. Conductor:	0.50mm <sup>2</sup> 19/0.18mm Bare Copper	0.89 mm (.035") nom.
2. Insulation:	RADXL 150UT, 0.76mm (0.0295") wall nom.	2.40 mm (.094") nom.
Cabling:	2 Primaries Twisted	4.26 mm (.170") nom.
3. 1 <sup>st</sup> Jacket:	RADXL 150FX, 1.02mm (0.040") wall nom.	6.85 mm (.270") nom.
4. Drain:	20 AWG 10/30 Tinned Copper, spiral wrapped around 1 <sup>st</sup> jacket	0.94 mm (.037") nom.
5. Shield:	Aluminum/Mylar, 0.04mm (0.0015"), 20% Overlap, Foil in	6.97 mm (.274") nom.
6. 2 <sup>nd</sup> Jacket:	RADXL 150FX, 0.64mm (0.025") wall reference	8.50 mm (.335") max.
Print Legend:	CHAMPLAIN RADXL CANBUS SAE J-1939/11-20 MULTIPLEX	

**Technical Data:**

Max. Temperature Rating:	150 °C
Min. Temperature Rating:	-40 °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.

 <p>175 HERCULES DRIVE COLCHESTER, VT 05446 802-654-4200</p>	TITLE		<b>SAE J-1939/11 Databus Cable</b> <b>0.50mm<sup>2</sup> 19/0.18mm Shielded</b>	
	DRN.		DATE	
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS AND TOLERANCES ARE IN INCHES <b>DO NOT SCALE THIS DRAWING</b>		Scott Hood 07/27/2006	
CKD.		DATE		
SIZE	PART NUMBER	DOCUMENT NUMBER		
A	23-00036-001	12968		
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