

REV.	DESCRIPTION	DATE
0	Initial Release.	3/26/2016

**General Properties** 70.0mm<sup>2</sup> 1140/.28mm BC HVFX/XLE Shielded High Voltage Cable

**Application** Hybrid or Electric Powered Vehicles

**General Composition of Cable** See Below



**Physical Data**


Description	Dimensions (Nom.)	
	inches	mm
1. Conductor:	70.0mm <sup>2</sup> 1140/.28mm bare copper	0.455 11.56
2. Insulation:	EXRAD HVFX wall thickness: 65 mil	0.585 14.86
3. Shield:	34 AWG Tinned Copper Braid, 95% coverage-Nominal	0.613 15.57
4. Jacket:	EXRAD XLE wall thickness: 75 mil	0.763 19.38
	OD Tolerance	+/- 0.015" +/- 0.38mm
Print Legend:	CHAMPLAIN CABLE 70.0mm <sup>2</sup> BC HVFX/XLE SHIELDED HIGH VOLTAGE CABLE 15347 XXXXX XXXXX = lot code	

**Electrical Data**

Conductor Resistance: 0.251 ohms/km (0.077 ohms/kft) @ 20° C nominal  
Voltage Rating: 1,000 volts maximum per SAE J1654

**General Data**

Use: High Voltage Power Cables for Electric or Hybrid Vehicles  
Temperature Range: -55° C to +150° C  
Primary Insulation: Meets Requirements of ISO 6722 Thick Wall, Class D  
Jacket Insulation: Meets Performance Requirements of ISO 6722, Section 5.13 150°C 3,000 Hours  
Min. Static Bend Radius: inches mm  
3.4 87

 175 HERCULES DRIVE COLCHESTER, VT 05446 802-654-4200	TITLE		70.0mm <sup>2</sup> 1140/.28mm BC HVFX/XLE Shielded High Voltage Cable
	UNLESS OTHERWISE SPECIFIED, DIMENSIONS AND TOLERANCES ARE IN INCHES		
DO NOT SCALE THIS DRAWING	DRN.	Michael Cienkus	DATE 3/26/2016
	CKD.	Nathan Bacon	DATE 3/28/2016
	SIZE A	PART NUMBER 15-08219-XXX	DOCUMENT NUMBER 15347
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