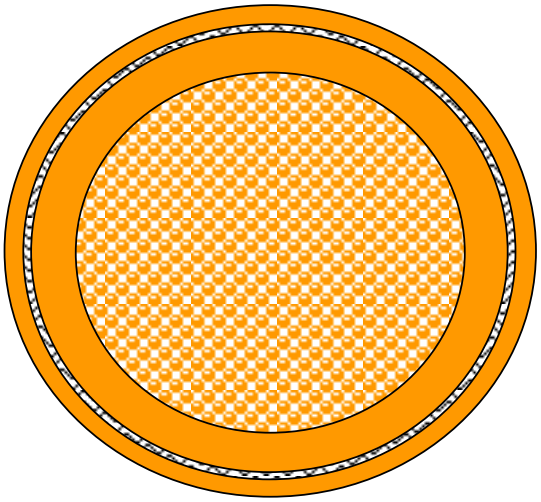
REV.	DESCRIPTION	DATE
0	Initial release.	3/13/2015

General Properties High Voltage 1/0 EXRAD HVFX/XLE Braid Shielded Cable

Application Hybrid or Electric Powered Vehicles

General Composition of Cable See Below



Color Code

Inner	Orange
Outer Jacket	Orange

Physical Data				Dimensions (Nom.)	
	Description			inches	mm
1.	Conductor:	1/0 1007/30 bare copper		0.390 +/- .015	9.91
2.	Insulation:	EXRAD HV FX wall thickness: 55	mil	0.500	12.70
3.	Shield	34 AWG tinned copper braid 95% minimum coverage		0.528	13.41
4.	Jacket	EXRAD XLE wall thickness: 47	mil	0.621	15.77
			Outside diameter tolerance	+/- 0.015	+/- 0.38mm

Electrical Data

Conductor Resistance:	0.104 ohms/kft 0.34 ohms/km @20° C nominal
Voltage Rating:	2000 volts max DC , 1500 Volts max. AC Tested to UL 758 Section 48
	1000 volts per SAE J2840

General Data

	Primary only: 1000 volts per SAE J1654
Use:	High Voltage Power Cables for Electric or Hybrid Vehicles
Temperature Range:	-40° C to +110° C
Primary Insulation:	Meets Requirements of ISO 6722 Class D 150°C
Jacket Insulation:	Meets Requirements of ISO 6722 Class D 150°C
UV Resistance:	Passes UL 720 Hour Exposure to Xenon Light
Weight:	515 pounds/kft
Minimum Static Bend Radius:	inches mm
	2.5 63

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

TITLE

1/0 BC EXRAD HVFX/XLE Shielded Cable

UNLESS OTHERWISE SPECIFIED, DIMENSIONS AND TOLERANCES ARE IN INCHES

DO NOT SCALE THIS DRAWING

DRN.	Richard Antic	DATE	3/13/2015
CKD.	N. Bacon	DATE	8/20/2015
SIZE	PART NUMBER	DOCUMENT NUMBER	
A		14999	

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