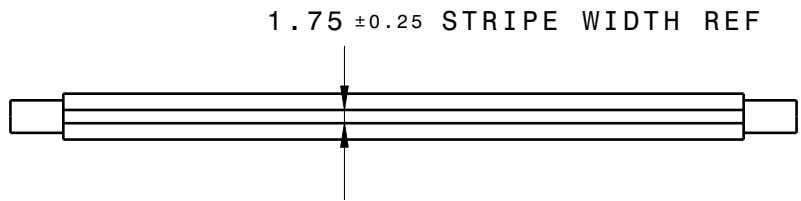
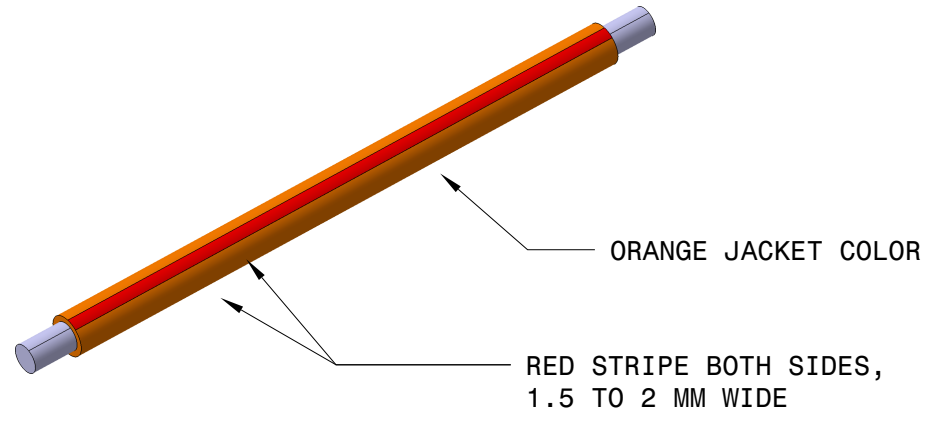


REV.	DESCRIPTION	DATE
0	Initial release.	2/18/2015
General Properties Highly Flexible, 8 AWG Tinned Copper EXTRAD HVFX 1000 Volt Cable		
Application Electric Vehicles		
Color Code		
Orange with Blk Stripe		
Orange with Red Stripe		
<p>Please Note: Due to the concentric conductor the insulation will be convoluted as conductor rope components affect cable roundness.</p>		
Physical Data		Dimensions (Nom.)
Description		inches mm
1. Conductor:	8 168/30 tinned copper	0.169 4.29
2. Insulation:	EXRAD HVFX wall thickness: 30 mil	0.229 5.82
		Tol +/- .010 +/- .025
Print		
Champlain Cable 8 AWG HVFX 1000 volts XXXXX		
XXXXX = 5-digit audit sheet number		
Electrical Data		
Conductor Resistance::	0.650 ohms/kft 2.13 ohms/km @20° C nominal	
Voltage Rating:	1000 Volts per SAE 1654	
General Data		
Use:	Electric Vehicles	
Temperature Range:	-55° C to +150° C per ISO 6722-1 3000 hours	
Primary insulation	Meets Requirements of ISO6722-1 Class D 150C	
Weight	62 lbs./kft	
Bend Radius:	inches mm	
	0.7 17	
TITLE 8 168/30 TC AWG EXTRAD HVFX		
UNLESS OTHERWISE SPECIFIED, DIMENSIONS AND TOLERANCES ARE IN INCHES		
DO NOT SCALE THIS DRAWING		
The information on this drawing is the proprietary property of Champlain Cable Corporation, and may not be used, reproduced or disclosed to others, in whole or in part, without written authorization.		PAGE 1 of 1
ETF-011 Owner: RF Business Unit Manager - Approved By: VP of Operations / 27 February 2004		



REFER TO CHAMPLAIN DRAWING FOR ALL SPECIFICATIONS EXCEPT FOR JACKET COLORING

DATE	REV	DESCRIPTION	DRN	APPD
03-MAR-15	01	INITIAL RELEASE	TSR	

REGULATORY COMPLIANCES

R1. ALL MATERIALS AND COATINGS MUST COMPLY WITH ALL APPLICABLE INTERNATIONAL ENVIRONMENTAL RELATED REGULATIONS, INCLUDING BUT NOT LIMITED TO EU DIRECTIVES WVTA, ELY, RRR, ROHS, WEEE, REACH AND BATTERY DIRECTIVE 2006/66/EC, WHICH ARE DESCRIBED IN DETAIL AT THE GADSL LIST IN ITS LATEST VERSION AT THE TIME OF USE (http://www.gadsl.org). REFER TO TESLA SPEC DOC# BMS-0000147 FOR DETAIL.

R2. THIS COMPONENT HAS BEEN DESIGNED TO COMPLY WITH A REGULATORY REQUIREMENT. CONTACT TESLA TYPE APPROVAL BEFORE UNDERTAKING DESIGN MODIFICATIONS. A COMPONENT WHICH EMBODIES ALL REQUIREMENTS STATED ON THIS DRAWING WILL COMPLY WITH REGULATORY REQUIREMENTS.

R3. FOR A COMPREHENSIVE LIST OF ALL SUPPLIER QUALITY ASSURANCE REQUIREMENTS, REFERENCE THE SUPPLIER HANDBOOK BMS-0000051.

GENERAL NOTES

G1. THE MASTER SOURCE OF INFORMATION FOR THIS DOCUMENT IS A COMPUTER DATABASE. FOR BILL OF MATERIALS, REFER TO ITEM IN TESLA MOTORS PLM TOOL. THE ITEM LIST PROVIDED ON THIS DRAWING IS FOR REFERENCE ONLY.

G2. 3D CAD DATA SUPPLIED IS TO BE USED TO PRODUCE PRODUCTION TOOLING AND FOR INSPECTION.

G3. PRINTED DOCUMENT IS UNCONTROLLED - DOCUMENT OBSOLETE WHEN PRINTED.

G4. HARNESS TO BE FULLY CHECKED ELECTRICALLY FOR CONTINUITY AND INTEGRITY

G5. THIS ASSEMBLY SHALL COMPLY WITH GRADE 'C' BATCH TRACEABILITY REQUIREMENTS PER TESLA MOTORS SPECIFICATION BMS-0000051.

G6. THIS COMPONENT MUST BE PACKAGED IN ACCORDANCE WITH TESLA MOTORS SPECIFICATION BMS-0000005, PACK CODE 141.

G7. TOOLING CONSTRUCTED TO FABRICATE THIS COMPONENT SHALL BE PROPERTY OF TESLA MOTORS INC. AND SHALL BE PERMANENTLY MARKED WITH "TESLA MOTORS INC.", TOOLING PART NUMBER AND DATE.

DIMENSIONAL NOTES

D1. INTERPRET SPECIFICATIONS PER GEOMETRIC DIMENSIONING & TOLERANCING ASME Y14.5-2009

D2. CAD UNITS ARE MILLIMETERS AT 1:1. TOOLING SUPPLIER TO ALLOW FOR MATERIAL SHRINKAGE.

D3. DIMENSIONS APPLY AFTER FINISHING OPERATIONS, UNLESS OTHERWISE SPECIFIED.

D4. HARDCOPY IS NOT TO SCALE. DO NOT SCALE IMAGES.

D5. DIMENSIONS ON THIS DRAWING SUPERSEDE WIRE LENGTHS SPECIFIED IN ANY OTHER DOCUMENT PERTAINING TO THIS PART.

D6. TOLERANCES UNLESS OTHERWISE NOTED: \varnothing SIZE ± 0.25 SIZE ± 0.25

\square 2A B C \square \square 2A B C \square \oplus 2A B C \oplus 2A B C

SURFACES WITH ALL TRIM EDGES CIRCULAR FEATURES NON-CIRCULAR FEATURES BLENDED UNIFORMITY

MATERIAL SPECIFICATIONS

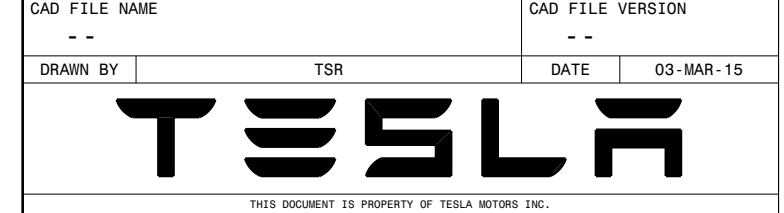
M1. MATERIAL: TINNED COPPER

M2. FINISH: N/A

M3. ALL PARTS IN THIS ASSEMBLY ARE SPECIFIED BY A BILL OF MATERIALS, AND MUST BE SUPPLIED PER THE MANUFACTURER PART NUMBERS INDICATED IN THE BILL OF MATERIALS. PARTS IN THE BOM MAY BE SUBSTITUTED WITH THE SAME PARTS FROM THE SAME MANUFACTURER WHOSE PART NUMBER DIFFERS ONLY IN THE PACKAGING AND/OR QUANTITY PROVIDED.

M4. ANY CHANGE OF MATERIALS, DESIGN, PACKAGING, TOOLING AND PROCESS (INCLUDING ANY PROCESS CHEMICALS) REQUIRES TESLA MOTORS ENGINEERING EVALUATION AND WRITTEN APPROVAL PRIOR TO IMPLEMENTATION.

CAD FILE NAME		CAD FILE VERSION	
--		--	
DRAWN BY	TSR	DATE	03-MAR-15



THIS DOCUMENT IS PROPERTY OF TESLA MOTORS INC. THIS INFORMATION IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

MATERIAL TINNED COPPER			
FINISH N/A		EST. MASS (g) MASS	
THIRD ANGLE PROJECTION	DIMENSIONS ARE IN MILLIMETERS. ANGLES ARE IN DEGREES.	SCALE 1:1	SHEET SIZE B

ITEM NAME WIRE, 8AWG, 168/30, UL758, 1000V, OR [/RD], TIN			
ITEM NUMBER 1059496-00-A	REVISION 01	SHEET 1 OF 1	

D
C
B
A
WIRE, 8AWG, 168/30, UL758, 1000V, OR [/RD], TIN
REV 01
PDM VERSION 01.1