



VP Engineering  
QIFURUI ELECTRONICS CO  
1150 THREE RANCH RD  
DUARTE CA 91010

Date: 2007/09/27  
Subscriber: 100096035  
PartySite: 929567  
File No: E211048  
Project No: 07CA38795  
PD No: 07M55200  
Type: L  
PO Number: CINDY LIU

Subject: **Procedure And/Or Report Material**

The following material resulting from the investigation under the above numbers is enclosed.

**Issue**

<u>Date</u>	<u>Vol</u>	<u>Sec</u>	<u>Pages</u>	<u>Revised Date</u>
2002/05/07	1	6	New Description Page(s) 17,18	2007/09/24
2002/05/07	1	6	Revised Description Page(s) A	2007/09/24
2002/05/07	1	6	New Test Record 10	2007/09/24
2007/09/24			Add New Indep Report	

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

Please review this material and report any inaccuracies to our Customer Experience Center, PHONE: 1-877-ULHELPS (1-877-854-3577), FAX: 1-360-817-6278, E-MAIL: cec@us.ul.com, referring to the above Project and/or PD Numbers.

This material is provided on behalf of Underwriters Laboratories Inc.(UL) or any authorized licensee of UL.

NWT File

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<u>Material</u>	<u>Construction</u>	<u>Description No.</u>	<u>Test Record</u>
XLPE	Insulated Single	1	1
FEP	Insulated Single	2	2
PVC	Insulated Single	3	3, 6, 7
PVC	Multiconductor Parallel	4	3
Silicone Rubber	Insulated Single	5	4
XLPVC	Insulated Single	6	5
SRPVC	Insulated Single	7	8
PVC	Non-Integral Jacketed Cable	8	9
<b>EPDM</b>	<b>Insulated Single</b>	<b>9</b>	<b>10</b>

DESCRIPTION NO. 9

PRODUCT COVERED:

CNR: Appliance Wire, Extruded EPDM, Insulated Singles, Class I, Group A, B or A/B.

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

CNR indicates investigation to Canadian Standard C22.2, No. 210.2. This product shall be constructed in accordance with the Canadian Standard for Appliance Wiring Material Products, C22.2, No. 210.2, and as described below:

CONSTRUCTION DETAILS:

Construction - This is an insulated single with extruded EPDM insulation.

Use Class - I (internal use)

Group - A (Not subject to mechanical abuse)  
B (May be subject to mechanical abuse)

Voltage Rating - 30, 150, 300 or 600 V.

Temperature Rating - 60, 80, 90, 105 or 125°C.

Flame Rating - FT1 and/or FT2.

Conductor - Solid or stranded, in accordance with the Standard.

Insulation - Material Class No. 1, 3, 4 or 5, EPDM with thickness in accordance with the Table below:

Table: 1

Material: EPDM  
 Temperature Rating: 125°C  
 Use Class: I (Internal)  
 Group: A, B, or A/B

Conductor Size	Minimum Average Thickness, mils					Minimum Thickness At Any Point, mils				
	30 V	150 V	300 V	600 V	1000 V	30 V	150 V	300 V	600 V	1000 V
44 - 10 AWG	30	30	30	30	--	27	27	27	27	--
8 - 2 AWG	30	30	30	30	-	27	27	27	27	-
1 - 4/0 AWG	30	30	30	30	-	27	27	27	27	-
250 - 500 kcmil	30	30	30	30	-	27	27	27	27	-

Marking - In accordance with the Section General and the Standard.

TEST RECORD NO. 10

## SAMPLES:

A sample of Canadian Appliance Wiring Material EPDM Insulated Single as indicated below and constructed as described herein, was submitted by the manufacturer for examination and test.

Material	Construction	Temp °C	Voltage	Wall Thickness, mils
EPDM	Insulated Single	125	600	31

## GENERAL:

Test results relate only to the items tested.

## CSA Appliance Wiring Material

Test	Section
Thickness, Insulation	5.3
Physical Properties, Unaged and Air Oven Aged, Insulation	5.2, 6.2.1
Conductor Corrosion Test, Insulation	4.2.4.2
Flexibility and Dielectric Test, Insulation	7.6.8
Heat Shock and Dielectric Test, Insulation	7.6.6
Cold Bend and Dielectric Test, Insulation	7.6.2
Durability of Print Test, Insulation	7.6.4, 8.8.4
FT2 Horizontal Test, Insulation	7.6.3(b), 8.8.3(b)

The test methods and results of the above tests have been reviewed and found in accordance with the requirements in Canadian Standard CAN/CSA C22.2 No. 210-05 dated November 2006, Appliance Wiring Material Products.

## Test Record Summary:

The results of this investigation indicate that the products evaluated comply with the applicable requirements in Canadian Standard CAN/CSA C22.2 No. 210-05 dated November 2006, Appliance Wiring Material Products and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Report by:

DAWN BOTT  
Engineering Project Handler  
Conformity Assessment Services

Reviewed by:

ROGER HERB  
Staff Engineer  
Conformity Assessment Services

File E211048  
Project 07CA38795

September 24, 2007

REPORT

on

COMPONENT - APPLIANCE WIRING MATERIAL

Qifurui Electronics Co.  
Duarte, CA

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DESCRIPTION

PRODUCT COVERED:

Appliance Wiring Materials, Styles 3279, 3280, 3284, 3285, 3311, 3327, 3328, 3329, 3330, 3478, 3484, 3494 and 3658.



TEST RECORD NO. 1

SAMPLES:

A sample of the EPDM insulated single as indicated below and constructed as described herein, was submitted by the manufacturer for examination and test.

Material	Construction	Temp °C	Voltage	Wall Thickness, mils	US AWM Style
EPDM	Insulated single	125	600	31	3478

Testing of US AWM Styles 3478 and is representative of US AWM Styles 3279, 3280, 3284, 3285, 3311, 3327, 3328, 3329, 3330, 3484, 3494 and 3658.

GENERAL:

Test results relate only to the items tested.

Only the following testing of Style 3478 was considered necessary based upon the previous evaluation of Canadian Appliance Wiring Material EPDM Insulated Singles covered under Report Ref. No. File E211048, Vol. 1, Sect. 6, Description 9.

The following tests were conducted.

Insulation or Flat Ribbon Cable:

Test	Section
Crushing Resistance of Insulation	26
Dielectric Strength Test, Method I	28
Dielectric Strength Test, Method II	29
Dielectric Strength Test, Method III	30
VW-1 Flame Test:	41

The test methods and results of the above tests have been reviewed and found in accordance with the requirements in Underwriters Laboratories Inc. Standard UL 758, 2<sup>nd</sup> Edition dated April 24, 2006.

Test Record Summary:

The results of this investigation indicate that the products evaluated comply with the applicable requirements in Underwriters Laboratories Inc. Standard UL 758, 2<sup>nd</sup> Edition dated April 24, 2006 and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Test Record By:

DAWN M. BOTT  
Engineering Project Handler  
Conformity Assessment Services

Reviewed By:

ROGER J. HERB  
Staff Engineer  
Conformity Assessment Services

## CONCLUSION

A sample of the component covered by this Report has been found to comply with the requirements covering the category and the component is judged to be eligible for Component Recognition and Follow-Up Service. Under the Service, the manufacturer is authorized to use the Recognized Marking described in the Follow-Up Service Procedure on such products which comply with said Procedure and any other applicable requirements of Underwriters Laboratories Inc. Only those products which properly bear the Recognized Markings are considered as Recognized Components by Underwriters Laboratories Inc. Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

Report by:

Reviewed by:

Dawn Bott  
Engineering Project Handler  
Conformity Assessment Services

Roger Herb  
Staff Engineer  
Conformity Assessment Services