

File E336141
Project 10CA03784

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REPORT

On

COMPONENT - APPLIANCE WIRING MATERIAL

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DESCRIPTION NO. 1

PRODUCT COVERED:

CNR: Appliance Wire, Extruded Silicone Rubber Multiconductor Flat Ribbon Cable, Class I, Group A.

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

CNR indicates investigation to Canadian Standard C22.2 No. 210. This product shall be constructed in accordance with the Canadian Standard for Appliance Wiring Material Products, C22.2 No. 210, and as described below.

TEST RECORD NO. 1

SAMPLES:

Samples of Appliance Wiring Material as indicated below and constructed as described herein, were submitted by the manufacturer for examination and test.

Material	Construction	Temp, °C	Voltage , V	Average Thickness, mils	Minimum Thickness at any point, mils
Silicone Rubber	Flat Cable (Insulation extruded simultaneously over two or more conductors construction)	150	60	29.8	26.0

GENERAL:

Test results relate only to the items tested.

The following tests were conducted.

Silicone Rubber Flat Cable (Insulation extruded simultaneously over two or more conductors construction) -

Test	Section
Thickness, Insulation	7.3
Physical Properties, Unaged and Air Oven Aged	14
Flexibility Test Of Insulation After Air Oven Conditioning	20
Cold Bend Test (Tested At -20°C)	22
Crush Resistance Test	27
Dielectric Test, Method I	28
Dielectric Test, Method II	29
Dielectric Test, Method III	30
VW-1 Flame Test	41
FT-2 Flame Test	43

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.

UL 758 Standard Test / Section	Represented UL 758 Standard Test / Section
FT-2 Flame Test / 43	Horizontal Flame Test / 39

The test conducted in accordance with UL 758 was considered representative of other test required by Underwriters Laboratories Inc. Standard UL 758 as indicated in the table above.

CNR Appliance Wiring Material, Silicone Rubber Insulation -

Test	Section
Thickness, Insulation	5.3
Physical Properties, Unaged and Air Oven Aged, Insulation	5.2
Flexibility and Dielectric Strength Tests, Insulation	7.6.8
Heat Shock and Dielectric Strength Tests, Insulation	7.6.6
Cold Bend and Dielectric Strength Tests, Insulation (Tested At -20°C)	7.6.2
Slow Compression Test	7.6.9
Dielectric Strength Test of Insulated Single	5.4.1.1
FT2 Horizontal Test, Insulation	7.6.3(b)

The test methods and results of the above tests have been reviewed and found in accordance with the requirements in Canadian Standard CSA C22.2 No. 210.

UL 758 Test / Section	Canadian Standard Test / Section
VW-1 Flame Test / 41	FT1 Vertical Test / 7.6.3(a)

The test conducted in accordance with UL 758 was considered representative of the other test required by Canadian Standard, CSA C22.2 No. 210 as indicated in the table above.

Test Record Summary:

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in Underwriters Laboratories Inc. Standard UL 758, Second Edition, for Appliance Wiring Material, containing revisions through and including December 11, 2009, and Canadian Standard CSA C22.2 No. 210, Second Edition, for Appliance Wiring Material Products, containing revisions through and including November, 2006, and therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report. Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

CONCLUSION

Samples of the components covered by this Report have been found to comply with the requirements covering the category and the components are found to comply with UL's applicable requirements. The description and test result in this Report are only applicable to the samples investigated by UL and does not signify the products described as being covered under UL's Follow-Up Service Program. When covered under UL's Follow-Up Service Program, the manufacturer is authorized to use the Recognized Marking on such products which comply with UL's Follow-Up Service Procedure and any other applicable requirements of Underwriters Laboratories Inc. The Recognized Component Mark of Underwriters Laboratories Inc. on the product, or the Recognized Marking symbol on the product and the Recognized Component Mark on the smallest unit container in which the product is packaged, is the only method to identify products investigated by UL to published requirements and manufactured under UL's Recognition and Follow-Up Service.

This Report is intended solely for the use of UL and the Applicant for establishment of UL certification coverage of the product under UL's Follow-Up Service. Any use of the Report other than to indicate that the samples of the product covered by the Report has been found to comply with UL's applicable requirements is not authorized and renders the Report null and void. UL shall not incur any obligation or liability for any loss, expense, or punitive damages, arising out of or in connection with the use or reliance upon the contents of this Report to anyone other than the Applicant as provided in the agreement between UL and Applicant. Any use or reference to UL's name or certification marks by anyone other than the Applicant in accordance with the agreement is prohibited without the express written approval of UL.

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