

CERTIFICATION Notice

An Urgent Bulletin from CSA Group

Wiring Devices No. 111

(Supersedes Notice Wiring Devices No. 37A, Ref No: N08-045)

Effective Date: December 30, 2017

Date: May 18, 2016

Apply Before January 30, 2017

Announcing: Publication of CSA Standard C22.2 No. 130-16, Requirements for electrical resistance trace heating and heating device sets

Class No: 2872 01, HEATERS - Cable and Cable Sets

To purchase the Standard, visit us at www.shop.csa.ca

Who is affected?

Manufacturers of electric resistance trace heating and heating device sets.

What do you do?

1. CSA Group Service Delivery staff will contact you to address compliance with each revision as applicable to the product designs covered in your affected Certification Reports. In addition to updates to your Certificate(s) of Compliance & Report(s), testing may be required to comply with these revisions.
2. Please respond within thirty (30) days of receiving CSA Group's "Application for CSA Certification Services" and "Quotation" communication. You must respond no later than January 30, 2017 in order to guarantee the update to your certification is completed by December 30, 2017. If testing is needed, we will inform you of the samples required.

Major Revisions:

This announces a publication of CSA standard C22.2 No. 130-16 which supersedes the previous edition, C22.2 No. 130-03. CSA standard C22.2 No. 130-16 modifies many tests as detailed in the list of major revisions within Attachment 1. The changes were added to align with the international standard IEC 60069-30-1; Explosive atmospheres – Part 30-1: Electrical resistance trace heating – general and testing requirements.

Background and Rationale:

This is the fourth edition of CSA C22.2 No. 130, Requirements for electrical resistance trace heating and heating device sets. This edition supersedes the previous edition published in 2003 (R2013) under the title Requirements for electrical resistance heating cable and heating device sets.

For questions specific to your file or products contact your CSA Group technical staff associate.

Go to <http://www.csagroup.org/services/testing-and-certification/certified-product-listing/> and enter your Master Contract # and the class numbers associated with this Notice to determine which of your products are affected.

For technical questions on this Certification Notice

Contact Todd Hamden
by phone 416.747.2225, fax 416.401.6533
or e-mail todd.hamden@csagroup.org

The standard edition or amendments announced in this Notice may be used for certification as of the date of issue of this Notice. The "Effective date" in this Notice is the date on which the current requirements, applicable to Certified products listed in the affected class numbers, expire and the standard edition or amendments announced in this Notice become the only requirements that may be used for certification.

In the event that currently certified products do not comply with the latest requirements outlined in this Notice after the "effective date", the certification of such models may be discontinued.



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ATTACHMENT 1

Major Revisions

Major Revisions in C22.2 NO. 130-16 from C22.2 No. 130-03

Change:	Retesting required Y/N
Scope increased to include ceiling and wall heating	N
The wording Heating Cable has been changes to "Trace Heater" to line up with international standards	N
Clarification to 1.4 as follows: Note: <i>Carbon ink dispersion does not include an extruded polymer material.</i>	N
Definitions added and modified to as required by new edition of standard	
Heating devices rated for Extra Low voltage are no longer required to have an electrically conductive covering (Braid, Sheath)	N
Heating cables for general use now require a sheath minimum coverage of 70%, or shall pass the pin penetration test	Y
Surface heating devices now require a sheath minimum coverage of 70%, or shall pass the pin penetration test (reduced from 80% and added pin penetration test)	N
All temperature controls shall meet the requirements of applicable standards such as C22.2 no 24 (in past only integral controls)	N
Ground Fault protective devices must meet the requirements of the latest standards of C22.2 no 144 & 144.1	Y
Markings for Factory or field Assembled heating devices require "R" value of insulation for all space heating application (ie floor, wall, and ceiling).	N
Insulation Resistance testing (dry) has been added after all Dielectric tests in the standard.	Y
Verification of startup current has been slightly modified to include wording from international standards. Clarification on the use of correlating data and removal of upper third of the manufactures declared output tolerance.	N
Verification of Sheath Temperatures: <ul style="list-style-type: none"> - Added new Normative Table E1 for maximum temperatures allowed (Previous Table Informative) - Added new Pipe sculpture (Longer with U bend and thermocouple locations) - Added manufactures calculated sheath temperature values (Change from predicted values) which required manufactures to produce heat transfer calculations for certification purposes. - Added Plate testing method as optional test after demonstrated the ability to predict a runaway pipe (work piece) temperature (Tpr) - Added Indoor trace heaters or surface heaters used for space heating - Added R20 insulation minimum for floor heating applications 	Y

Change:	Retesting required Y/N
<ul style="list-style-type: none"> - Added: Indoor embedded installation on sub-floors; Indoor wall installation; Ceiling installation; - Modified testing for Ceiling Heating Minimum R 50 Insulation value required for testing 	
Modified Overload capacity of grounding braid or sheath (Sample is now required to cool to room temperature between test currents)	N
Modified Crush Test by adding Insulation Resistance test after Dielectric	Y
Modified wording for Resistance to cutting test to include apparatus and sample preparation previously found in C22.2 no 0.3	N
Modified Cold bend, Room and cold impact tests by adding Insulation resistance testing after Dielectric	Y
Modified Elevated Temperature exposure testing increasing oven Temperature exposure from 14 days to 28 days at 20+/- 5C (previous 25+/_5C) above maximum continuous exposure temperature. Also added Insulation resistance test after dielectric	Y
Modified PATA test to include samples shall be within the upper half of the manufacturer's declared thermal output tolerance. Also changed method slightly to include continuous monitoring of power output.	N
Added Pin Penetration Test for braids less than 70%. New Test Mechanically protected heaters — Penetration test for new heating products	N
<p>Installation instructions have been amended to include:</p> <ul style="list-style-type: none"> - the wording "Caution: a ground fault protection devices must be used with this heating device" - See Table 67 of the Ce code, Part I) includes clearances from combustible surfaces 	N
Heating devices and integral components intended to be installed in a (cementitious) cement-based layer of mortar* on a wood or concrete floor, or on a wall or ceiling surface, testing now includes a cold impact at 4J	Y