

CERTIFICATION Notice

An Urgent Bulletin from CSA Group

Wiring Devices No. 101

(Supersedes *Informing Wiring Devices No. 34, TIL A-29A and Notice Wiring Products No. 6*)

Effective Date: December 30, 2016

Date: May 5, 2015

Apply Before June 30, 2016

Announcing: Publication of Standard CSA C22.2 No. 21-14 Ninth Edition, Cord sets and power-supply cords

See Attachment 1 for affected Class Numbers.

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

Who is affected?

Manufacturers of cord sets and power supply cords.

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 June 30, 2016 in order to guarantee the update to your certification is completed by December 30, 2016. If testing is needed, we will inform you of the samples required.

Major Revisions:

The standard C22.2 No. 21-14 includes numerous changes from the previous edition, including:

- rearrangement to include separate sections for each type of cord set, including those using connectors complying with requirements in CAN/CSA-C22.2 No. 60320-1;
- new requirements that will require retesting; and
- requirements that have been added from other standards that were referenced in the previous edition C22.2 No 21-95 (R2009)

For a summary of major changes see attachment 2

Background and Rationale:

This edition of the standard was developed at the request of industry to align Canadian requirements with those in the U.S. This standard, C22.2 No. 21-14 replaces the previous edition of the standard CSA C22.2 No. 21-95 (R2009), and incorporates the requirements in Technical Information Letter (TIL) CSA A-29A, Interim certification requirements for seasonal use cord sets for indoor and indoor/outdoor use. With the publication of C22.2 No. 21-14, the TIL CSA A-29A will be withdrawn.

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

Go to <http://www.csagroup.org/us/en/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

In the event your models do not comply with the effective standards, arrangements must be made to bring them into compliance.

In the event we do not receive a response as to your currently certified models, prior to the above applicable effective date(s), the certification of such models will be discontinued.



Visit us at www.csagroup.org Click on "Contact Us" for the online phone listing of our Offices and Partners

ATTACHMENT 1

Affected Class Numbers

Class No:

5841 01, CORD SETS - General-use Extension Cord Sets
5841 02, CORD SETS - Heater Cord Sets
5841 03, CORD SETS - Special-use Cord Sets
5841 04, CORD SETS - Power Supply Cords (Replacement Type)
5842 01, CORD SETS - Miscellaneous Cord Sets
5842 02, CORD SETS - Power Supply Cords
5842 03, CORD SETS - Custom Power Supply Cords
5842 04, CORD SETS - Power Supply Cord Kits
5842 05, CORD SETS - Multiple Receptacle Extension Boxes
5842 06, CORD SETS - Cord Reels
5842 07, CORD SETS - Seasonal Use Cord Sets
5842 81, CORD SETS - Miscellaneous Cord Sets - Certified to US Standards
6242 01, MULTI-OUTLET ASSEMBLIES
6242 08, WIRING SYSTEMS AND ACCESSORIES - Furniture Power Distribution Units

ATTACHMENT 2

Major Revisions

Major Differences Between C22.2 No. 21-14 and C22.2 No. 21-95 (R2004)

| Clause | Summary of Change |
|---------------------|---|
| 5.1.1.1 | References to configurations of IEC CAN/CSA-60320-1, IEC 60320-2-2, were added |
| 5.1.3 | Addition of new requirements for accessibility of live parts |
| 5.1.6 | New requirements for terminal identification and positioning of earthing, line and neutral contacts added |
| 5.1.7; 7.1.7; 7.1.8 | New tests added for outdoor use fittings (Weather Resistance, Crushing & Impact) |
| 5.2.3.1 | Hospital grade attachment plugs may be 1-15P and are not limited to power supply cords only |
| 5.3.1.3 | Depth of cavity test added for 1-15R cord connectors |
| 5.3.1.5 | Requirements for closure of openings for cord connectors added |
| 5.3.2 | Holes, indentions and projections reduced from 10mm to 9.5mm |
| 5.3.5 | New test for cord connectors for outdoor use - Adhesion Test |
| 5.4.3.1 | Requirements for pendant and through cord switches have been added |
| 5.4.3.2 | New marking requirement added for supplementary protectors |
| 5.4.4 | New requirements added for outdoor use switches |
| 5.4.5 | New requirements for Current Taps and pendant switches added |
| 5.4.6 | New requirements for Through-cord heating-pad switches |
| 5.4.8 | New requirements added for overcurrent protection |
| 5.4.9 | New temperature test requirements added for cord restraint devices |

| Clause | Summary of Change |
|--------------|--|
| 6.1.2.1.3 | New requirements power supply cord for toy transformer or electric toy |
| 6.1.4 | Revised Length and ampacity tables 2, 3 and 4 |
| 6.1.5 | Revised Lengths Table 5, 6.minor changes |
| 6.1.6 | Revisions to ratings not a file review item |
| 6.1.7 | New requirements for power supply cords packaged individually. Marking requirements per 8.12. |
| 6.2.3 | New requirement for A special-use power-supply cord intended for use with a toy transformer or electric toy |
| 6.2.4 | New requirements for A special-use power-supply cord intended to be woven in the lings of a chain-suspended portable lamp |
| 6.3 & 6.4 | New requirements for power supply cords for RV's and mobile homes |
| 6.7.2.2 | Added new section for cold usage cord sets. This test is in addition to the already outdoor usage cord set of minimum -20C |
| 6.7.3.2 | Minimum switch ratings added for through cord switches and pendant switches |
| 6.7.4.3 | Outdoor use size added 18AWG (smaller) |
| 6.7.5.2 | Add minimum length requirements for outdoor use extension cord-sets 1.8m |
| 6.8 | Added requirements for Adapter cord sets |
| 6.9.1.1 | Added reference to 60320 products for special use cord sets |
| 6.9.2.3 | Connector may be lower rating than the plug for special use cord sets (Clarification) |
| 6.10 | Separated out section specific for Vacuum cleaners and floor-finishing machines |
| 6.11 | Separate section for RV cord sets minimum length 7M |
| 6.12 | Hospital grade cord sets minimum length requirement 4.6M |
| 6.13 | |
| 6.16 | New section for Appliances rated 50W or less (i.e. shaver cord sets) |
| 6.17 | New type of replacement special use cord set with nonstandard polarization |
| 7.1.3 | Strain Relief: Added the use of a tensile machine |
| 7.1.3.6 - .7 | Added additional testing for through cord switches and assemblies |
| 7.1.5 | Added Insulation Resistance test |
| 7.1.7 | Crush Test now added into this standard instead of reference to C22.2 no 42 |
| 7.1.8 | Increase impact test for all fittings to 1000 cycles |
| 7.1.10 | Jacket Retention test: Same as Abrupt pull test but with torsion added |
| 7.1.11 | New Adhesion test (Visual exam after bending) |
| 7.2.2.2 | New Temperature test for Adapter cord set joints |
| 7.3.3 | New Test "Push Back Force" for range and dryer cords |
| 7.4.1 | New Test for cord connectors "Depth of Cavity test" |
| 7.4.10 | New Closure of openings test (Ref: 5.3.1.5) |
| 7.6.1 | New Tests added for Overcurrent protective devices |
| 7.9 | Added Test for Permanence of warning tag (indoor, outdoor, oil...) |
| 8 | Marking changes added tags etc. |
| Table 1 | NEW: Types of flexible cord, cable, and wire for power-supply cords and cord sets: Adds clarity |
| Table 2 | Amperage similar but conflicts with Clause 6.7.4.3 (Committee to fix) |
| Table 3 | NEW: Circuit-conductor ampacity and voltage rating for braid-covered cords in |

| Clause | Summary of Change |
|-----------|---|
| | general-use cord sets and power-supply cords |
| Table 4 | NEW: Circuit-conductor ampacity and voltage rating for jacketed cords in extension cord sets and power-supply cords |
| Table 5 | NEW: Circuit-conductor ampacity and voltage rating for braidless parallel cord in general-use cord sets and power-supply cords |
| Table 6 | NEW: Smallest acceptable conductor size with respect to fittings used on outdoor-use cord sets and outdoor-use power-supply cords |
| Table 7 | NEW: Sizes and number of conductors in recreational-vehicle power-supply |
| Table 9 | NEW: Diameter of locknut |
| Table 10 | NEW: Flexible cord for general-use cord sets |
| Table 11 | NEW: Ratings of cord sets 125-V, 2-pole, 2-wire, and 2-pole, 3-wire |
| Table 12 | NEW: Ratings of cord sets 250-V, 2-pole, 3-wire |
| Table 13 | NEW: Ratings of cord sets 277-V, 2-pole, 3-wire |
| Table 14 | NEW: Ratings of cord sets 125/250-V, 3-pole, 4-wire |
| Table 15 | NEW: Ratings of cord sets 250-V, 3-pole, 4-wire, 3-phase delta |
| Table 16 | NEW: Adapter cord set fittings and cord length |
| Table 17 | NEW: Fittings and cord length for adapter cord sets employing in-line outlets |
| Table 18 | NEW: Pins of appliance and flatiron plugs |
| Table 19 | NEW: Contacts |
| Table 20 | New: Range and dryer power-supply cords |
| Table 21 | NEW: Oven temperatures for aging test for range and dryer strain relief |
| Table 22 | NEW: Test gauge configurations for conditioning |
| Table 23 | NEW: Test gauge configurations for retention testing |
| Table 24 | NEW: Test gauge configurations for withdrawal testing |
| Table 25 | NEW: Mating plug configurations for overload testing |
| Table 26 | NEW: Mating plug configurations for temperature testing |
| Figure 1 | NEW: Added Articulate probe with web stop |
| Figure 2 | New: Grounding pin profiles |
| Figure 4 | New: Male fitting face dimensions |
| Figure 5 | NEW: Blade construction of 2-pole, 2-wire attachment plug |
| Figure 6 | NEW: Female plug face dimensions |
| Figure 7 | NEW: Depth of cavity gauge |
| Figure 8 | NEW: Faces of outlet devices showing smallest acceptable obstructions |
| Figure 9 | NEW: Outdoor-use cord set and 3-outlet cord connector |
| Figure 10 | NEW: Cord set and power-supply cord length measurement |
| Figure 11 | NEW: Minimum insulation thicknesses for appliance wiring material used in a chain suspended lamp |
| Figure 13 | NEW: Single to single configuration |
| Figure 14 | NEW: Multiple outlets with no joints |
| Figure 15 | NEW: Multiple single outlets with joints |
| Figure 16 | NEW: Adapter cord sets employing in-line outlets |
| Figure 17 | New: Torque testing equipment |
| Figure 30 | New: Water-spray-head piping |

| Clause | Summary of Change |
|---------------------|--|
| Figure 35 | NEW: Example of marking required in Clause 8.15.5 |
| Annex A (Normative) | NEW: Added a component standards reference list |
| Annex B (Normative) | NEW: Added illustrative definitions of various cord set types |
| Annex D (Normative) | <p>NEW: Added requirements for cord reels and power bars, including requirements that were previously in withdrawn TILs A-16, A-24, and B-52</p> <p><i>Note: The standard CSA C22.2 No. 12 referenced in Clause D.3.1.1.4, has been superseded by CSA C22.2 No. 250.4-14</i></p> |
| Annex E (Normative) | NEW: Added requirements for seasonal use cord sets from TIL A-29A. TIL A-29A will now be withdrawn |