



CANADIAN STANDARDS
ASSOCIATION

INFO UPDATE

Electrical/Electronics

Volume 6 — September/October 2008

Issue date: September 24, 2008

Info Update is published by the Canadian Standards Association (CSA) eight times a year. It contains important information about new and existing standards, e.g., recently published standards, and withdrawn standards. It also gives you highlights of other activities and services.

CSA offers a free online service called *Keep Me Informed* that will notify registered users when each new issue of *Info Update* is published. To register go to <http://www.csa-intl.org/onlinestore/KeepMeInformed/PleaseIdentifyYourself.asp?Language=EN>.

To view the complete issue of *Info Update* visit <http://standardsactivities.csa.ca/standardsactivities/default.asp?language=en>.

What you'll find

Within each program, information is organized into the following sections:

Completed Projects / Projets terminés

▼ **New Standards – New Editions – Special Publications**

This section lists new standards, new editions (including adoptions), and special publications that have been published since the last issue of *Info Update*. To place your order call 1-800-463-6727 or visit our Online Store at <http://www.csa.ca>. Prices shown are quoted in Canadian dollars and do not include applicable taxes or shipping charges. Our office locations are listed at the end of this document.

▼ **Nouvelles normes – Nouvelles éditions – Publications spéciales publiées en français**

Cette section énumère les nouvelles normes et éditions (y compris les normes adoptées) ainsi que les publications spéciales qui ont paru depuis la dernière livraison du bulletin Info-Update. Pour commander, composez le 1 800 463-6727 ou visitez notre Boutique en ligne, au <http://www.csa.ca>. Les prix sont indiqués en dollars canadiens et ne comprennent pas les taxes pertinentes ni les frais d'expédition. La liste de nos bureaux est présentée à la fin de ce document.

▼ **Amendments**

Amendments are issued periodically for some standards. This section lists amendments that have been published since the last issue of *Info Update*. Most amendments are made available to the purchaser free of charge by returning the update notification card included in the standard or registering online for the update service through the Online Store at <http://www.csa.ca> and clicking on "My Account" on the navigation bar. Amendments developed by other standards development organizations, and adopted by CSA are made available for a fee. The prices shown are quoted in Canadian dollars and do not include applicable taxes or shipping charges.

▼ **Modifications publiées en français**

Dans le cas de certaines normes, des modifications sont publiées à intervalles réguliers. Cette section présente la liste des modifications publiées depuis la dernière livraison du bulletin *Info-Update*. La plupart des modifications étant offertes gratuitement, vous n'avez qu'à remplir et à nous retourner la carte d'avis de mise à jour incluse avec chaque norme. Vous pouvez également vous inscrire en direct à notre service de mise à jour en vous rendant à la Boutique en ligne, au <http://www.csa.ca>, et en cliquant sur le bouton « Mon compte » de la barre de navigation. Des frais s'appliquent toutefois aux modifications élaborées par d'autres organismes de normalisation et adoptées par la CSA. Les prix sont indiqués en dollars canadiens et ne comprennent pas les taxes pertinentes ni les frais d'expédition.

▼ **Adopted Standards**

Adopted standards have been developed by another standards development organization and have been approved by our technical committee for use in Canada, with or without modification. They are available for sale from CSA. You will find published adopted standards listed under "New Standards — New Editions — Special Publications."

▼ **Endorsed Standards**

Endorsed standards have been developed by another standards development organization, and have been approved by the appropriate CSA technical committee for use in Canada.

Endorsed standards are not sold by CSA.

For copies, contact the originating organization or Global Info Centre Canada at 1-800-854-7179 or 613-237-4250; fax 613-237-4251; e-mail gic@ihscanada.ca; Web site <http://www.global.ihs.com>.

Completed Projects (cont'd) / Projets terminés (suite)

▼ Reaffirmed Standards

The standards listed in this section have been reviewed to determine if they remain technically valid and are acceptable for use until the next edition is published or for a further five years.

▼ Withdrawn Standards

The standards listed in this section have been withdrawn. Most withdrawn standards are available from our archived collection. Some copies may not be in original format.

To order, call toll-free 1-800-463-6727 (in Toronto, 416-747-4044).

▼ Formal Interpretations

This section lists questions that individuals have submitted about a particular standard. Each question has been reviewed and answered by the appropriate committee. If you would like to submit a question about a particular standard, please see the end notes in the preface of that standard.

Under Development

The *Under Development* section formerly published in *Info Update* is now available directly on the CSA website. This enhancement allows us to provide you with these important notifications on a more timely basis. To visit the new "Current Standards Activities" page, go to: <http://standardsactivities.csa.ca/standardsactivities/default.asp?language=en>.

Certification and Testing (CSA International)

▼ Informs Notices (Bulletins from CSA International)

An *Informs* is a notice containing information only. It does not contain anything that would require you to resubmit products for certification. If you would like a copy of an *Informs* notice, call CSA International at 416-747-4171, or fax 416-747-2476.

▼ Certification Notices

Certification notices inform you about changes that would require a product to be resubmitted for certification or about critical factors that may affect a product's certification. Products must comply with the changed requirements by the effective dates given.

CSA certification and testing clients receive these notices automatically. If you did not receive a copy or would like to receive one, call CSA International at 416-747-2488, or fax 416-747-4173.



Completed Projects / Projets terminés

New Standards – New Editions – Special Publications

C22.2 No. 2459-08, 1st edition

Insulated Multi-Pole Splicing Wire Connectors (bi-national standard with UL 2459, first edition)

PDF only \$370

This standard covers insulated multi-pole mating or non-mating splicing wire connectors intended for field wiring and factory wiring for use in accordance with the *Canadian Electrical Code, Part I*, in Canada, and NFPA 70, *National Electrical Code*, in the United States.

These wire connectors are intended to facilitate the connection of devices (such as prefabricated wiring assemblies, smoke detectors, and lighting products) to the branch circuit conductors of buildings.

These wire connectors are suitable for use with 30 to 6 AWG (0.05 to 13.3 mm²) stranded copper conductors and 30 to 10 AWG (0.05 to 5.3 mm²) solid copper conductors.

CAN/CSA-C22.3 No. 61936-1:08, 1st edition (bilingual)

Power installations exceeding 1 kV a.c. — Part 1: Common rules (Adopted CEI/IEC 61936-1:2002, first edition, with Canadian deviations)

PDF only \$265

This standard provides, in a convenient form, common rules for the design and erection of electrical power installations in systems with nominal voltages above 1 kV a.c. and nominal frequency up to and including 60 Hz, to provide safety and proper functioning for the intended use.

Nouvelles normes – Nouvelles éditions – Publications spéciales publiées en français

C22.2 n° 123-08, 5^e édition

Câbles sous gaine métallique

PDF seulement 75 \$

Cette norme vise les câbles RA90 et RC90 monoconducteurs et multiconducteurs. Les câbles visés ont une température nominale maximale de 90 °C dans les endroits secs et humides et sont destinés à être installés conformément au *Code canadien de l'électricité, Première partie*.

Les câbles visés par cette norme sont destinés à être utilisés dans des réseaux à tension nominale ne dépassant pas 5000 V, à l'exception des câbles à deux conducteurs parallèles sous gaine d'aluminium lisse qui sont destinés à des réseaux de tension nominale ne dépassant pas 600 V.



Nouvelles normes – Nouvelles éditions – Publications spéciales (suite)

C22.2 n° 123-08 (suite)

Les câbles sous gaine d'aluminium RA90 ou de cuivre RC90 visés par cette norme comportent une gaine métallique lisse sans soudure ou une gaine métallique ondulée, soudée ou non, appliquée sur un ou plusieurs conducteurs isolés. Dans certains cas, la gaine peut être entourée d'une enveloppe extérieure non métallique.

C22.3 n° 61936-1, 1^{re} édition (bilingue)

Installations électriques en courant alternatif de puissance supérieure à 1 kV — Partie 1 : Règles communes (norme CEI/IEC 61936-1:2002, première édition, adoptée avec exigences propres au Canada)

PDF seulement 265 \$

Cette norme fournit, sous une forme appropriée, des prescriptions communes relatives à la conception et la mise en œuvre des installations électriques de tensions nominales supérieures à 1 kV en courant alternatif et de fréquence nominale jusqu'à 60 Hz, afin d'assurer la sécurité et le fonctionnement correct pour l'utilisation prévue.

Amendments

CAN/CSA-C22.2 No. 62.1-03 (R2008)

Nonmetallic Surface Raceways and Fittings (bi-national standard with UL 5A, third edition)

Revision of the title page, the copyright page, the preface, and Clause 7.4.

This document is available in Portable Document Format (PDF) only.

CAN/CSA-C22.2 No. 94.1-07

Enclosures for Electrical Equipment, Non-Environmental Considerations (tri-national standard with NMX-J-235/1-ANCE-2007, second edition, and UL 50, twelfth edition)

Revision of the outside and inside front cover and the title page. Addition of National Standards of Canada text.

This document is available in Portable Document Format (PDF) only.

CAN/CSA-C22.2 No. 94.2-07

Enclosures for Electrical Equipment, Environmental Considerations (tri-national standard with NMX-J-235/2-ANCE-2007, second edition, and UL 50E, first edition)

Revision of the outside and inside front cover and the title page. Addition of National Standards of Canada text.

This document is available in Portable Document Format (PDF) only.



Amendments (cont'd)

CAN/CSA-C22.2 No. 2556-07

Wire and Cable Test Methods (tri-national standard with NMX-J-556-ANCE, second edition, and UL 2556, second edition)

Revision of the outside front cover and the title page. Addition of National Standards of Canada text.

This document is available in Portable Document Format (PDF) only.

CAN/CSA-C68.5-07

Primary Shielded and Concentric Neutral Cable for Distribution Utilities

Revision of the outside front cover and the title page. Addition of National Standards of Canada text.

This document is available in Portable Document Format (PDF) only.

Modifications publiées en français

CAN/CSA-C22.2 n° 14-05

Appareillage industriel de commande

Des modifications ont été apportées à la table des matières, à l'article 2.1.1, au chapitre 3, aux articles 4.9.14, 4.11.1.2, 4.11.1.6.2, 4.11.1.7, 4.11.1.8, 4.14.1.4.5, 4.15.1.2, 4.15.1.7, 5.3, 5.7, 5.11, 5.33, 5.45.1, 5.49, 5.54, 6.2.1, 6.2.7, 6.12.1.1, 6.19.1 et C.1 et aux tableaux 3, 18B, 41, 43, 45 et 49. Les articles 4.11.1.6.2.1 à 4.11.1.6.2.5, 4.11.1.7.1, 4.11.1.7.2, 4.11.1.10, 5.11.1, 5.11.2, 5.55, 6.2.7.1 et 6.2.7.2, ainsi que les tableaux 51 à 53 ont été ajoutés.

Cette norme est offerte en format PDF seulement.

CAN/CSA-C22.2 n° 62.1-03 (R2008)

Moulures et raccords non métalliques (norme binationale avec UL 5A, troisième édition)

Des modifications ont été apportées à la page titre, à la page des droits d'auteur, à la préface et à l'article 7.4.

Cette norme est offerte en format PDF seulement.

CAN/CSA-C22.2 n° 94.1-07

Enveloppes pour appareillage électrique : facteurs non ambiants (norme trinationale avec NMX-J-235/1-ANCE-2007, deuxième édition, et UL 50, douzième édition)

Des modifications ont été apportées à la première de couverture, à la deuxième de couverture ainsi qu'à la page titre. Le texte relatif aux Normes nationales du Canada a été ajouté.

Cette norme est offerte en format PDF seulement.



Modifications publiées en français (suite)

CAN/CSA-C22.2 n° 94.2-07

Enveloppes pour appareillage électrique : facteurs ambiants (norme trinationale avec NMX-J-235/2-ANCE-2007, deuxième édition, et UL 50E, première édition)

Des modifications ont été apportées à la première de couverture, à la deuxième de couverture ainsi qu'à la page titre. Le texte relatif aux Normes nationales du Canada a été ajouté.

Cette norme est offerte en format PDF seulement.

CAN/CSA-C22.2 n° 2556-07

Modes opératoires d'essai des fils et câbles (norme trinationale avec NMX-J-556-ANCE, deuxième édition, et UL 2556, deuxième édition)

Des modifications ont été apportées à la première de couverture et à la page titre. Le texte relatif aux Normes nationales du Canada a été ajouté.

Cette norme est offerte en format PDF seulement.

CAN/CSA-C68.5-07

Câbles primaires avec écran et à neutre concentrique pour services publics de distribution

Des modifications ont été apportées à la première de couverture et à la page titre. Le texte relatif aux Normes nationales du Canada a été ajouté.

Cette norme est offerte en format PDF seulement.

Reaffirmed Standards

C22.2 No. 0.1-M1985 (R2008)

General Requirements for Double-Insulated Equipment

C22.2 No. 0.2-93 (R2008)

Requirements for Insulation Coordination

C22.2 No. 10-1965 (R2008)

Electric Floor Surfacing and Cleaning Machines

C22.2 No. 45-M1981 (R2008)

Rigid Metal Conduit

C22.2 No. 62-93 (R2008)

Surface Raceway Systems

CAN/CSA-C22.2 No. 62.1-03 (R2008)

Nonmetallic Surface Raceways and Fittings (bi-national standard with UL 5A, third edition)

C22.2 No. 63-93 (R2008)

Household Refrigerators and Freezers (bi-national standard with UL 250, tenth edition)

Reaffirmed Standards (cont'd)**CAN/CSA-C22.2 No. 68-92 (R2008)***Motor-Operated Appliances (Household and Commercial)***C22.2 No. 72-M1984 (R2008)***Heater Elements***C22.2 No. 83-M1985 (R2008)***Electrical Metallic Tubing***C22.2 No. 88-1958 (R2008)***Industrial Heating Equipment***CAN/CSA-C22.2 No. 120-M91 (R2008)***Refrigeration Equipment***C22.2 No. 218.2-93 (R2008)***Hydromassage Bathtub Appliances***CAN/CSA-C22.2 No. 247-92 (R2008)***Operators and Systems of Doors, Gates, Draperies, and Louvres***CAN/CSA-E491-94 (R2008)***Safety requirements for electronic flash apparatus for photographic purposes*
(Adopted CEI/IEC 491:1984, second edition, with Canadian deviations)**CAN/CSA-E968-99 (R2008)***Self-ballasted lamps for general lighting services*
(Adopted CEI/IEC 968:1988, first edition, with Canadian deviations)**CAN/CSA-E1048-98 (R2008)***Capacitors for use in tubular fluorescent and other discharge lamp circuits — General and safety requirements* (Adopted CEI/IEC 1048:1991, first edition, with Canadian deviations)**CAN/CSA-E60974-5:03 (R2008)***Arc welding equipment — Part 5: Wire feeders*
(Adopted CEI/IEC 60974-5:2002, first edition, with Canadian deviations)**CAN/CSA-E61347-1:03 (R2008)***Lamp controlgear — Part 1: General and safety requirements* (Adopted CEI/IEC 61347-1:2000, first edition, with Canadian deviations)**CAN/CSA-E61347-2-3:03 (R2008)***Lamp controlgear — Part 2-3: Particular requirements for a.c. supplied electronic ballasts for fluorescent lamps* (Adopted CEI/IEC 61347-2-3:2000, first edition, with Canadian deviations)



Reaffirmed Standards (cont'd)

CSA has reaffirmed its endorsement of the following IEC standards:

- **IEC 60343 (1991)**
Recommended test methods for determining the relative resistance of insulating materials to breakdown by surface discharges
- **IEC 60371-1 (2003)**
Specification for insulating materials based on mica — Part 1: Definitions and general requirements
- **IEC 60454-1 (1992)**
Specifications for pressure-sensitive adhesive tapes for electrical purposes — Part 1: General requirements
- **IEC 60454-3-1 (2001)**
Pressure-sensitive adhesive tapes for electrical purposes — Part 3: Specifications for individual materials — Sheet 1: PVC film tapes with pressure-sensitive adhesive
- **IEC 60544-1 (1994)**
Guide for determining the effects of ionizing radiation on insulating materials — Part 1: Radiation interaction and dosimetry
- **IEC 60544-2 (1991)**
Guide for determining the effects of ionizing radiation on insulating materials — Part 2: Procedures for irradiation and test
- **IEC 60626-1 (1995)**
Specification for combined flexible materials for electrical insulation — Part 1: Definitions and general requirements
- **IEC 60626-2 (1995)**
Specification for combined flexible materials for electrical insulation — Part 2: Methods of test
- **IEC 60684-1 (2003)**
Flexible insulating sleeving — Part 1: Definitions and general requirements
- **IEC 60684-3-209 (2003)**
Flexible insulating sleeving — Part 3: Specifications for individual types of sleeving — Sheet 209: Heat-shrinkable polyolefin sleeving, general purpose, flame retarded, shrink ratio 2:1
- **IEC 60684-3-406 to 408 (2003)**
Flexible insulating sleeving — Part 3: Specifications for individual types of sleeving — Sheets 406 to 408: Glass textile sleeving with PVC coating
- **IEC 60819-1 (1995)**
Specification for non-cellulosic papers for electrical purposes — Part 1: Definitions and general requirements

Reaffirmed Standards (cont'd)

- **IEC 60893-1 (2003)**

Industrial rigid laminated sheets based on thermosetting resins for electrical purposes — Part 1: Definitions, designations and general requirements

Certification and Testing (CSA International)

Informs Notices

Date	Subject	Title
July 18, 2008	Introduction of CSA component acceptance service for power distribution equipment sub-assemblies covered in CSA standards C22.2 No.s 27, 29, 31, 190, 201, and 244.	Component Acceptance Service No. 44
July 31, 2008	Publication CSA standard CAN/CSA-C22.2 No. 71.2-2008, <i>Electric Bench Tools</i> . (Supersedes Electrical Tools No. 21.)	Electrical Tools No. 21A

Certification Notices

Please note: ► Notices marked with an arrowhead are new in this issue.

Effective Date	Subject	Title
December 31, 2008	Publication of the third edition of CSA standard C22.2 No. 130-03, <i>Requirements for Electrical Resistance Heating Cables and Heating Device Sets</i> .	Wiring Devices No. 37
December 31, 2008	Publication of CSA standard C22.2 No. 256-05, <i>Direct Plug-In Nightlights</i> .	Lighting Products No. 49
January 30, 2009	Publication of CSA standard C22.2 No. 45.1-07, <i>Electrical Rigid Metal Conduit — Steel</i> (tri-national standard with UL 6 and NMX-J-534-ANCE-2007). (Supersedes Conduit No. 14.)	Conduit No. 21
January 30, 2009	Publication of CSA standard C22.2 No. 83.1-07, <i>Electrical Metallic Tubing — Steel</i> (tri-national standard with UL 797 and NMX-J-536-ANCE-2007). (Supersedes Raceways and Fittings No. 5.)	Raceways and Fittings No. 6
January 31, 2009	Publication of Update No. 1 to CSA standard C22.2 No. 18.3-04, <i>Conduit Tubing and Cable Fittings</i> (tri-national standard with NMX-J-017-ANCE and UL514B).	Wiring Products No. 10

**Certification Notices (cont'd)**

Effective Date	Subject	Title
February 27, 2009	New and revised requirements in standard UL 588, <i>Seasonal and Holiday Decorative Products, 18th edition.</i>	Lighting Products No. 50
▶ April 30, 2009	Publication of Update No. 4 to CSA standard C22.2 No. 112-97 (R2007), <i>Electric Clothes Dryers</i> (bi-national standard with UL 2158). Update contains revisions for installation instructions.	Clothes Dryer Equipment No. 4
July 1, 2009	Publication of CSA standard CAN/CSA-E60691:08, <i>Thermal-Links — Requirements and Application Guide</i> (Adopted CEI/IEC 60691:2002, third edition, including Amendment 1:2006, with Canadian deviations)	Signal Sensing and Controls No. 5
December 15, 2009	Publication of Update No. 2 to CSA standard C22.2 No. 227.2.1-04, <i>Liquid-Tight Flexible Nonmetallic Conduit</i> (bi-national standard with UL 1660).	Conduit No. 22
December 31, 2009	Publication of Update No. 2 to CSA standard C22.2 No. 130-03, <i>Requirements for Electrical Resistance Heating Cables and Heating Device Sets.</i> (Supersedes Wiring Devices No. 37.)	Wiring Devices No. 37A
January 1, 2010	Publication of the second edition of CSA standard CAN/CSA-C681-06, <i>Performance of Self-Ballasted Compact Fluorescent lamps and Ballasted Adapters.</i>	Verification Service Announcement No. 35
March 10, 2010	Publication of Update No. 2 to CSA standard C22.2 No. 243-01, <i>Vacuum Cleaners, Blower Cleaners and Household Floor Finishing Machines</i> (bi-national standard with UL 1017).	Vacuum Cleaners and Blower Cleaners No. 9
March 31, 2010	Publication of Amendments to UL 1059, <i>Terminal Blocks.</i> (Supersedes Wiring Devices No. 40.)	Wiring Devices No. 40A
May 31, 2010	Publication of CSA standard C68.10-08, <i>Shielded Power Cable for Commercial and Industrial Applications, 5-46 KV.</i>	Wire and Cable No. 139
May 31, 2010	Extension of effective date for CSA standard CAN/CSA-C22.2 No. 42.1-00, <i>Cover Plates for Flush-Mounted Wiring Devices</i> (bi-national standard with UL 514D).	Wiring Devices No. 39A

Certification Notices (cont'd)

Effective Date	Subject	Title
June 1, 2010	Publication of CSA standards CAN/CSA-C22.2 No. 60745-1-04 and CAN/CSA-C22.2 No. 60745-2-04 (bi-national standards with UL 60745-1 and associated Part 2 series standards).	Electrical Tools No. 15
December 1, 2010	Publication of CSA standard CAN/CSA-C22.2 No. 60950-1-07 (bi-national standard with UL 60950-1).	Information Technology and Electrical Business Equipment No. 16
January 1, 2012	Publication of CAN/CSA-E61131-2:06, <i>Programmable controllers — Part 2: Equipment requirements and tests</i> (Adopted IEC 61131-2:2003, 2nd edition, with Canadian deviations).	Programmable Controllers No. 1
May 1, 2012 (Canada)	Publication of bi-national standard CSA C22.2 No. 66-06 Series and UL 5085 Series, <i>Low Voltage Transformers</i> .	Transformers No. 6
August 21, 2016	Publication of CAN/CSA-C22.2 No. 60335-2-24-06, <i>Safety Requirements for Household and Similar Electrical Appliances, Part 2: Particular Requirements for Refrigerating Appliances, Ice Cream Appliances and Ice Makers</i> (tri-national standard with UL 60335-2-24 and NMX-J-521/2-24-ANCE-2006. Adopted IEC 60335-2-24:2002, sixth edition, with national deviations).	Household Refrigerators and Freezers No. 3