Completed Projects / Projets terminés

New Standards — New Editions — Special Publications

C22.2 No. 188-04, 2nd edition
Splicing Wire Connectors (Tri-national standard with NMX-J-548-ANCE-2004 and UL486C)..... $245

This standard applies to hand-applied or tool-applied splicing wire and cable connectors intended for use with all alloys of copper or aluminum conductors, or both, in accordance with the *Canadian Electrical Code, Part I*, the *National Electrical Code*, or the *Standard for Electrical Installations*, as follows:

- connectors intended to hold two or more conductors
- connectors intended for use in appliances and equipment that comply with the requirements for such appliances and equipment
- connectors intended for use with 6 AWG (13.3 mm^2) or smaller conductors
- uninsulated connectors that are used in circuits rated 8 000 V and less.

Nouvelles normes — Nouvelles éditions — Publications spéciales publiées en français

CAN/CSA-C22.2 n° 47-M90, 4e édition
Transformateurs refroidis à l'air (type sec) ..... 50 $

Cette norme s'applique aux transformateurs monophasés et polyphasés de type sec qui alimentent des circuits de puissance, de chauffage et d'éclairage et qui sont conçus pour être installés et utilisés conformément au *Code canadien de l'électricité, Première partie*.

Cette norme s'applique aux transformateurs à enroulements multiples et aux autotransformateurs d'au plus 46 kV.

C22.2 n° 182.1-02, 2e édition
Fiches, prises et connecteurs de câble à contacts cylindriques (norme binationale avec UL 1682, deuxième édition) ..... 225 $

Cette norme s'applique aux fiches, aux prises, aux entrées d'alimentation et aux connecteurs à contacts cylindriques dont les caractéristiques nominales sont d'au plus 800 A et d'au plus 600 V c.a. ou c.c., et qui peuvent comporter un maximum de deux contacts auxiliaires. Ces dispositifs sont destinés à transmettre le courant à partir de circuits de dérivation, ou à être branchés directement à un circuit de dérivation, conformément au *Code canadien de l'électricité, Première partie* (CCE) et au *National Electrical Code* (ANSI/NFPA 70), au moyen de conducteurs en cuivre, dans des emplacements non dangereux situés à l'intérieur ou à l'extérieur. Au Canada, les bornes d'un dispositif destiné à recevoir des conducteurs en aluminium doivent également satisfaire à la norme C22.2 n° 65, *Connecteurs de fils*.

Amendments

C22.2 No. 100-04
Motors and Generators

Revision of the Contents, the Subcommittee List, and Clauses 11.2.1, 11.2.7, and 11.3.3. Addition of Clause 11.2.8.

Modifications publiées en français

CAN/CSA-C22.2 n° 47-M90 (C2001)
Transformateurs refroidis à l'air (type sec)

Des modifications ont été apportées à la table des matières, aux articles 1.3, 2.1, 3.2.1, 3.2.2, 4.2.4.1, 4.2.4.1A, 4.2.7, 5.1 et 5.5. Les articles 4.2.8, 5.6, 5.7, 6.4 et la figure 1 ont été ajoutés.

Endorsed Standards

IEC 60371-1 (2003-04)
Specification for Insulating Materials Based on Mica–Part 1: Definitions and General Requirements

IEC 60454-3-1 (2002-12)
Pressure-Sensitive Adhesive Tapes for Electrical Purposes–Part 3: Specifications for Individual Materials–Sheet 1: PVC Film Tapes with Pressure-Sensitive Adhesive

IEC 60626-3 (2002-05)
Combined Flexible Materials for Electrical Insulation–Part 3: Specifications for Individual Materials

IEC 60684-1 (2003-04)
Flexible Insulating Sleeving–Part 1: Definitions and General Requirements

IEC 60684-2-am1 (2003-04)
Amendment 1–Flexible Insulating Sleeving–Part 2: Methods of Test

IEC 60684-3-209 (2003-03)
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 (2003-07)
Flexible Insulating Sleeving–Part 3: Specifications for Individual Types of Sleeving–Sheets 406 to 408: Glass Textile Sleeving with PVC Coating

IEC 60893-1 (2003-06)
Industrial Rigid Laminated Sheets Based on Thermosetting Resins for Electrical Purposes–Part 1: Definitions, Designations and General Requirements

Reaffirmed Standards

C22.2 No. 3-M1988 (R2004)
Electrical Features of Fuel-Burning Equipment

C22.2 No. 26-1952 (R2004)
Construction and Test of Wireways, Auxiliary Gutters, and Associated Fittings

C22.2 No. 34-M1987 (R2004)
Electrode Receptacles, Fittings, and Connectors for Gas Tubes

C22.2 No. 35-M1987 (R2004)
Extra-Low-Voltage Control Circuit Cables, Low-Energy Control Cable

C22.2 No. 37-M1989 (R2004)
Christmas Tree and Other Decorative Lighting Outfits

C22.2 No. 77-95 (R2004)
Motors with Inherent Overheating Protection

C22.2 No. 82-1969 (R2004)
Tubular Support Members and Associated Fittings for Domestic and Commercial Service Masts

C22.2 No. 113-M1984 (R2004)
Fans and Ventilators

CAN/CSA-C22.2 No. 131-M89 (R2004)
Type TECK 90 Cable

C22.2 No. 140.3-M1987 (R2004)
Refrigerant-Containing Components for Use in Electrical Equipment

C22.2 No. 145-M1986 (R2004)
Motors and Generators for Use in Hazardous Locations

C22.2 No. 156-M1987 (R2004)
Solid-State Speed Controls

C22.2 No. 184-M1988 (R2004)
Solid-State Lighting Controls

CAN/CSA-C22.2 No. 191-M89 (R2004)
Engine Heaters and Battery Warmers

C22.2 No. 193-M1983 (R2004)
High-Voltage Full-Load Interrupter Switches

CAN/CSA-C22.2 No. 199-M89 (R2004)
Combustion Safety Controls and Solid-State Igniters for Gas- and Oil-Burning Equipment

Reaffirmed Standards (cont'd)

C22.2 No. 201-M1984 (R2004)
Metal-Enclosed High Voltage Busways

C22.2 No. 205-M1983 (R2004)
Signal Equipment

CAN/CSA-C22.2 No. 224-M89 (R2004)
Radiant Heaters and Infrared and Ultraviolet Lamp Assemblies for Cosmetic or Hygienic Purposes in Nonmedical Applications

CAN/CSA-C22.2 No. 233-M89 (R2004)
Cords and Cord Sets for Communication Systems

CAN/CSA-C22.2 No. 236-95 (R2004)
Heating and Cooling Equipment

CAN/CSA-C22.2 No. 745-2-12-95 (R2004)
Safety of Portable Electric Tools–Part 2: Particular Requirements for Concrete Vibrators
(Bi-national standard with UL 745-2-12)

CAN/CSA-C22.2 No. 745-2-30-95 (R2004)
Safety of Portable Electric Tools–Part 2: Particular Requirements for Staplers
(Bi-national standard with UL 745-2-30)

CAN/CSA-C22.2 No. 745-2-31-95 (R2004)
Safety of Portable Electric Tools–Part 2: Particular Requirements for Diamond Core Drills
(Bi-national standard with UL 745-2-31)

CAN/CSA-C22.2 No. 745-2-32-95 (R2004)
Safety of Portable Electric Tools–Part 2: Particular Requirements for Magnetic Drill Presses
(Bi-national standard with UL 745-2-32)

CAN/CSA-C22.2 No. 745-2-33-95 (R2004)
Safety of Portable Electric Tools–Part 2: Particular Requirements for Portable Bandsaws
(Bi-national standard with UL 745-2-33)

CAN/CSA-C22.2 No. 745-2-34-95 (R2004)
Safety of Portable Electric Tools–Part 2: Particular Requirements for Strapping Tools
(Bi-national standard with UL 745-2-34)

CAN/CSA-C22.2 No. 745-2-35-95 (R2004)
Safety of Portable Electric Tools–Part 2: Particular Requirements for Drain Cleaners
(Bi-national standard with UL 745-2-35)

CAN/CSA-C22.2 No. 745-2-36-95 (R2004)
Safety of Portable Electric Tools–Part 2: Particular Requirements for Hand Motor Tools
(Bi-national standard with UL 745-2-36)

Reaffirmed Standards (cont'd)

CAN/CSA-C22.2 No. 745-2-37-95 (R2004)
Safety of Portable Electric Tools–Part 2: Particular Requirements for Plate Jointers
(Bi-national standard with UL 745-2-37)

CAN/CSA-C22.2 No. 745-4-3-95 (R2004)
Safety of Portable Battery-Operated Tools–Part 4: Particular Requirements for Grinders, Polishers and Disk-Type Sanders (Bi-national standard with UL 745-4-3)

CAN/CSA-C22.2 No. 745-4-35-95 (R2004)
Safety of Portable Electric Tools–Part 2: Safety of Portable Battery-Operated Tools–Part 4: Particular Requirement for Drain Cleaners (Bi-national standard with UL 745-4-35)

CAN/CSA-C22.2 No. 745-4-36-95 (R2004)
Safety of Portable Electric Tools–Part 2: Safety of Portable Battery-Operated Tools–Part 4: Particular Requirement for Hand Motor Tools (Bi-national standard with UL 745-4-36)

CAN/CSA-C22.2 No. 1010.2.041-96 (R2004)
Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use Part 2–041: Particular Requirements for Autoclaves Using Steam for the Treatment of Medical Materials, and for Laboratory Processes (Adopted IEC 1010-2-041:1995, 1st edition)

CAN/CSA-C88-M90 (R2004)
Power Transformers and Reactors

Withdrawn Standards

CSA has withdrawn its endorsement of the following IEC standard:

- **IEC 60795 (1984)**
  Test Method for Evaluating Thermal Endurance of Flexible Sheet Materials Using the Wrapped Tube Method

Under Development

Drafts for Public Review

Please note: Public comments about draft standards, proposed amendments, proposed adoptions and proposed endorsements listed in this issue are due by January 3, 2005.

Draft Standards

To receive copies of the following draft standard, or to offer comments, contact Annie Pereira at 416-747-4094 or annie.pereira@csa.ca:

- **C22.2 No. 253, 1st edition**
  Alternating Current Contactors and Contactor-Based Controllers Rated 1501 to 7200 V

Proposed Amendments

To receive copies of the following proposed amendment, or to offer comments, contact Annie Pereira at 416-747-4094 or annie.pereira@csa.ca:

- **C22.2 No. 218.2-93 (R2004)**
  Hydromassage Bathtub Appliances

  Proposed revision of various clauses.

Proposed Adoptions

For more information about the proposed adoption of the following IEC standard, contact Michael Henville at 416-747-2227 or michael.henville@csa.ca:

- **IEC 60947-5-1, 2nd edition**
  Low-Voltage Switchgear and Controlgear–Part 5: Control Circuit Devices and Switching Elements–Electromechanical Control Circuit Devices

Proposed Withdrawal of Standards

For more information about the proposed withdrawal of the following standard, contact Tim Pope at 416-747-2572 or tim.pope@csa.ca:

- **CAN/CSA-E79-1A-95 (R1999)**
  1st Supplement to CAN/CSA-E79-1, "Electrical Apparatus for Explosive Gas Atmospheres–Part 1: Construction and Test of Flameproof Enclosures of Electrical Apparatus–Appendix D: Method of Test for Ascertainment of Maximum Experimental Safe Gap"
  (Adopted IEC 79-1A:1975, Edition 3.0, without modification)

For more information about the proposed withdrawal of the following standard, contact John O'Neill at 416-747-4042 or john.oneill@csa.ca:

- **CAN/CSA-C49.1-M87 (R2003)**
  Round Wire, Concentric Lay, Overhead Electrical Conductors

Certification and Testing (CSA International)

Informs Notices

Date	Subject	Title
September 3, 2004	Publication of Technical Information Letter No. D-30, covering interim certification requirements for closed transition transfer switches.	Switches No. 8
September 3, 2004	Publication of CSA standard C22.2 No. 262-04, *Optical Fiber Cable and Communication Cable Raceway Systems.*	Wire Products No. 9
September 3, 2004	Publication of CSA standard C22.2 No. 96.1-04, *Mine Power Feeder Cables*.	Wire and Cable No. 113

Certification Notices

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

Effective Date	Subject	Title
▶ November 1, 2004	Publication of Technical Information Letter No. B-74, covering interim certification requirements for energy efficiency verification of internally lighted exit signs. Technical Information Letter B-74 was developed to ensure compliance with the Government of Canada energy efficiency regulation concerning exit signs, effective November 1, 2004.	Verification Service Announcement No. 22
▶ November 1, 2004	Publication of Technical Information Letter No. B-76, covering interim certification requirements for energy efficiency verification of AC powered exit signs. These exit signs are CSA Certified to CSA standard C22.2 No. 9.0-96, *General Requirements for Luminaires.*	Lighting Products No. 45
▶ November 1, 2004	Publication of Technical Information Letter No. B-75, covering interim certification requirements for energy efficiency verification of AC/DC powered exit signs. These exit signs are CSA Certified to CSA standard C22.2 No. 141-02, *Unit Equipment for Emergency Lighting.*	Emergency Lighting Products No. 2
November 15, 2004	Publication of the eighth edition of CSA standard C22.2 No. 75-03, *Thermoplastic Insulated Wires and Cables.*	Wire and Cable No. 105

Certification Notices (cont'd)

Effective Date	Subject	Title
December 1, 2004	Publication of Technical Information Letter No. B-69, covering medium screw-base and candelabra-screw base lamps incorporating light-emitting diodes or miniature extra-low-voltage incandescent lamps connected in series, as the light source.	Lighting Products No. 43
December 15, 2004	Publication of Technical Information Letter No. J-33, covering interim certification requirements for expandable sleeving rated at 90 °C, 105 °C, 125 °C, 150 °C and 200 °C for bundling of insulated wires and cables.	Wire and Cable No. 110
January 1, 2005	Publication of Technical Information Letter No. B-71, announcing new requirements for neon transformers and power supplies.	Lighting Products No. 42
January 1, 2005	Extension of effective date for the new marking requirements in Clause 17.2.2 of CSA standard C22.2 No. 250.0-00/UL 1598, *Luminaires*, to show catalog number, model number, series, or other similar marking. (Supplemental to *Lighting Products Notice No. 35*.)	Lighting Products No. 35A
February 16, 2005	Publication of the first edition of CSA standard C22.2 No. 18.4-04, *Hardware for the Support of Conduit, Tubing, and Cable* (bi-national standard with UL 2239).	Wiring Devices No. 29
March 1, 2005	Publication of the first edition of CSA standard C22.2 No. 227.2.1-04, *Liquid-Tight Flexible Nonmetallic Conduit* (bi-national standard with UL 1660).	Conduit No. 13
March 1, 2005	Publication of the first edition of CSA standard C22.2 No. 18.3, *Conduit, Tubing and Cable Fittings* (tri-national standard with ANCE NMX-J-017 and UL 514B).	Wiring Devices No. 28
▶ March 31, 2005	Publication of amendment as Update No. 4 to CSA standard C22.2 No. 64-M91, *Household Cooking and Liquid-Heating Appliances.*	Household Cooking and Liquid Heating Appliances No. 14

Certification Notices (conf'd)

Effective Date	Subject	Title
April 1, 2005	Publication of the eighth edition of CSA standard C22.2 No. 31-04, *Switchgear Assemblies*. This edition includes new requirements to add provision for: • lock-out features of high-voltage switches and circuit-breakers • lock-out of low-voltage switches and circuit-breakers • padlocking of automatic shutters in metal-clad switchgear with removable breakers.	Switchgear Assemblies No. 4
May 24, 2005	Publication of amendments to CSA standard C22.2 No. 112-97, *Electric Clothes Dryers* (bi-national with UL 2158). The amendment clarifies the marking requirements for a pressure wire connector intended for connection of an equipment-grounding conductor.	Appliances No. 3
▶ August 1, 2005	Publication of the fifth edition of CSA standard C22.2 No. 56-04, *Flexible Metal Conduit and Liquid-Tight Flexible Metal Conduit.*	Wiring Devices No. 30
September 30, 2005	Publication of the second edition of CSA standard C22.2 No. 235*, Supplementary Protectors*.	Power Distribution Equipment No. 1
▶ November 1, 2005	Publication of the sixth edition of CSA standard C22.2 No. 100-04, *Motors and Generators*.	Motors and Generators No. 4
November 15, 2005	Publication of the fourth edition of CSA standard C22.2 No. 65, *Wire Connectors.*	Wiring Devices No. 25
March 1, 2007	Publication of CAN/CSA-C22.2 No. 60065:03, *Audio, Video and Similar Electronic Apparatus–Safety Requirements* (Adopted CEI/IEC 60065:2001, with Canadian deviations).	Audio and Video Equipment No. 16
January 1, 2010	Changes to the withdrawal dates of standards C22.2 No. 1-98, UL 469, UL 813 and UL 1492.	Audio and Video Equipment No. 16
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. These are adoptions of the identically numbered IEC standards.).	Electrical Tools No. 15