

UL 498A

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Current Taps and Adapters





Underwriters Laboratories Inc. (UL)
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UL Standard for Safety for Current Taps and Adapters, UL 498A

First Edition, Dated December 17, 1999

Revisions: This Standard contains revisions through and including April 30, 2003.

SUMMARY OF TOPICS

Revision of Noninterchangeability Obstruction Requirements

UL Standards for Safety are developed and maintained in the Standard Generalized Markup Language (SGML). SGML -- an international standard (ISO 8879-1986) -- is a descriptive markup language that describes a document's structure and purpose, rather than its physical appearance on a page. Due to formatting differences resulting from the use of UL's new electronic publishing system, please note that additional pages (on which no requirements have been changed) may be included in revision pages due to relocation of existing text and reformatting of the Standard.

Text that has been changed in any manner is marked with a vertical line in the margin. Changes in requirements are marked with a vertical line in the margin and are followed by an effective date note indicating the date of publication or the date on which the changed requirement becomes effective.

The following table lists the future effective dates with the corresponding item.

Future Effective Dates	References
April 1, 2009	Section 37, Sub-sections 7.8, 7.9, 8.3, 15.6, 15.7, Paragraphs 7.1.1, 7.6.1, 8.1.1, 8.2.1, 8.2.2, 8.2.3, 8.2.4, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, 9.9, 9.10, 9.11, 9.12, 9.14, 9.15, 9.16, 11.3.1, 11.4.1, 30.14, 31.8, 33.4, Tables 9.1, 18.1, Figures 9.1, 11.3

The new requirements are substantially in accordance with UL's Bulletin(s) on this subject dated December 16, 2002. The bulletin(s) is now obsolete and may be discarded.

The revisions dated April 30, 2003 include a reprinted title page (page1) for this Standard.

As indicated on the title page (page 1), this UL Standard for Safety is an American National Standard. Attention is directed to the note on the title page of this Standard outlining the procedures to be followed to retain the approved text of this ANSI/UL Standard.

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New product submittals made prior to a specified future effective date will be judged under all of the requirements in this Standard including those requirements with a specified future effective date, unless the applicant specifically requests that the product be judged under the current requirements. However, if the applicant elects this option, it should be noted that compliance with all the requirements in this Standard will be required as a condition of continued Listing, Recognition, and Follow-Up Services after the effective date, and understanding of this should be signified in writing.

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This Standard consists of pages dated as shown in the following checklist:

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1-6	April 30, 2003
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10-12	April 30, 2003
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26-32	October 26, 2001
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1

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Current Taps and Adapters

First Edition

December 17, 1999

The most recent designation of ANSI/UL 498A as an American National Standard (ANSI) occurred on March 6, 2003.

This ANSI/UL Standard for Safety, which consists of the First Edition with revisions through April 30, 2003, is under continuous maintenance, whereby each revision is ANSI approved upon publication. Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Written comments are to be sent to the UL-MEL Standards Department, 1285 Walt Whitman Road, Melville, NY 11747.

An effective date included as a note immediately following certain requirements is one established by Underwriters Laboratories Inc.

Revisions of this Standard will be made by issuing revised or additional pages bearing their date of issue. A UL Standard is current only if it incorporates the most recently adopted revisions, all of which are itemized on the transmittal notice that accompanies the latest set of revised requirements.

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FOREWORD

A. This Standard contains basic requirements for products covered by Underwriters Laboratories Inc. (UL) under its Follow-Up Service for this category within the limitations given below and in the Scope section of this Standard. These requirements are based upon sound engineering principles, research, records of tests and field experience, and an appreciation of the problems of manufacture, installation, and use derived from consultation with and information obtained from manufacturers, users, inspection authorities, and others having specialized experience. They are subject to revision as further experience and investigation may show is necessary or desirable.

B. The observance of the requirements of this Standard by a manufacturer is one of the conditions of the continued coverage of the manufacturer's product.

C. A product which complies with the text of this Standard will not necessarily be judged to comply with the Standard if, when examined and tested, it is found to have other features which impair the level of safety contemplated by these requirements.

D. A product that contains features, characteristics, components, materials, or systems new or different from those covered by the requirements in this Standard, and that involves a risk of fire or of electric shock or injury to persons shall be evaluated using appropriate additional component and end-product requirements to maintain the level of safety as originally anticipated by the intent of this Standard. A product whose features, characteristics, components, materials, or systems conflict with specific requirements or provisions of this Standard does not comply with this Standard. Revision of requirements shall be proposed and adopted in conformance with the methods employed for development, revision, and implementation of this Standard.

E. UL, in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. The opinions and findings of UL represent its professional judgment given with due consideration to the necessary limitations of practical operation and state of the art at the time the Standard is processed. UL shall not be responsible to anyone for the use of or reliance upon this Standard by anyone. UL shall not incur any obligation or liability for damages, including consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon this Standard.

F. Many tests required by the Standards of UL are inherently hazardous and adequate safeguards for personnel and property shall be employed in conducting such tests.

1 Scope

1.1 These requirements cover current taps and adapters for use in accordance with the National Electrical Code, ANSI/NFPA-70.

1.2 These requirements do not cover current taps or adapters rated at more than 200 A or for more than 600 V. See 6.1.

1.3 These requirements do not directly apply to current taps wired to flexible cord or lampholder adapters but supplement the applicable standards. Lampholder adapters are covered in the Standard for Edison-Base Lampholders, UL 496. Current taps wired to flexible cord are covered in the Standard for Attachment Plugs and Receptacles, UL 498.

1.4 These requirements do not cover cord-connected, relocatable power taps intended only for indoor use as a temporary extension of a grounding, alternating-current branch circuit for general use, and which are covered by the Standard for Relocatable Power Taps, UL 1363.

1.5 These requirements do not cover the current or voltage conversion circuitry capable of being used in travel adapters.

1.6 As used in this Standard, the term device is intended to refer to both current taps and adapters unless specifically stated otherwise.

1.7 *Deleted October 26, 2001*

2 References

2.1 Any undated reference to a code or standard appearing in the requirements of this standard shall be interpreted as referring to the latest edition of that code or standard.

2.2 The referenced standards include the following:

UL Standards

UL 94 – Tests for Flammability of Plastic Materials for Parts in Devices and Appliances

UL 248-14 – Low-Voltage Fuses - Part 14: Supplemental Fuses

UL 489 – Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures

UL 497A – Secondary Protectors for Communications Circuits

UL 512 – Fuseholders

UL 746A – Polymeric Materials – Short Term Property Evaluations

UL 746B – Polymeric Materials – Long Term Property Evaluations

UL 746C – Polymeric Materials – Use in Electrical Equipment Evaluations

UL 746D – Polymeric Materials – Fabricated Parts

UL 1077 – Supplementary Protectors for Use in Electrical Equipment

UL 1283 – Electromagnetic Interference Filters

UL 1449 – Transient Voltage Surge Suppressors

UL 1659 – Attachment Plug Blades for Use in Cord Sets and Power-Supply Cords

UL 1681 – Wiring Device Configurations

ANSI Standards

ANSI/NEMA WD6, Wiring Devices – Dimensional Specifications

ANSI/NFPA 70, National Electrical Code

ASTM Standards

ASTM E 28-92 – Test Method for Softening Point by Ring-and-Ball Apparatus

ASTM D 570-81(1988) – Test Method for Water Absorption of Plastics

2.2 revised October 26, 2001

2.3 The NEMA configurations of various attachment plug and receptacle combinations referenced in this Standard are in accordance with Wiring Devices – Dimensional Specifications, ANSI/NEMA WD6. The Figures referenced as Section C3 contain non-NEMA configurations and are found in the Standard for Wiring Device Configurations, UL 1681.

2.3 revised October 26, 2001

3 Glossary

3.1 For the purposes of this Standard, the following definitions apply.

3.2 ADAPTER – A male and female contact device that adapts one blade or slot configuration to another (including a grounding adapter for a nongrounding receptacle).

3.3 ADAPTER, TRAVEL – A device that adapts the attachment plug of a portable appliance to permit its use on an electrical system that employs a male blade or pin configuration other than those found in Wiring Devices – Dimensional Specifications, ANSI/NEMA WD6 or the requirements for wiring device configurations, UL 1681. This includes adapters employing 2-pole, 2-wire and 2-pole, 3-wire blade or slot configurations rated 15 A, 125 V (1-15, 5-15) and blade or slot configurations other than found in ANSI/NEMA WD6 or UL 1681. See also 1.5.

3.4 CONFIGURATION, LOCKING – A device having a configuration that requires a motion other than a straight push or pull to connect or separate it when used with its mating part.

3.5 CONFIGURATION, MULTI- – An outlet device configuration, commonly used in travel adapters, that is designed to mate with more than one attachment plug configuration.

3.6 CURRENT TAP – A male and female contact device that, when connected to an outlet receptacle, provides multiple outlet configurations.

3.7 ELECTRICAL (FUNCTIONAL) INSULATION – The insulation necessary for the proper functioning of the product and for basic protection against electrical shock. This includes all parts relied upon to support live parts, all internal barriers necessary to maintain spacings, and the outlet face portion of all female devices.

3.8 ENCLOSURE, ELECTRICAL – That part of the device that renders inaccessible all or any parts of the device that are otherwise capable of presenting a risk of electric shock, retards propagation of flame initiated by electrical disturbances occurring within, or both.

3.9 GROUNDING DEVICE – A device having a 5-15, 5-20, 5-30, 5-50, 6-15, 6-20, 6-30, 6-50, 7-15, 7-20, 7-30, 7-50, 14-15, 14-20, 14-30, 14-50, 14-60, 15-15, 15-20, 15-30, 15-50, 15-60, L5-15, L5-20, L5-30, L6-15, L6-20, L6-30, L7-15, L7-20, L7-30, L8-20, L8-30, L9-20, L9-30, L14-20, L14-30, L15-20, L15-30, L16-20, L16-30, L17-30, L21-20, L21-30, L22-20, L22-30, L23-20, L23-30, TT-R, or ML-2R configuration, the configuration illustrated in Figure C3.8, or a nonstandard configuration that employs one blade, pin, or contact exclusively for grounding.

3.9 revised October 26, 2001

3.10 GROUNDING PATH – An electrically continuous path between the grounding pin, blade, or tab, and the grounding contact.

3.11 POLARIZED DEVICE – A device constructed for connection to a mating device only in the position that connects related poles of an electrical circuit.

4 Components

4.1 Except as indicated in 3.2, a component of a product covered by this standard shall comply with the requirements for that component. See Appendix A for a list of standards covering components used in the products covered by this standard.

4.1 revised October 26, 2001

4.2 A component is not required to comply with a specific requirement that:

a) Involves a feature or characteristic not required in the application of the component in the product covered by this standard, or

b) Is superseded by a requirement in this standard.

4.2 revised October 26, 2001

4.3 A component shall be used in accordance with its rating established for the intended conditions of use.

4.3 revised October 26, 2001

4.4 Specific components are incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions.

4.4 revised October 26, 2001

5 Units of Measurement

5.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

5.1 revised October 26, 2001

6 Ratings

6.1 The ratings mentioned throughout this Standard, including those mentioned in Table 6.1, represent maximum ampacity and maximum operating potential in volts. A device is considered to be for use on either alternating or direct current unless the rating includes the letters "AC" to restrict the use to alternating current.

6.1 revised April 30, 2003

6.2 A device shall be rated in amperes and volts. When the blade configuration of the device is one of the standard configurations in accordance with Wiring Devices – Dimensional Specifications, ANSI/NEMA WD6, the device shall be given only the rating shown in the configuration. Otherwise, the device shall be given one or more of the ratings in Table 6.1. See 6.1 and 6.3.

Exception: No. 1: Devices having a lower current rating than that shown in the configuration meet the intent of the requirement when provided with supplementary overcurrent protection of fuses.

Exception: No. 2: Devices rated AC Only meet the intent of the requirement when marked in accordance with 7.3.1.

Table 6.1
Ratings of general-use devices

Table 6.1 revised April 30, 2003

Ratings
10 A, 250 V and 15A, 125 V
15 A, 125 V
15 A, 250 V
15 A, 277 V AC
20 A, 125 V
20 A, 250 V
20 A, 277 V AC
30 A, 250 V
50 A, 250 V
60 A, 250 V
75 A, 250 V
75 A, 480 V AC
75 A, 600 V AC
75 A, 600 V
100 A, 250 V
100 A, 480 V AC
100 A, 600 V AC
100 A, 600 V
200 A, 250 V
200 A, 480 V AC
200 A, 600 V AC
200 A, 600 V

6.3 When a device includes a switch that controls an outlet, the overall rating of the device shall not be higher than the rating of the switch.

6.4 A device shall be rated for disconnecting use only, not for current rupturing, when the potential rating is higher than 250 V DC. A device rated for disconnecting use only, not for current rupturing, meets the intent of the requirement when the current rating is greater than 60 A AC, DC, or AC-DC. See 7.5.1.

6.4 revised April 30, 2003

6.5 A travel adapter shall be rated with the ratings associated with both the male and female configurations provided on the device.

6.6 A device with a nonstandard grounding configuration shall have a single ampere and single voltage rating.

7 Markings

7.1 Company name, catalog designation, electrical rating

7.1.1 A device shall be legibly and permanently marked with:

- a) The company's name, trade name, or trademark or other descriptive marking by which the organization responsible for the device is able to be identified.
- b) The electrical rating. See also 7.3.1.
- c) The catalog number or an equivalent designation, where practicable.

Exception: The catalog number is not prohibited from appearing on the unit container when the product is too small, or where the legibility is difficult to attain, or where several catalog numbers use common parts.

- d) The markings specified in 7.2 – 7.9 as applicable.

Revised 7.1.1 effective April 1, 2009

7.2 Multiple factories

7.2.1 When a manufacturer produces or assembles devices at more than one factory, each finished device shall have a distinctive marking on the device, not prohibited from being in code, by which the device is able to be identified as the product of a particular factory.

7.3 AC only devices

7.3.1 A device that is intended for use on alternating current circuits only shall be identified as such by one of the following means as a part of the electrical rating:

- a) The letters "AC";
- b) The words "AC Only";
- c) A frequency marking (for example, "60 Hertz");
- d) A phase marking such as " ϕ ", the letters "ph" or "PH", or the word "phase." For multiphase devices that are intended for use only on a Wye system, the marking shall also include the word "Wye", or the letter "Y", or
- e) The symbol $\sim$.

7.4 Circuit limitations

7.4.1 A device intended to accommodate fuses, other than a plug or cartridge fuse intended for branch circuit protection, shall be marked "Use only with a ____ volt fuse." The potential to be used in the marking shall be the potential rating of the fuse for which the device is intended.

7.4.2 For non-permanent adapters, when the male configuration amperage rating is less than the female configuration amperage rating, the device shall be marked "Caution" and with the following or equivalent statement, "To avoid overloading the receptacle and branch circuit, limit use to ____ amperes maximum." The ampere rating to be used in the marking shall be the ampere rating of the male configuration.

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7.5 Disconnecting use only

7.5.1 A device intended exclusively for disconnecting use shall be marked with one of the following or equivalent statements, "For disconnecting use only" or "Not for current rupturing."

7.6 Adapters

7.6.1 An adapter having a grounding tab, lug, or similar device described in 16.1 – 16.3 shall be marked with the word "CAUTION," and the following or equivalent statement, "Risk of Electric Shock. Must connect green (or "GR") tab under cover plate screw." This marking shall be marked on each adapter where visible during installation.

Revised 7.6.1 effective April 1, 2009

7.6.2 An adapter employing a movable male grounding pin or blade shall be marked with a statement making it clear that the adapter is for use with a portable hand-held, hand-guided, or hand-supported tool or appliance. See 16.1

7.7 Travel adapters

7.7.1 A travel adapter that allows an attachment plug to mate with an outlet device having a different voltage rating than that of the plug shall be marked on the device where visible during use "CAUTION" and the following instructions or the equivalent: "For Dual-Voltage Appliances Only – Before Inserting, Set Appliance Switch to ____ V Setting. Do Not Use with Products Having a Single ____ V Voltage Rating. SEE INSTRUCTIONS BEFORE USING." The first blank is to be filled in with the voltage rating associated with the blade configuration of the adapter. The second blank is to be filled in with the voltage rating associated with the outlet configuration of the adapter.

7.7.2 A travel adapter with outlet slots that are polarized, and male blades or pins for use in an electrical system that does not have provision for polarization shall be marked on the device where visible during use with the word "CAUTION" and the following statements or their equivalents:

- a) "To reduce the risk of electric shock from exposed live parts, do not use with appliances provided with a lampholder or an electrical outlet," and
- b) "To reduce the risk of fire or electric shock, grasp travel adapter and plug and remove from the receptacle when not in use."

7.7.3 A multi-configuration travel adapter shall be marked with the word "CAUTION" and the following statement or the equivalent: "To reduce risk of fire or electric shock, use only with these plug types," together with an outline drawing of the appropriate plug configurations. The marking shall appear on the device where it will be visible during use.

7.8 Devices with two sets of line blades

Added Sub-section 7.8 effective April 1, 2009

7.8.1 A device with two sets of line blades shall be marked, where visible during installation, with the following:

- a) "Not for use with ground-fault circuit-interrupter receptacles or receptacles with indicator lights or controls", or the equivalent.
- b) For a device having a blade spacing in accordance with Figure 9.1, "CAUTION - To reduce the risk of fire or electric shock, do not use this device with a receptacle in which the slot openings do not align with the blades", or an equivalent wording following the word "CAUTION".
- c) For a device having a blade spacing not in accordance with Figure 9.1, "CAUTION - To reduce the risk of fire or electric shock, do not use this device with receptacles other than those specified in the installation instructions", or an equivalent wording following the word "CAUTION".

7.9 Devices with supplementary overcurrent protection

Added Sub-section 7.9 effective April 1, 2009

7.9.1 The outlets of a device with supplementary overcurrent protection shall be marked, where visible after installation, to indicate the rating of the overcurrent protector that supplies them.

Exception: This marking is not required when the overcurrent protection is full-rated for the outlet configuration.

8 Installation Instructions

8.1 General

8.1.1 Unless otherwise specified in this section, installation instructions shall appear on the device, on the smallest unit container, or on a separate instruction sheet provided with each device. If the installation instructions are provided on the smallest unit container or on a separate sheet, they shall be attached to the device in such a manner that they are unable to become detached during normal conditions of handling and storage prior to initial installation or usage. The use of an individual carton, blister pack, or equivalent securing of the device to the instructions, meets the intent of the requirement. However, friction attachment shall not be employed.

Added 8.1.1 effective April 1, 2009

8.2 Current taps

8.2.1 A device intended for installation with the receptacle cover plate or cover plate screw removed shall be provided with detailed installation instructions to enable proper installation of the device with the cover plate removed. The inclusion of a pictorial representation is optional.

Added 8.2.1 effective April 1, 2009

8.2.2 A device intended for installation over receptacle cover plates of specific dimensions shall be provided with installation instructions that describe the maximum overall dimensions of the receptacle cover plate with which the device is intended to be used.

Added 8.2.2 effective April 1, 2009

8.2.3 A device having a blade spacing not in accordance with Figure 9.1 shall be provided with installation instructions that specify, by catalog number or equivalent designation, the receptacles with which the device is to be used.

Added 8.2.3 effective April 1, 2009

8.2.4 A device that does not provide electrical continuity between any metal cover plate and the cover plate mounting screw boss of the receptacle on which the device is intended to be used shall be provided with installation instructions requiring the user to replace the metal cover plate with a non-metallic cover plate.

Added 8.2.4 effective April 1, 2009

8.3 Grounding adapters

Added Sub-section 8.3 effective April 1, 2009

8.3.1 A grounding adapter shall be provided with installation instructions that include the words, "CAUTION - Risk of electric shock. Grounding continuity must be maintained. Consult a qualified electrician to determine whether cover plate screw is grounded. Fasten green tab under cover plate screw. Do not use this adapter on extension cords or on receptacles where the green tab cannot be connected", or an equivalent wording following the word "CAUTION".

8.4 Travel adapters

8.4.1 An instruction sheet, booklet or the equivalent shall be provided with each travel adapter. The instructions shall specifically warn the user of reasonably foreseeable risks and state the precautions to be taken to reduce such risks. The letters and text in 8.4.3 shall not be less than 2.0 mm (5/64 inch) high for upper-case letters and 1.6 mm (1/16 inch) high for lower-case letters. "IMPORTANT SAFETY INSTRUCTIONS" and "SAVE THESE INSTRUCTIONS" shall be in letters not less than 4.8 mm (3/16 inch) high.

8.4.2 The text of the instructions shall be verbatim to, or in equally definitive terminology as 8.4.3, except where specific conflict of the application to a product exists. The phrases "IMPORTANT SAFETY INSTRUCTIONS" and "SAVE THESE INSTRUCTIONS" shall be first and last, respectively, in a list of items. Other important safety instructions determined appropriate by the manufacturer are to be included.

8.4.3 The following instructions shall be provided with a travel adapter:

“IMPORTANT SAFETY INSTRUCTIONS”

“When using your travel adapter, basic precautions should always be followed, including the following”:

- a) “READ ALL INSTRUCTIONS BEFORE USING.”
- b) “DO NOT use this adapter with products containing screw-base lampholders (sockets) or convenience receptacles.”

Exception: This instruction need only be provided for a travel adapter that has polarized outlet slots and non-polarized blades or pins.

- c) “THIS PRODUCT IS NOT A VOLTAGE CONVERTER. Check the markings on each appliance and use this adapter only with appliances rated for both 120 and 240 volts. Using appliances rated only 120 volts with this adapter may result in a risk of fire, electric shock, injury to persons, or damage to the appliance.”
- d) “Be sure the dual-voltage selector switch, when provided, is in the correct voltage position before operating. Before plugging in, read the information about dual-voltage operation contained in these instructions and in the instructions provided with each appliance to be used with this adapter.”
- e) “Always attach the adapter to the plug of the appliance first, then insert the adapter into the outlet.”
- f) “Always disconnect the adapter and appliance from the electrical outlet when not in use.”
- g) **“SAVE THESE INSTRUCTIONS”**

8.4.4 The instructions for a travel adapter shall include information about dual-voltage operation, including the following:

- a) The statement “For use in the U.S.A., the appliance’s voltage selector switch should be placed in the 120-volt position. For use in countries overseas, the voltage selector may need to be placed in the 240-volt position. Confirm the voltage available at each overseas location before using this adapter with an appliance,” or the equivalent.
- b) A tabulation including the following information:
 - 1) A diagram of each male blade or pin configuration that the adapter will accept. This column shall be headed “WHEN APPLIANCE HAS THIS PLUG,” or the equivalent.
 - 2) A list of countries which employ the female outlet configuration that corresponds to the male blade or pin configuration used by each adapter. This column shall be headed “TO USE IN,” or the equivalent.
 - 3) The voltage rating associated with the male configuration in each country. This column shall be headed “SET SELECTOR AT,” or the equivalent.

9 General

9.1 Revised and relocated as 9.5 effective April 1, 2009

9.2 Revised and relocated as 9.6 effective April 1, 2009

9.3 Revised and relocated as 9.8 effective April 1, 2009

9.4 Revised and relocated as 9.7 effective April 1, 2009

9.5 A device shall employ one or two sets of male blades as line connections only. Load connections shall consist of outlets. Male blades shall not be employed for load connections.

9.5 added as revised and relocated from 9.1 effective April 1, 2009

9.6 A device shall have a maximum of three outlets supplied from one set of line blades.

Exception: A device that complies with 9.7, 9.8, or 9.9 is not required to comply with this requirement. See Table 9.1.

9.6 added as revised and relocated from 9.2 effective April 1, 2009

Table 9.1
Line and load connections
Added Table 9.1 effective April 1, 2009

No. of sets of line blades ^a	No. of outlets per set of line blades	Inhibits the use of the other outlet of the duplex receptacle ^b	Supplementary overcurrent protection required
1	3 or less	no	no
1	4 - 6	no	yes
1	4 - 6	yes	no
1	more than 6	yes	yes
2	3 or less	yes	no ^c
2	more than 3	yes	yes ^c

^a Includes only conducting line blades. See 9.10.
^b Provided with contact spacing as shown in Figure 9.1.
^c When a device with two sets of blades has one set feeding three outlets or less and one set feeding more than three outlets, the set feeding three outlets or less is not required to have supplementary overcurrent protection, but the set feeding more than three outlets is required to have supplementary overcurrent protection.

9.7 A device with four to six outlets and one set of line blades shall:

- a) Inhibit, in any position, the electrical use of the other outlet when mounted on or plugged into a duplex receptacle; or
- b) Be provided with supplementary overcurrent protection as described in 15.7.

9.7 added as revised and relocated from 9.4 effective April 1, 2009