



ELBZ.E464235 - Cord Sets and Power-supply Cords

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See General Information for Cord Sets and Power-supply Cords

WALTHER ELECTRIC

E464235

Unit F

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ELBZ.GuideInfo - Cord Sets and Power-supply Cords

Cord Sets and Power-supply Cords

Guide Information for Electrical Equipment for Use in Ordinary Locations

GENERAL

This category covers cord sets and power-supply cords for use as supply connections for portable appliances and the like.

This category also covers bulk certified power-supply cords that are repackaged from their original packaging.

Cord sets and power-supply cords are not intended to be used as a substitute for the fixed wiring of a structure and, hence, are not intended to be fastened in place. Cord sets and shore-power cable sets are rated in volts, amps and watts.

Cord sets and power-supply cords are commonly furnished in hanked or coiled form. If used in this condition, excessive heating may occur. Therefore, when placed into service, all wrappings should be removed, and the flexible cord should be extended for its entire length.

Hospital-grade cord sets and power-supply cords are intended for use in hospitals and health care facilities in other than hazardous (classified) locations. Hospital-grade attachment plugs are of the NEMA 5-15P, 5-20P, 6-15P or 6-20P configuration, either of straight or right-angle type. Hospital-grade connectors are of the NEMA 5-15P, 5-20P, 6-15P or 6-20P, either of straight or right-angle type, IEC 60320-1, "Appliance Couplers for Household and Similar General Purposes - Part 1: General Requirements," or UL 60320-1, "Appliance Couplers for Household and Similar General Purposes - Part 1: General Requirements," or other non-NEMA approved configuration.

Cord sets and power-supply cords that employ ground-fault circuit interrupter protection are investigated to UL 943, "Ground-Fault Circuit-Interrupters," and covered under Ground-fault Circuit Interrupters (KCXS).

For information regarding the flexible cord types and their ratings, see Flexible Cord (ZJCZ).

Cord sets and power-supply cords that employ flexible cord bearing the "HF" marking and where combustible materials used in the construction of the plug-and-cord connector (when employed) of the cord set or power-supply cord (e.g., inner mold/enclosure, outer mold/enclosure) are determined to be halogen-free in accordance with UL 2885, "Outline of Investigation for Acid Gas, Acidity and Conductivity of Combusted Materials and Assessment of Halogens," may be surface marked on the plug and/or cord connector with the suffix "-HF" after the catalog number.

CORD SETS

A cord set consists of a length of flexible cord assembled (1) to an attachment plug or current tap as a line fitting and a cord connector as a load fitting, and with or without a through-cord switch, or (2) with a series-connected current tap and a pendant switch.

Cord sets are designated as one of the following types and are so identified by the Certification Mark:

Extension Cord Set — This is a cord set intended for general use indoors and assembled with general-use flexible cord and general purpose fittings. These cord sets may be less than six feet long. Cord sets shorter than six feet long are marked to indicate their length. Cord sets may also have integral restraint devices to prevent unintentional disconnection of the cord connector from a mating attachment plug of an appliance. Restraint devices that are separate from cord sets are covered under Cord Restraint Devices (ELDW).

Outdoor-use Extension Cord Set — This is a cord set assembled with outdoor-type flexible cord without a switch, and which is intended for use outdoor to supply portable electric equipment. It is (1) marked "Suitable For Use With Outdoor Appliances — Store Indoors While Not In Use," (2) suitable for supplying portable outdoor appliances within their marked voltage, amp and wattage rating, (3) intended for use outdoors only while the equipment supplied is in use, and (4) intended to be stored indoors (i.e., where not

exposed to sunlight and/or weather) while not in use. Such a cord set has been investigated to determine (1) that the materials in the flexible cord and in the line and load fittings, and (2) the adhesion between the cord jacket and the bodies of the line and load fittings are suitable for periodic use outdoors.

The connection between the attachment plug cap and the outlet device supplying the cord set, and between the supply cord of any connected appliance and the load end of the cord set, should not be subjected to moisture or dampness. Outdoor-use cord sets may also have integral restraint devices to prevent unintentional disconnection of the cord connector from a mating attachment plug of an appliance. Restraint devices that are separate from cord sets are covered under Cord Restraint Devices (ELDW).

Adapter Cord Set — This is an outdoor-use cord set, without a switch, consisting of an attachment plug, a length of extra-hard-usage outdoor-type flexible cord, and one or more load fittings providing:

1. a total of not more than three outlets configured together, or configured with one or more flexible cords, or
2. up to six single-outlet load fittings, provided that each load fitting is in line and spaced apart from the others.

Adapter cord sets are intended for use in areas such as construction sites to provide power to two or three outlets from a single outlet, or to convert from one outlet configuration to another. An adapter cord set with more than one single-outlet load fitting may have a joint in the flexible cord with the cord branching to two or three cords, each terminating in a single-outlet load fitting.

Cord Set for Recreational Vehicles — This is an outdoor-use cord set intended for use in supplying power to recreational vehicles.

Shore-power Cable Set — A shore-power cable set is an outdoor-use cord set that is used in supplying power to boats moored to a dock. They are intended to be stored aboard the boat where not exposed to sunlight and/or weather while not in use. The line and load fittings are of the locking type, rated not less than 20 A and are intended to be connected to suitable shore-power outlet and hull-power inlet devices, respectively. The connection of the attachment plug to a shore-based power outlet and the connection of the cord connector to a shore-power inlet, aboard a boat, provides a seal against water. Shore-power cable sets are also covered under Shore-power Cable Sets, Marine (UBWW).

Appliance Cord Set — A cord set consists of a length of flexible cord assembled with (1) an attachment plug or current tap as a line fitting at one end, and (2) a single outlet load fitting (appliance coupler) at the opposite end. It is intended for use and packaging with appliances. It may be one of the following types:

Cord Set Having an Appliance Plug — This is a cord set, not less than 2 ft (0.61 m) long, with an appliance plug as a load fitting.

Cord Set Having a Flatiron Plug — This is a cord set, not less than 6 ft (1.8 m) long, having a heater cord and a flatiron plug as a load fitting.

Cord Set for Appliances Rated Not Greater Than 50 W — This is a cord set for use with hand-held appliances rated 50 W or less and having a load fitting (appliance coupler) for use with electric shavers, electric scissors, electric combs, and the like.

Cord Set - Special Use — A special-use cord set is intended for restricted use and incorporates special design features (such as special cords and fittings) for a specific application. Each is provided with marking pertinent to its proper use, and/or limitations and electrical rating.

Cord Set - Hospital Grade — A cord set having a hospital-grade attachment plug and a hospital-grade connector of the IEC 60320-1 or UL 60320-1 or other non-NEMA-approved configuration.

Extension Cord Set - Hospital Grade — A cord set having a hospital-grade attachment plug and a hospital-grade cord connector of the same mating configuration.

POWER-SUPPLY CORDS

Power-supply cords are inherently nondetachable type, and may employ additional components such as an integral strain relief bushing or individual terminals.

Power-supply cords are designated as one of the following types:

Power-supply Cord — This is a power-supply cord consisting of a length of flexible cord assembled with an attachment plug or current tap as a line fitting but without a cord connector (appliance coupler) at the opposite end. It is intended for direct wiring connection to an appliance and may include a through-cord switch. It may have additional components such as an integral strain relief bushing or individual terminals. Power-supply cords may be one of the following:

- **Power-supply Cord for General Use** — This is a power-supply cord consisting of a suitable fitting for line connection assembled to a length of general-purpose flexible cord, and may include a through-cord switch, a strain-relief method, or connection terminals on the free ends.
- **Power-supply Cord for Ranges and Dryers** — This is a power-supply cord consisting of a general-use power-supply cord constructed using Type SRD or SRDT flexible cable. The flexible cable may employ a neutral conductor which is two AWG sizes smaller than the other circuit conductors, but not smaller than 10 AWG.

Outdoor-use Power-supply Cord — This is a power-supply cord assembled with outdoor-type flexible cord. It is for use with portable outdoor appliances.

Power-supply Cord for Recreational Vehicles — This is an outdoor-use power-supply cord with the outer surface of the flexible cord marked "For Recreational Vehicle Use: ___ Amps."

Power-supply Cord for Mobile Homes — This is an outdoor-use power-supply cord with the outer surface of the flexible cord marked "For Mobile Home Use: ___ Amps."

Power-supply Cord - Special Use — A special-use power-supply cord is intended for restricted use and incorporates special design features (such as special cords and fittings) for a specific application. Each is provided with marking pertinent to its proper use, and/or limitations and electrical rating.

Power-supply Cord - Hospital Grade — A power-supply cord having a hospital-grade attachment plug.

PRODUCT IDENTITY

One of the following product identities appears on the product:

Adapter Cord Set

Cord Set

Cord Set - Special Use

Cord Set for Recreational Vehicles

Extension Cord Set

Hospital-grade Cord Set

Hospital-grade Extension Cord Set

Hospital-grade Power-supply Cord

Outdoor-use Extension Cord Set

Outdoor-use Power-supply Cord

Power-supply Cord

Power-supply Cord - Special Use

Power-supply Cord for Mobile Homes

Power-supply Cord for Recreational Vehicles

Replacement Detachable Power-supply Cord

Replacement Outdoor-use Power-supply Cord

Replacement Power-supply Cord

Shore-power Cable Set

The update from UL 817 (11th ed.) to UL 817 (12th ed.) included revisions to the definitions of various products. Below is a correlation of the definitions between the two editions.

Product Identity in UL 817 (11th ed.)	Product Identity in UL 817 (12th ed.)
Cord Set - Adapter	Adapter Cord Set
Cord Set - General Use	General Use Extension Cord Set
Cord Set - Outdoor Use	Outdoor Use Extension Cord Set
Cord Set - Recreational Vehicle	Recreational Vehicle Cord Set
Detachable Power Supply Cord - General Use	General Use Cord Set
Detachable Power Supply Cord - Special Use	Special Use Cord Set
Detachable Power Supply Cord for Appliances Rated 50 W or Less	Cord Sets for Appliances Rated 50 W or Less
Detachable Power Supply Cord Having Appliance Plug	Cord Set Having Appliance Plug
Detachable Power Supply Cord Having Flatiron Plug	Cord Set Having Flatiron Plug
Nondetachable Power Supply Cord - General Use	General Use Power Supply Cord
Nondetachable Power Supply Cord - Mobile Home	Mobile Home Power Supply Cord
Nondetachable Power Supply Cord - Outdoor Use	Outdoor Use Power Supply Cord
Nondetachable Power Supply Cord - Range and Dryer	Range and Dryer Power Supply Cord and Kit
Nondetachable Power Supply Cord - Recreational Vehicle	Recreational Vehicle Power Supply Cord
Nondetachable Power Supply Cord - Special Use	Special Use Power Supply Cord
Shore Power Cable Set	Shore Power Cable Set
—	Hospital Grade Cord Set
—	Hospital Grade Extension Cord Set
—	Hospital Grade Power Supply Cord

RELATED PRODUCTS

Power-supply cords intended for use with waste disposers are investigated to UL 430, "Waste Disposers," and covered under Waste Disposers, Sink Mounted (ZDII). Only those power-supply cords that have been investigated to UL 430 are permitted to be marked "Garbage Disposal Cord," or the equivalent.

ADDITIONAL INFORMATION

For additional information, see Electrical Equipment for Use in Ordinary Locations (AALZ).

REQUIREMENTS

The basic standard used to investigate products in this category is UL 817, "Cord Sets and Power-Supply Cords."

Molded-on IEC-configuration fittings are additionally investigated to the applicable requirements of UL 60320-1, "Appliance Couplers for Household and Similar General Purposes - Part 1: General Requirements."

UL MARK

The Certification Mark of UL on the product is the only method provided by UL to identify products manufactured under its Certification and Follow-Up Service. The Certification Mark for these products includes the UL symbol, the words "CERTIFIED" and "SAFETY," the geographic identifier(s), and a file number.

The Certification Mark for this category requires the use of a holographic label.

All Certification Marks are applied to each individual piece except for "Power-supply Cord," "Outdoor-use Power-supply Cord" and "Detachable Power-supply Cord." These products are bulk labeled (label applied to smallest container indicating number of pieces) and are not intended for field application.

Alternate UL Mark

The Listing Mark of UL on the product is the only method provided by UL to identify products manufactured under its Listing and Follow-Up Service. The Listing Mark for these products includes the UL symbol (as illustrated in the Introduction of this Directory) together with the word "LISTED," a control number, and one of the following product names as appropriate::

Adaptor Cord Set

Cord Set

Cord Set - Special Use

Cord Set for Recreational Vehicle

Extension Cord Set

Outdoor Use Extension Cord Set

Outdoor Use Power Supply Cord

Power Supply Cord

Power Supply Cord - Special Use

Power Supply Cord for Mobile Home

Power Supply Cord for Recreational Vehicle

Replacement Cord Set

Replacement Outdoor Use Power Supply Cord

Replacement Power Supply Cord

Shore Power Cable Set

All Listing Marks are applied to each individual piece except for "Cord Set," "Outdoor Use Power Supply Cord" and "Power Supply Cord." These products are bulk labeled (label applied to smallest container indicating number of pieces) and are not intended for field application.

The Listing Mark for this category requires the use of a holographic label.

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