



ELBZ.GuideInfo

Cord Sets and Power-supply Cords

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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 [ANSI/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 [ANSI/UL 943](#), "Ground-Fault Circuit-Interruption," 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 ANSI/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.

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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 ANSI/UL 817 (11th ed.) to ANSI/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 ANSI/UL 817 (11th ed.) | Product Identity in ANSI/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 [ANSI/UL 430](#), "Waste Disposers," and covered under Waste Disposers, Sink Mounted ([ZDII](#)). Only those power-supply cords that have been investigated to [ANSI/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 [ANSI/UL 817](#), "Cord Sets and Power-Supply Cords."

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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ZJCZ.GuideInfo Flexible Cord

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[Wire] Flexible Cord

See General Information for Wire

GENERAL

This category covers flexible cord constructed and certified for use in accordance with Article 400 of ANSI/NFPA 70, "National Electrical Code" (NEC). All conductors are stranded copper, except for tinsel cord.

Voltage Ratings

"Clock Cord" is rated 125 V.

Types C (14 - 10 AWG), PD (14 - 10 AWG), E (12 - 2 AWG), ETT (12 - 2 AWG), ETP (12 - 2 AWG), EO (12 - 2 AWG), S, SO, SOO, SOW, SOOW, ST, STO, STOO, STW, STOW, STOOW, SE, SEO, SEOO, SEW, SEOW and SEOOW are rated 600 V.

Types C (18 - 16 AWG), PD (18 - 16 AWG) "Shaver cord," E (20 - 12 AWG), ETT (20 - 12 AWG), ETP (20 - 12 AWG), EO (20 - 12 AWG), SV, SVO, SVOO, SVE, SVEO, SVEOO, SVT, SVTO, SVTOO, SJ, SJO, SJOO, SJOW, SJOOW, SJE, SJE0, SJE00, SJEW, SJEOW, SJE0OW, SJT, SJTO, SJTOO, SJTW, SJTOW, SJTOOW, SPT-1, SPT-1W, SPT-2, SPT-2W, SPT-3, SPE-1, SPE-2, SPE-3, SP-1, SP-2, SP-3, NISP-1, NISP-2, NISPT-1, NISPT-2, NISPE-1, NISPE-2, XTW, CXTW, SRD, SRDE, SRDT, TPT, TST, HPD, HPN, HSJ, HSJO, HSJOW, HSJO0 and HSJOOW are rated 300 V.

Types E, EO, ETT and ETP in 12 AWG are rated 300 or 600 V, depending on insulation thickness.

Conductor Sizes

The conductor size ranges are as specified in the NEC with the following exceptions:

Types HSJOW and HSJOOW have the same conductor size range as HSJO and HSJOO, respectively.

Types XTW, 22 - 18 AWG; CXTW, 22 - 18 AWG; "Clock Cord," 20 AWG; and "Shaver Cord," 27 and 20 AWG.

Temperature Ratings

Types C, PD, SP-1, SP-2, SP-3, NISP-1, NISP-2, SRD, E, EO, ETP, ETT, TPT, TST and "Shaver Cord" are rated 60°C.

Types XTW and CXTW are rated 105°C.

Types SPE-1, SPE-2, SPE-3, SVE, SVEO, SVEOO, SJE, SJEO, SJEOO, SJEW, SJEOW, SJEOOW, SE, SEO, SEOO, SEW, SEOW, SEOOOW, NISPE-1, NISPE-2, SRDE, HPD, HPN, HSJ, HSJO, HSJOW, HSJOO and HSJOOW are rated 90 or 105°C.

"Clock Cord" is rated 60 or 105°C.

Types SV, SVO and SVOO are rated 60, 75 or 90°C.

Types S, SO, SOO, SOW, SOOW, SJ, SJO, SJOO, SJOW, SJOOW, SVT, SVTO, SVTOO, SJT, SJTO, SJTOO, SJTW, SJTOW, SJTOOW, ST, STO, STOO, STW, STOW, STOOW, NISPT-1, NISPT-2, SPT-1, SPT-1W, SPT-2, SPT-2W, SPT-3, and SRDT are rated 60, 75, 90 or 105°C.

Cord Types or Characteristics Not Covered by the NEC

Type XTW is a parallel assembly of two to six conductors intended for use in decorative-lighting equipment.

Type CXTW is a single conductor or twisted assembly of two conductors intended for use in decorative-lighting equipment.

Types LXT and LXTW are single-conductor constructions of wire intended for use in decorative-lighting equipment.

"Clock Cord," which has no Type designation, is similar to Type XTW except for conductor size.

"Shaver Cord," which has no Type designation, is similar to Type TPT except for the conductor configuration.

Types HSJOW and HSJOOW are outdoor-use versions of types HSJO and HSJOO, respectively.

Types SPT-1W and SPT-2W may contain three conductors.

Types S, SO, SOO, SOW, SOOW, SJ, SJO, SJOO, SJOW, SJOOW, SVT, SVTO, SVTOO, SJT, SJTO, SJTOO, SJTW, SJTOW, SJTOOW, ST, STO, STOO, STW, STOW, STOOW, NISPT-1, NISPT-2, SPT-1, SPT-1W, SPT-2, SPT-2W, SPT-3, SRDT, SPE-1, SPE-2, SPE-3, SVE, SVEO, SVEOO, SJE, SJEOW, SJEOW, SJEOW, SE, SEO, SEOW, SEOW, SEOW, NISPE-1, NISPE-2, SRDE, HPD, HPN, HSJ, HSJO, HSJOW, HSJOO, HSJOOOW, SP-1, SP-2, SP-3, NISP-1, NISP-2, SRD, SV, SVO and SVOO, 18 - 14 AWG may be additionally suffixed "-R."

Compatibility

Due to possible incompatibility, TPE material of a styrenic type is, in some cases, not suitable for use in cords where direct contact with PVC can occur. A separator is one acceptable means of avoiding direct contact. Other combinations of materials that could be incompatible, if any, are as yet undetected.

PRODUCT MARKINGS

18/1/2018 ZJCZ.GuidelInfo - Flexible Cord

All cord is surface printed with "UL" in a circle or parentheses, the type designation, temperature rating, voltage rating, flame rating, size and number of conductors.

Cord marked "For Mobile Home Use," "For Recreational Vehicle Use" or "For Mobile Home and Recreational Vehicle Use," followed by the current rating in amps, indicates suitability for use in mobile homes or recreational vehicles.

"W" indicates suitability for use outdoors and for immersion in water. The low-temperature rating for this cord is -40°C unless otherwise marked on the cord with optional ratings of -50, -60 or -70°C. The low-temperature ratings are determined by means of a bend test (not a suppleness test) at the given temperature. The cord may be additionally marked "Water Resistant."

"VW-1" indicates that the cord complies with a Vertical Flame Test. Cord that has been investigated for leakage currents between the circuit conductor and the grounding conductor, and between the circuit conductor and the outer surface of the jacket, may have the values so marked on the cable jacket.

Cord investigated for mobile home use, recreational vehicle use, or mobile home and recreational vehicle use, or cord investigated for leakage current between conductors, may have the ampacity of the cord marked on the cord. In all other cases, the ampacity of the cord is not marked on the surface of the cord.

Designated cord types found in the NEC rated 300 or 600 V and 18 - 14 AWG may be suffixed by "-R." This suffix indicates that the cord complies with additional mechanical abuse testing required by some appliance standards, including cord-connected fans and heaters.

Cable where it has been determined that all of the combustible materials used in the construction (e.g., insulation, fillers, jackets) are 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 with the suffix "-HF."

PRODUCT IDENTITY

The following product identity appears on the product:

Flexible Cord

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 [ANSI/UL 62](#), "Flexible Cords and Cables."

UL MARK

The UL symbol on the product and the Certification Mark of UL on the attached tag, reel, or on the smallest unit container in which the product is packaged 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.

Alternate UL Mark

The UL symbol on the product and the Listing Mark of UL on the attached tag, the reel, or the smallest unit container in which the product is packaged 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 the product name "Flexible Cord."

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

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WNIX.GuideInfo Switches, Pendant

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[Switches] (Snap Switches) Switches, Pendant

[See General Information for Snap Switches](#)

GENERAL

This category covers pendant switches, through-cord switches, and combination pendant switches with attachment-plug receptacles.

PRODUCT IDENTITY

The following product identity appears on the product:

Switch

ADDITIONAL INFORMATION

For additional information, see Snap Switches ([WJQR](#)) and Electrical Equipment for Use in Ordinary Locations ([AALZ](#)).

REQUIREMENTS

The basic standard used to investigate products in this category is [ANSI/UL 20](#), "General-Use Snap Switches."

UL MARK

The Certification Mark of UL on the product, or the UL symbol stamped or molded into the product and the Certification Mark on the smallest unit packaging 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.

In lieu of the UL symbol stamped or molded into the product, "UNDERWRITERS LABORATORIES INC. LISTED" (or "UND. LAB. INC. LIST.") may be stamped or molded into the product. When marked as such, the Certification Mark will appear on the smallest unit packaging.

Alternate UL Mark

The Listing Mark of UL on the product, or the UL symbol stamped or molded into the product and the Listing Mark on the smallest unit packaging 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 the product name "Switch."

In lieu of the UL symbol stamped or molded into the product, "UNDERWRITERS LABORATORIES INC. LISTED" (or "UND. LAB. INC. LIST.") may be stamped or molded into the product. When marked as such, the Listing Mark shall appear on the smallest unit packaging.

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