



World Cord Sets, Inc.

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NEMA Power Cords



We stock a wide range of NEMA Power Cords, including 1-15P, 5-15P, 5-20P, 6-15P, 6-20P, L5-15P, L5-20P, L5-30P, L6-15P, L6-20P, L6-30P, Power Cords, Extension Cords, Hospital Grade, Splitters (Y-Cords), Adapter, GFCI, 1-15R, 5-15R, 5-20R, 6-15R, 6-20R, L5-15R, L5-20R, L5-30R, L6-15R, L6-20R, L6-30R, IEC 60320 C-5, C-7, C-13, C-15, C-19, Right Angle, Left Angle, Up Angle, Down Angle.

General Information - NEMA

NEMA connectors are power plugs, receptacles and connectors for AC power in North America and other countries using the standards set by the National Electrical Manufacturers Association (US). NEMA devices have current ratings ranging from 15 to 60 amperes, with voltage ratings from 125 to 600V. Depending on the application, plugs can come with ground, neutral or line pins in multiple combinations with corresponding connectors/receptacles.

The two main classifications for NEMA plugs are straight blade and locking. The straight blade plugs can be easily inserted into a matching receptacle and in turn disconnected by tugging on the plug head. The locking plugs were designed to prevent accidental unplugging in primarily industrial settings and must be twisted into place upon installation. The Locking series of NEMA plugs offers the same power functionality as the standard series, but are classified by "L". In example the NEMA 5-15P and L5-15P both offer maximum 15A 125VAC ratings, but the L series offers the extra locking safety feature.

The blades of a NEMA connector are identified as follows. "G" is the grounding conductor, "W" is the neutral conductor, and "X", "Y" and "Z" are the line conductors. Single phase will either use (X) or (X and Y) phase depending on the application, and three phase plugs will use all X, Y and Z.



NEMA 1-15P

The NEMA 1-15P is a 2 Wire 2 Blade ungrounded plug rated at 125V and 15 Amps in North America. The use of NEMA 1-15R (the receptacle matching the 1-15P) is discontinued in new home installations in the U.S (since 1962). NEMA 1-15P are compatible with the NEMA 5-15R outlet. This plug can be "polarized" or "non-polarized", a polarized 1-15P will have unequal blades to prevent harm to devices attached.



NEMA 5-15P

The NEMA 5-15P is a 3 Wire grounded plug featuring two blades (can be equal or unequal widths due to the ground pin forcing polarity) and one ground pin rated up to 125V AC and 15 Amps. The NEMA 5-15P is your standard household plug used for to connect small appliances such as TV's, Microwaves, hairdryers, etc to a wall outlet. The NEMA 5-15P is compatible with a Nema 5-20R T-Slot outlet, which is commonly found in new home installations.

NEMA 5-20P



The NEMA 5-20P is a 3 Wire grounded plug featuring two blades and one ground pin rated up to 125V AC and 20 Amps. The NEMA 5-20P is used in applications that require higher power draw such as large refrigerators, space heaters, large kitchen mixers, etc. The 5-20R T-Slot receptacle allows you to plug in either a 5-20P or a 5-15P plug, allowing greater flexibility. In modern home installations, 5-20R T-Slot receptacles are often used when 20A circuits are installed due to flexibility of being downward compatible with the 5-15P.

NEMA 6-15P



The NEMA 6-15P is a 3 Wire grounded plug featuring two blades and a ground pin, rated up to 250V AC and 15 Amps. The NEMA 6-15P has two, horizontal blades on the top of the plug spaced 23/32" center to center and a ground pin spaced between the two on the bottom of the plug. The NEMA 6 Series is commonly used with 208V and 240V circuits depending on your electrical service

NEMA 6-20P



The NEMA 6-20P is a 3 Wire grounded plug featuring two blades and a ground pin, rated up to 250V AC and 20A. The 6-20P has a horizontal and vertical blade to prevent attachment to lower ampere rated receptacles. However, the 6-20R (receptacle) offers a "T" slot allowing connection of both a 6-20P and a 6-15P. Common applications are commercial ovens and large air condition units.

NEMA L5-15P



The NEMA L5-15P is a 3 Wire grounded plug with a hot, neutral and ground pin rated up to 125V and 15A. The plug can be locked into place on the matching receptacle which prevents nuisance disconnection. This feature makes this plug popular in commercial and industrial settings where high traffic or moving of equipment is common. This plug can be distinguished against other NEMA Locking plugs by its small blade circumference on the plug head and inward turned tabs on the neutral blade.

NEMA L5-20P



The NEMA L5-20P is a 3 Wire grounded plug with a hot, neutral , and ground pin rated up to 125V and 20A. This plug can be locked into place on the matching receptacle which prevents nuisance disconnection. This plug looks nearly identical to L5-30P but is slightly smaller in pin thickness and alignment circumference. Refer to either plug, receptacle or face plate to find out your amp requirements.

NEMA L5-30P



The NEMA L5-30P is a 3 Wire grounded plug with a hot, neutral and ground pin rated up to 125V and 30A. This plug can be locked into place on the matching receptacle which prevents nuisance disconnection. This plug looks nearly identical to L5-20P but is slightly larger in pin thickness and alignment circumference. Refer to either plug, receptacle or faceplate to find out your amp requirements.

NEMA L6-15P



The NEMA L6-15P is a 3 Wire grounded plug with a hot, hot and ground pin rated up to 250V and 15A. This plug can be locked into place on the matching receptacle which prevents nuisance disconnection. The NEMA L6 Series is most commonly used for 208V or 240V applications, This plug can be distinguished by its tight pin alignment on the plug head and the outward turned tab on the ground pin.

NEMA L6-20P



The NEMA L6-20P is a 3 wire grounded plug with a hot, hot and ground pin rated up to 250V and 20A. This plug can be locked into place on the matching receptacle which prevents nuisance disconnection. This plug is commonly found on in-rack power distribution units (PDU) where standard electrical service exceeds 125V, also in industrial settings to supply power to equipment or power tools.

NEMA 6-30P



The NEMA 6-30P is a (hot-hot-ground) grounded plug that is rated up to 250V and 30A. This plug will supply either 208V or 240V based upon your electrical service, and will provide no neutral connection. This is commonly found on in-rack power distribution units where the electrical service is greater than 120V. The locking safety feature prevents this plug from disconnecting without intent

Subcategories

NEMA 5-15R to IEC 60320 C14 Adapter Power Cords



C14 to 5-15R according to IEC 60320 (IEC320) and NEMA standards. Available in 13 and 15 amp 125 volt rating. Standard color is BLACK but other colors are available upon request. Standard and custom lengths available. IEC 60320 C14 to NEMA 5-15R Power Cords are used to convert from a C13 Connector to a 5-15R (your standard North American Plug). These can be used in scenarios where you are required to plug a 5-15P into a PDU that only has C13 outlet receptacles, a commonplace among server rooms, among other applications.

15A 125V NEMA 5-15P Power Cords



NEMA 5-15 Power Cords are available in many configurations: NEMA 5-15P, 5-15R, NEMA Extension, Pigtails (whips), Splitters, Adapter, IEC 60320 C5, C13, C15, C19, IEC 60309 Pin and Sleeve. Standard jacket type is SJT(OW). Other jacket types are available upon request: SVT, SPT, SJ, SJO, SJOW, SJOOW, S, SO, SOW, SOOW. LSZH (Low Smoke Zero Halogen) PLENUM cords are available upon request. SJT-R jacket for heater applications is available upon request. NEMA 5-15 15A 125V power cords are available in black, white, gray, blue, green, red, yellow, orange.

20A 125V NEMA 5-20P Power Cords



NEMA 5-20P Power Supply Cords are available with IEC 60320 C-13, IEC 60320 C-15, IEC 60320 C-19, NEMA 5-20R (STRAIGHT), NEMA L5-20R (TWIST LOCK), and other connectors (receptacles). Standard jacket type is SJT(OW) but rubber cordage is available. Other jacket colors (white, gray, blue, green, red, yellow, orange) are available.

15A 250V NEMA 6-15P Power Cords



NEMA 6-15 Power Supply Cords are available with IEC 60320 C-13, IEC 60320 C-15, IEC 60320 C-19, NEMA 6-15R (STRAIGHT), and other connectors (receptacles). Standard STOCK jacket type is BLACK SJT(OW) but rubber cordage is available. Other jacket colors (white, gray, blue, green, red, yellow, orange) are available. We stock several standard lengths.

20A 250V NEMA 6-20P Power Cords



NEMA 6-20 Power Supply Cables are available with IEC 60320 C-13, IEC 60320 C-15, IEC 60320 C-19, NEMA 6-20R (STRAIGHT), NEMA L6-20R (TWIST LOCK), and other connectors (receptacles). Standard jacket type is BLACK SJT(OW) but rubber cordage is available. Other jacket colors (white, gray, blue, green, red, yellow, orange) are available. NEMA, 6-20, 6-20P, 620P, 6-20R, 620R, plug, plugs. 15A and 20A power cords are available.

15A 125V NEMA L5-15P Twist-Lock Power Cords



NEMA L5-15P (TWIST LOCK) Power Cords are rated up to 125VAC and 15A. These power cords are available with IEC 60320 C-13, IEC 60320 C-19, NEMA L5-15R Extension Cord (TWIST LOCK power connector), and Open Whips. Standard jacket type is SJT(OW) but rubber cordage is available. Other jacket colors (white, gray, blue, green, red, yellow, orange) are available. We stock STANDARD lengths. Standard wire gauge is 14AWG.

20A 125V NEMA L5-20P Twist-Lock Power Cords



NEMA L5-20P (TWIST LOCK) Power Supply Cords are rated up to 125VAC and 20A. These power cords are available with IEC 60320 C-13, IEC 60320 C-19, NEMA 5-20R (STRAIGHT), NEMA L5-20R (TWIST LOCK), NEMA 5-20R (STRAIGHT), and other connectors (receptacles). Standard jacket type is SJT(OW) but rubber cordage is available. Other jacket colors (white, gray, blue, green, red, yellow, orange) are available.

15A 125V NEMA L6-15P Twist-Lock Power Cords



NEMA L6-15P (TWIST LOCK) Power Cords are rated up to 250VAC and 15A. These power cords are available with IEC 60320 C-13, IEC 60320 C-19, NEMA L6-15R Extension Cord (TWIST LOCK) and Open Whips. We stock STANDARD lengths. Standard color is BLACK. Standard wire gauge is 14AWG. The NEMA L6-15P to Open/Whip/Pig Tail- NACC, North American Color Code, refers to the color code of the conductor insulation which is BLACK / WHITE / GREEN. This cord is for field installation to equipment or device that requires a line, neutral and ground conductor (not exceeding the rated power of the cord) to operate. Standard Whips are Removed Outer Jacket(ROJ) 2" and then each conductor is stripped 1/4" to bare conductor. Other ROJ/Strip combinations are available for bulk quantities upon request.

20A 250V NEMA L6-20P Twist-Lock Power Cords



NEMA L6-20P Power Supply Cables (Cordsets). Available with L6-20R (female connector - extension cord), IEC 60320 (IEC320) C-13 or C19. Standard color is black. Other colors available (WHITE, GRAY, BLUE, GREEN, RED, YELLOW, ORANGE). Nema, L6-20, L6-20P, L620P, plug, plugs.

30A 250V NEMA L6-30P Power Cords



NEMA L6-30P Power Supply Cords are rated up to 250V and 30A. Available with L6-30R (female connector - extension cord), IEC 60320 (IEC320) C-13, C15, C19, C21 as well as many other splitter variations. Standard color is black. Other colors available (WHITE, GRAY, BLUE, GREEN, RED, YELLOW, ORANGE).

30A 125V NEMA L5-30P Twist-Lock Power Cords | World Cord Sets



NEMA L5-30P (TWIST LOCK) Power Cords are rated up to 125VAC and 30A. These power cords are available with IEC 60320 C-13, IEC 60320 C-19, NEMA L5-30R Extension Cord (TWIST LOCK) and Open Whips. We stock STANDARD lengths. Standard color is BLACK. Standard wire gauges are 12AWG and 10AWG. The NEMA L5-30P to Open/Whip/Pig Tail- NACC, North American Color Code, refers to the color code of the conductor insulation which is BLACK / WHITE / GREEN. This cord is for field installation to equipment or device that requires a line, neutral and ground conductor (not exceeding the rated power of the cord) to operate. Standard Whips are Removed Outer Jacket(ROJ) 2" and then each conductor is stripped 1/4" to bare conductor. Other ROJ/Strip combinations are available for bulk quantities upon request.

Hospital Grade NEMA Power Cords



We currently stock Grey Hospital Grade NEMA 5-15P to right angle IEC60320 C13 in 5 meter lengths. Plugs, Connectors and Power Cords used in medical applications must have a green dot clearly displayed on the housing surface to show conformance with Underwriter Laboratories specifications UL817, UL60601-1 and UL498. It states in UL60601-1 that all patient care equipment must use power cords with hospital grade attachment plugs.



NEMA Adapter Cords

We offer many NEMA 5-15P Adapter Cords. Some connectors (female) include NEMA L5-15R, L5-20R, L5-30R, 5-20R. These power cord sets are rated for up to 125V and 15A, and should not be used in scenarios where equipment will draw more. Consult with your team before eliminating safety features of a twist lock connection.



15A 125V NEMA1-15P Power Cords

NEMA 1-15P Power Cord Sets and Power Supply Cords are ungrounded 125v 15A Power Cords. These are available with: IEC 60320 C7, IEC 60320 C17 or an open ended configuration.