



NEMA TWIST LOCK

Plugs - Receptacles - Connectors

NEMA Twist Lock Plug, Receptacle, and Connector Configurations

What is a Twist Lock Plug?

A twist lock plug is an locking plug that must be twisted into the Twist Lock Locking Receptacle to make an electrical connection, locking the plug into the receptacle. Twist lock plugs are used in industry and commercial applications where it is critical that the connection does not become unplugged.

NEMA Twist Lock Plug and Receptacle Chart

See also our NEMA Configurations Chart for Straight Blade Plugs, Receptacles and Connectors.

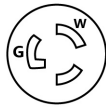

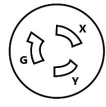
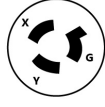
On this page: 2 Pole, 3 Wire, Grounded • 3 Pole, 3 Wire, Ungrounded • 3 Pole, 4 Wire, Grounded • 4 Pole, 4 Wire, Ungrounded • 4 Pole, 5 Wire, Grounded

2 Pole, 3 Wire, Grounded Twist Lock

15 amp ↓ 20 amp ↓ 30 amp ↓

Legend



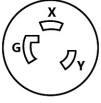
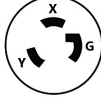

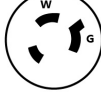
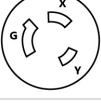
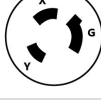


R = Receptacle **C** = Corded female **FO** = Flanged outlet **P** = Plug **FI** = Flanged inlet

Voltage	Type	15 Amperes	
		Receptacle	Plug
2 POLE, 3 WIRE, GROUNDED			
125V	L5	L5-15R L515-R L5-15C L515-FO 	L5-15P L515-P L515-FI 
250V	L6	L6-15R L615-R L6-15C L615-FO 	L6-15P L615-P L615-FI 

277V AC	L7	L7-15R L715-R L7-15C L715-FO	L7-15P L715-P L715-FI
480V AC	L8		
600V AC	L9		

Voltage	Type	20 Amperes	
		Receptacle	Plug
2 POLE, 3 WIRE, GROUNDED			
125V	L5	L5-20R L520-R L5-20C L520-FO	L5-20P L520-P L520-FI
250V	L6	L6-20R L620-R L6-20C L620-FO	L6-20P L620-P L520-FI
277V AC	L7	L7-20R L720-R L7-20C L720-FO	L7-20P L720-P L720-FI
480V AC	L8	L8-20R L820-R L8-20C L820-FO	L8-20P L820-P L820-FI
600V AC	L9	L9-20R L920-R L9-20C L920-FO	L9-20P L920-P L920-FI

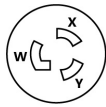
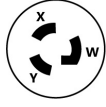
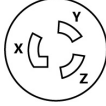
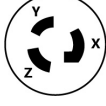
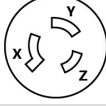
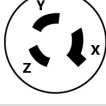
Voltage	Type	30 Amperes	
		Receptacle	Plug

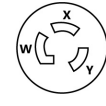
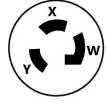
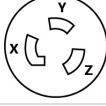
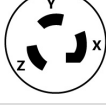
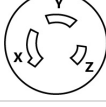
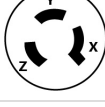
2 POLE, 3 WIRE, GROUNDED			
125V	L5	L5-30R L530-R L5-30C L530-FO 	L5-30P L530-P L530-FI 
250V	L6	L6-30R L630-R L6-30C L630-FO 	L6-30P L630-P L530-FI 
277V AC	L7	L7-30R L730-R L7-30C L730-FO 	L7-30P L730-P L730-FI 
480V AC	L8	L8-30R L830-R L8-30C L830-FO 	L8-30P L830-P L830-FI 
600V AC	L9	L9-30R L930-R L9-30C L930-FO 	L9-30P L930-P L930-FI 

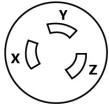
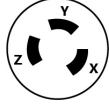
3 Pole, 3 Wire, Ungrounded Twist Lock

15 amp ↓ 20 amp ↓ 30 amp ↓

Voltage	Type	15 Amperes	
		Receptacle	Plug
3 POLE, 3 WIRE, UNGROUNDED			
125/250V	L10		
3 ∅ 250V	L11		
3 ∅ 480V	L12		
3 ∅ 600V	L13		

Voltage	Type	20 Amperes	
		Receptacle	Plug
3 POLE, 3 WIRE, UNGROUNDED			
125/250V	L10	L10-20R L1020-R L10-20C L1020-FO 	L10-20P L1020-P L1020-FI 
3 ∅ 250V	L11	L11-20R L1120-R L11-20C L1120-FO 	L11-20P L1120-P L1120-FI 
3 ∅ 480V	L12	L12-20R L1220-R L12-20C L1220-FO 	L12-20P L1220-P L1220-FI 
3 ∅ 600V	L13		

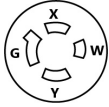

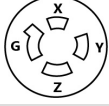

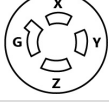

Voltage	Type	30 Amperes	
		Receptacle	Plug
3 POLE, 3 WIRE, UNGROUNDED			
125/250V	L10	L10-30R L1030-R L10-30C L1030-FO 	L10-30P L1030-P L1030-FI 
3 ∅ 250V	L11	L11-30R L1130-R L11-30C L1130-FO 	L11-30P L1130-P L1130-FI 
3 ∅ 480V	L12	L12-30R L1230-R L12-30C L1230-FO 	L12-30P L1230-P L1230-FI 

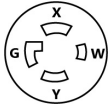

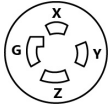
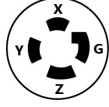
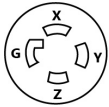
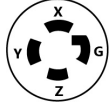
3 ∅ 600V	L13	L13-30R L1330-R L13-30C L1330-FO 	L13-30P L1330-P L1330-FI 
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3 Pole, 4 Wire, Grounded Twist Lock

15 amp ↓ 20 amp ↓ 30 amp ↓

Voltage	Type	15 Amperes	
		Receptacle	Plug
3 POLE, 4 WIRE, GROUNDED			
125/250V	L14		
3 ∅ 250V	L15		
3 ∅ 480V	L16		

Voltage	Type	20 Amperes	
		Receptacle	Plug
3 POLE, 4 WIRE, GROUNDED			
125/250V	L14	L14-20R L1420-R L14-20C L1420-FO 	L14-20P L1420-P L1420-FI 
3 ∅ 250V	L15	L15-20R L1520-R L15-20C L1520-FO 	L15-20P L1520-P L1520-FI 
3 ∅ 480V	L16	L16-20R L1620-R L16-20C L1620-FO 	L16-20P L1620-P L1620-FI 

Voltage	Type	30 Amperes	
		Receptacle	Plug
3 POLE, 4 WIRE, GROUNDED			
125/250V	L14	L14-30R L1430-R L14-30C L1430-FO 	L14-30P L1430-P L1430-FI 
3 ∅ 250V	L15	L15-30R L1530-R L15-30C L1530-FO 	L15-30P L1530-P L1530-FI 
3 ∅ 480V	L16	L16-30R L1630-R L16-30C L1630-FO 	L16-30P L1630-P L1630-FI 

4 Pole, 4 Wire, Ungrounded Twist Lock

15 amp ↓ 20 amp ↓ 30 amp ↓

Voltage	Type	15 Amperes	
		Receptacle	Plug
4 POLE, 4 WIRE, UNGROUNDED			
3 ∅Y 120/208V	L18		
3 ∅Y 277/480V	L19		
3 ∅Y 347/600V	L20		

Voltage	Type	20 Amperes	
		Receptacle	Plug
4 POLE, 4 WIRE, UNGROUNDED			

3 ∅Y 120/208V	L18	L18-20R L1820-R L18-20C L1820-FO	L18-20P L1820-P L1820-FI
3 ∅Y 277/480V	L19	L19-20R L1920-R L19-20C L1920-FO	L19-20P L1920-P L1920-FI
3 ∅Y 347/600V	L20	L20-20R L2020-R L20-20C L2020-FO	L20-20P L2020-P L2020-FI

Voltage	Type	30 Amperes	
		Receptacle	Plug
4 POLE, 4 WIRE, UNGROUNDED			
3 ∅Y 120/208V	L18	L18-30R L1830-R L18-30C L1830-FO	L18-30P L1830-P L1830-FI
3 ∅Y 277/480V	L19	L19-30R L1930-R L19-30C L1930-FO	L19-30P L1930-P L1930-FI
3 ∅Y 347/600V	L20	L20-30R L2030-R L20-30C L2030-FO	L20-30P L2030-P L2030-FI

4 Pole, 5 Wire, Grounded Twist Lock

15 amp ↓ 20 amp ↓ 30 amp ↓

Voltage	Type	15 Amperes	
		Receptacle	Plug
4 POLE, 5 WIRE, GROUNDED			
3 ∅Y 120/208V	L21		
3 ∅Y 277/480V	L22		
3 ∅Y 347/600V	L23		

Voltage	Type	20 Amperes	
		Receptacle	Plug
4 POLE, 5 WIRE, GROUNDED			
3 ∅Y 120/208V	L21	L21-20R L2120-R L21-20C L1820-FO	L21-20P L2120-P L2120-FI
3 ∅Y 277/480V	L22	L22-20R L2220-R L22-20C L2220-FO	L22-20P L2220-P L2220-FI
3 ∅Y 347/600V	L23	L23-20R L2320-R L23-20C L2320-FO	L23-20P L2320-P L2320-FI

Voltage	Type	30 Amperes	
		Receptacle	Plug
4 POLE, 5 WIRE, GROUNDED			
3 ∅Y 120/208V	L21	L21-30R L2130-R L21-30C L2130-FO	L21-30P L2130-P L2130-FI

3 ϕ Y 277/480V	L22	L22-30R L2230-R L22-30C L2230-FO	L22-30P L2230-P L2230-FI
3 ϕ Y 347/600V	L23	L23-30R L2330-R L23-30C L2330-FO	L23-30P L2330-P L2330-FI

Examples of Different Twist Lock Plug, Receptacle, and Connector Types

15 Amp Twist Lock Plug (L5-15 NEMA)



For a secure 15 amp twist lock plug connection, the L5-15 NEMA Turnlok locking plug, also called a lock in plug, is a popular choice for industrial and commercial applications. Able to withstand heavy vibration, movement, and harsh conditions while maintaining a reliable connection, the L5-15 NEMA twist lock plug (and corresponding twist lock receptacle or twist lock connector) is commonly used at construction sites, manufacturing and production facilities, HVAC installations, servers and data centers, medical facilities, and professional refrigeration units. The locking electrical plug mechanism and robust design make the locking 15-amp plug an important and effective part of both power supply and crucial equipment protection in places where accidents and faulty electrical distribution could prove extremely costly. Protect your personnel, valuable equipment, and systems with properly rated, NEMA-stamped locking plugs and receptacles!

20 Amp Twist Lock Receptacle (L5-20 NEMA)



For use with a matching 20 amp twist lock plug, the L5-20 NEMA 20 amp twist lock receptacle provides a dependable connection to protect your connected equipment and systems, perfect for commercial or industrial electrical applications. This easy-to-wire, NEMA-stamped twist lock receptacle meets UL 498 standards, with a proven 20 amp 3 wire twist lock receptacle design. Lockable L520 outlets can be used with industrial machinery, construction job sites, high-power air conditioners, backup power generators, and even stages, studios, and stadiums for lighting, sound equipment, and other specialty entertainment venues and attractions. They are also available in flush mount, surface mount, and weatherproof configurations. Twist or turn to lock matching L5-20 plugs into these locking receptacles and reliably prevent accidental disconnection in almost any busy environment, from commercial kitchens to industrial assembly plants and factories.

20 Amp Twist Lock Plug (L14-20 NEMA)



The NEMA L14-20 plug is a 20 amp twist lock plug (125/250 volt) commonly used in various industrial and commercial settings. It is constructed in a 20 amp 4 wire twist lock configuration. The advantages of this 20 amp locking plug include the secure locking mechanism that prevents accidental disconnection, ensuring reliable power for critical equipment. This makes the L14-20 ideal for applications like power generators (as a twist lock generator plug), large power tools and equipment, air compressors, HVAC systems, and some types of heavy-duty machinery. The L14-20 configuration has four pins arranged in a circular pattern: two hot pins, a neutral, and a ground. This twist lock plug and the corresponding L14 20 amp twist lock receptacle are designed for durability and safety in demanding environments.

NEMA Twist Lock Connector (L1430C, L520C, L530C, L620C, etc.)



Each type of NEMA twist lock connector is designed for a specific, matching twist lock plug. For example, the L1430C is a 30 amp, 125/250-volt twist lock connector commonly used for high-power equipment like air conditioners, generators, and machinery. The L520C is a 20 amp, 125-volt connector typically used for powering lighting, appliances, and portable tools on construction sites and stages. The L530C is a 30-amp, 125-volt connector ideal for heavy-duty appliances and tools that require more power than the L520C can provide. Finally, the L620C is a 20-amp, 250-volt twist lock connector commonly used in industrial settings to provide temporary power or connect appliances and tools that require more than a standard household outlet can provide. All of these locking electrical connectors feature a twist-lock mechanism, meaning there is no need for a twist lock plug. They are available in various configurations to match compatible twist lock plug configurations.

30 Amp Twist Lock Receptacle Comparison (L530R vs. L630R)



Both the L530R (125 volt) and L630R (250 volt) are examples of a NEMA 30 amp twist lock receptacle, designed for secure, reliable connections in demanding environments, but with the key difference of voltage rating (125V vs. 250V). As a 30 amp 4 wire twist lock receptacle, the L530R is commonly used for powering tools, appliances, and lighting that require a 30-amp circuit. It's suitable for indoor or outdoor settings where consistent power delivery and a locked connection are necessary. The L630R is also a 30 amp 4 wire twist lock receptacle, but rated for 250V and typically employed for higher-power equipment such as industrial machinery, welders, and larger power tools. It's crucial to note that the L630R is designed for a different voltage than the L530R, making them incompatible with each other to prevent accidental mismatches.

50 Amp Twist Lock Plug, Receptacle, and Connector Options



Each 50 amp NEMA twist lock plug, receptacle, and connector, such as those made by Legrand, Eaton, and Kellems, serves as an essential component for heavy-duty electrical applications like connecting RVs to a 50 amp 4 wire power inlet box, supplying temporary power at construction sites, and powering industrial equipment. These devices feature a locking mechanism that ensures a secure connection and prevents accidental disconnects. They are typically rated for 125/250 volts and come in various configurations, including a 50 amp twist lock plug female for connecting to a generator and a 50 amp 4 wire twist lock receptacle for connecting equipment. A 50 amp twist lock generator plug is a common type of plug used to connect a generator to the 50 amp 4 wire power inlet box. For safety reasons, it is important to consult a qualified electrician for proper installation and use of such high-power devices.

Adapters: Is it Safe to Use a Twist Lock Plug Adapter?

Short answer: No. It's best to use a dedicated twist lock plug or receptacle, like the ones shown on this page. Using a twist lock plug adapter instead of a true NEMA locking plug, receptacle, or connector can create several safety hazards. Firstly, a twist lock plug adapter may not provide a secure connection. If the adapter isn't fully twisted and locked into place, it could easily dislodge, leading to exposed wires and the risk of electrical shock. Secondly, a twist lock adapter often increases the distance between the plug and receptacle, adding strain to the connection and increasing the chance of the plug coming loose. For these reasons, reputable electrical parts manufacturers often do not offer any type of locking plug adapter. Finally, many adapters are not rated for the same voltage and amperage as a proper twist lock connection, meaning they could overheat, melt, or cause a fire, especially when used with high-power appliances. For instance, when it comes to aftermarket products that aren't truly UL-rated and NEMA-stamped, an adapter advertised as a 30 amp twist lock plug adapter may actually only perform safely at 15 or 20 amps, which could pose a serious danger.

Need a Lock In Plug, Twist Lock Receptacle, or Twist Lock Connector?

Turnlok® Twist Lock Locking Plugs



Turnlok® Twist Lock Locking Receptacles



Turnlok® Twist Lock Locking Connectors



Learn More About Our Other Products: [Non-Locking Plug & Receptacle Guide](#) • [Outlet & Switch Guide](#) • [Legrand Raceway Guide](#) • [Wire Splice & Connectors Guide](#) • [Electrical Panel & Circuit Breaker Guide](#) • [Electrical Boxes Guide](#) • [Raceway, Conduit, and Fittings Guide](#) • [Testers & Meters Guide](#) • [Electric Motor Supplies Guide](#) • [Electrical Wire and Cable Guide](#) • [Generator Guide](#) • [HVAC Guide](#) • [Fuse Guide](#) • [Lighting Automation Guide](#) • [Emergency Lighting Guide](#) • [Outdoor Lighting Guide](#) • [Light Bulbs Guide](#) • [Light Fixture Guide](#) • [Enclosure NEMA Type Protection Guide](#)

Warning: When using this information to perform electrical work, call a licensed electrician and consult the NEC® for safety. All licensed electricians have passed examinations covering the National Electric Code®, know state and local building codes, and may carry insurance to cover damages.