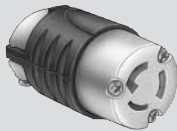


About NEMA Turn-Lock Plugs, Connectors, and Receptacles



Plug



Connector



Receptacle

Filled Slots Depict Plugs



Hollow Slots Depict Connectors/Receptacles



Turn-lock plugs, connectors, and receptacles lock firmly together with just a twist to prevent accidental disconnection. They conform to National Electrical Manufacturers' Association (NEMA) requirements. The diagrams below show the NEMA configurations for plugs and connectors/receptacles. Different NEMA turn-lock styles are not compatible; for example, an L5-15 plug will not fit an L5-20 receptacle. If you are buying a plug, the NEMA style must match your existing NEMA connector or receptacle (see page 786 for non-NEMA styles or page 787 for NEMA straight-blade styles).

First, check the device you want to replace for a NEMA-style number. It may have a NEMA number ending with a "P," "C," or "R" signifying either a plug, connector, or receptacle. For example, an L5-15P is an L5-15 plug. If there is no style number, match the plug, connector, or receptacle you're replacing to a diagram in the chart below, making sure the voltage and amp ratings match your requirements.

Poles—The number of terminals to which current-carrying (power) conductors are connected.

Wires—The total number of poles plus an equipment grounding connection. Also corresponds to the total number of blades/pins on a plug.

Three Blades—Two Power Plus One Ground (Two Pole, Three Wire)

| | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 125 VAC, 15 Amps L5-15 | 125 VAC, 20 Amps L5-20 | 125 VAC, 30 Amps L5-30 | 250 VAC, 15 Amps L6-15 | 250 VAC, 20 Amps L6-20 |
| 250 VAC, 30 Amps L6-30 | 277 VAC, 15 Amps L7-15 | 277 VAC, 20 Amps L7-20 | 277 VAC, 30 Amps L7-30 | |
| 480 VAC, 20 Amps L8-20 | 480 VAC, 30 Amps L8-30 | 600 VAC, 20 Amps L9-20 | 600 VAC, 30 Amps L9-30 | |

Four Blades—Three Power Plus One Ground (Three Pole, Four Wire)

| | | | |
|------------------------------------|------------------------------------|--------------------------------|--------------------------------|
| 125/250 VAC, 20 Amps L14-20 | 125/250 VAC, 30 Amps L14-30 | 250 VAC, 20 Amps L15-20 | 250 VAC, 30 Amps L15-30 |
| 480 VAC, 20 Amps L16-20 | 480 VAC, 30 Amps L16-30 | 600 VAC, 30 Amps L17-30 | |

Five Blades—Four Power Plus One Ground (Four Pole, Five Wire)

| | | | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| 120/208 VAC 20 Amps L21-20 | 120/208 VAC 30 Amps L21-30 | 277/480 VAC 20 Amps L22-20 | 277/480 VAC 30 Amps L22-30 | 347/600 VAC 20 Amps L23-20 | 347/600 VAC 30 Amps L23-30 |
|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|

Two Power Blades (Two Pole, Two Wire)

| | |
|-------------------------------|-------------------------------|
| 125 VAC, 15 Amps L1-15 | 250 VAC, 20 Amps L2-20 |
|-------------------------------|-------------------------------|


















Three Power Blades (Three Pole, Three Wire)



















| | |
|------------------------------------|------------------------------------|
| 125/250 VAC, 20 Amps L10-20 | 125/250 VAC, 30 Amps L10-30 |
|------------------------------------|------------------------------------|



















Four Power Blades (Four Pole, Four Wire)

| | | | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| 120/208 VAC 20 Amps L18-20 | 120/208 VAC 30 Amps L18-30 | 277/480 VAC 20 Amps L19-20 | 277/480 VAC 30 Amps L19-30 | 347/600 VAC 20 Amps L20-20 | 347/600 VAC 30 Amps L20-30 |
|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|

















NEMA Plug & Receptacle Configurations







| 15 AMP | 2 pole 2 wire | | 2 pole 3 wire grounding | | | 3 pole 3 wire | | 3 pole 4 wire grounding | | 4 wire |
|------------|--|--|--|--|--|---------------|---|---|---|---|
| | 125V | 250V | 125V | 250V | 277V | 125/250V | 30 250V | 125/250V | 30 250V | 30 120/ 208V |
| Receptical |  1-15R | |  5-15R |  6-15R |  7-15R | |  11-15R |  14-15R |  15-15R |  18-15R |
| Plug |  1-15P |  2-15P |  5-15P |  6-15P |  7-15P | |  11-15P |  14-15P |  15-15P |  18-15P |

| 20 AMP | 2 pole 2 wire | | 2 pole 3 wire grounding | | | 3 pole 3 wire | | 3 pole 4 wire grounding | | 4 wire |
|------------|---------------|--|--|--|--|---|--|---|---|---|
| | 125V | 250V | 125V | 250V | 277V | 125/250V | 30 250V | 125/250V | 30 250V | 30 120/ 208V |
| Receptical | |  2-20R |  5-20R |  6-20R |  7-20R |  10-20R |  11-20R |  14-20R |  15-20R |  18-20R |
| Plug | |  2-20P |  5-20P |  6-20P |  7-20P |  10-20P |  11-20P |  14-20P |  15-20P |  18-20P |

| 30 AMP | 2 pole 2 wire | | 2 pole 3 wire grounding | | | 3 pole 3 wire | | 3 pole 4 wire grounding | | 4 wire |
|------------|---------------|--|--|--|--|---|--|---|---|---|
| | 125V | 250V | 125V | 250V | 277V | 125/250V | 30 250V | 125/250V | 30 250V | 30 120/ 208V |
| Receptical | |  2-30R |  5-30R |  6-30R |  7-30R |  10-30R |  11-30R |  14-30R |  15-30R |  18-30R |
| Plug | |  2-30P |  5-30P |  6-30P |  7-30P |  10-30P |  11-30P |  14-30P |  15-30P |  18-30P |

| | | | | |
|--|---|---|--|---|
| |  |  |  |  |
|--|---|---|--|---|

| 50 AMP | 2 pole 3 wire grounding | | | 3 pole 3 wire | | 3 pole 4 wire grounding | | 4 wire |
|-----------------------------|--|--|--|---|---|--|---|---|
| 50 AMP Receptical |  5-50R |  6-50R |  7-50R |  10-50R |  11-50R |  14-50R |  15-50R |  18-50R |
| Plug |  5-50P |  6-50P |  7-50P |  10-50P |  11-50P |  14-50P |  15-50P |  18-50P |

| 60 AMP | 3 pole 4 wire grounding | | 4 wire |
|---------------|---|---|---|
| | 125/250V | 30 250V | 30 120/208V |
| Receptical |  14-60R |  15-60R |  18-60R |
| Plug |  14-60P |  15-60P |  18-60P |