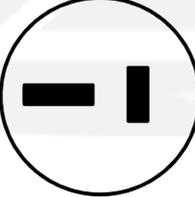


# NEMA Straight-Blade Plug and Receptacle Configurations

## Codes & Standards

Electrical plugs and receptacles are designed in specific configurations to match defined voltage and amperage ratings. Industrial equipment often requires higher-capacity circuits than standard household applications. ANSI/NEMA WD 6-2021 establishes configuration standards to prevent unsafe interchangeability by ensuring plugs and receptacles are physically matched to their electrical ratings. The tables below identify common NEMA straight-blade configurations and specifications.

### Two-Pole, Two-Wire

NEMA Number	Voltage	Amperage	Configuration	Application Notes
1	125v	15		<b>1-15 plugs and receptacles</b> <ul style="list-style-type: none"> <li>• Old wall outlets</li> <li>• Some small appliance plugs</li> </ul>
2	250v	20		<b>2-20 plugs and receptacles</b>

### Two-Pole, Three-Wire, Grounding

NEMA Number	Voltage	Amperage	Configuration	Application Notes
5	125v	15		<b>5-15 plugs and receptacles</b> <ul style="list-style-type: none"> <li>• Wall outlets and most household appliances</li> </ul>

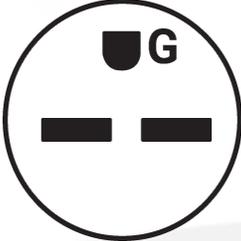
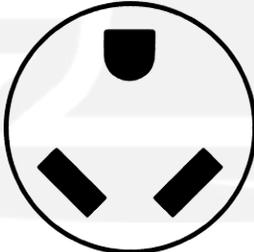
# NEMA Straight-Blade Plug and Receptacle Configurations

Two-Pole, Three-Wire, Grounding

NEMA Number	Voltage	Amperage	Configuration	Application Notes
5	125v	20		5-20 plugs and receptacles
		30		5-30 plugs and receptacles
		50		5-50 plugs and receptacles
6	250v	15		6-15 plugs and receptacles • Air conditioners
		20		6-20 plugs and receptacles • Air conditioners, power tools

# NEMA Straight-Blade Plug and Receptacle Configurations

Two-Pole, Three-Wire, Grounding

NEMA Number	Voltage	Amperage	Configuration	Application Notes
6	125v	30		<b>6-30 plugs and receptacles</b> <ul style="list-style-type: none"> <li>• Air conditioners</li> </ul>
		50		<b>6-50 plugs and receptacles</b> <ul style="list-style-type: none"> <li>• Some EV chargers</li> </ul>
7	277V	15		<b>7-15 plugs and receptacles</b> <ul style="list-style-type: none"> <li>• Some high-powered lighting</li> </ul>
TT	125 AC	30		<b>TT-30 plugs and receptacles</b> <ul style="list-style-type: none"> <li>• RVs and trailers</li> </ul>

# NEMA Straight-Blade Plug and Receptacle Configurations

## Three-Pole, Three-Wire

NEMA 10 has been deprecated for new installations since the National Electrical Code (NEC) of 1996. NEMA 14 plugs and receptacles are comparable but with the addition of a ground connection.

NEMA Number	Voltage	Amperage	Configuration	Application Notes
10	125 / 250V	20		<b>10-20 plugs and receptacles</b> <ul style="list-style-type: none"> <li>• Clothes dryers and kitchen ranges</li> </ul>
		30		<b>10-30 plugs and receptacles</b> <ul style="list-style-type: none"> <li>• Clothes dryers and kitchen ranges</li> </ul>
		50		<b>10-50 plugs and receptacles</b> <ul style="list-style-type: none"> <li>• Clothes dryers and kitchen ranges</li> </ul>

# NEMA Straight-Blade Plug and Receptacle Configurations

Three-Pole, Four-Wire, Grounding

NEMA Number	Voltage	Amperage	Configuration	Application Notes
14	125 / 250V	20		14-20 plugs and receptacles
		30		14-30 plugs and receptacles • Clothes dryers, some EV chargers
		50		14-50 plugs and receptacles • Ovens, some EV chargers, RVs, portable generators, commercial audio and lighting
		60		14-60 plugs and receptacles

# NEMA Straight-Blade Plug and Receptacle Configurations

Three-Pole, Four-Wire, Grounding

NEMA Number	Voltage	Amperage	Configuration	Application Notes
15	3 $\emptyset$ 250V	20		15-20 plugs and receptacles
		30		15-30 plugs and receptacles
		50		15-50 plugs and receptacles
		60		15-60 plugs and receptacles

# NEMA Straight-Blade Plug and Receptacle Configurations

Three-Pole, Four-Wire, Grounding

NEMA Number	Voltage	Amperage	Configuration	Application Notes
18	3 $\emptyset$ Y 120 / 208V	20		18-20 plugs and receptacles
		50		18-50 plugs and receptacles
		60		18-60 plugs and receptacles