Decoding NEMA plugs and receptacles

If you've ever had trouble figuring out the NEMA (National Electrical Manufacturers Association) pattern and numbering system on a particular device, you aren't alone. Comprised of four major identifiers, the combination of numbers and letters can appear more like alphabet soup than a structured electrical specification.

Rest assured, there is a simple way to decode plug patterns and connections, making proper specification a breeze. The first identifier, which is either a blank space or an "L," indicates whether the plug is a straight or locking blade device (with "L" being locking).

The second identifier, which is a number, assigns the voltage rating; for example, a "5" represents a voltage rating of 125 Vac and a "6" denotes a rating of 250 Vac. The rating given is the highest voltage allowed for the device. Please refer to the accompanying chart to see other voltage ratings.

The third identifier, also a number, identifies the highest amperage rating allowed for use with the device.

Finally, the fourth identifier is a letter that determines whether the device is a plug ("P") or a receptacle/outlet ("R").

For a printable pdf of this chart, please refer to the Sales Tools section of our web site.

