

## ***Product Safety Tips - Extension Cords***

If a power tool is drawing more current than an extension cord can carry, it may cause the cord and tool to overheat and create a fire. Before using any extension cord to help power an electrical tool or appliance, the safety professionals at UL encourage consumers to consider three important questions:

- Will I use the cord indoors or outdoors?
- What is the total wattage rating of the appliances I will use with the cord?
- How far is the nearest outlet from where I will be working?

Extension cords are labeled with valuable information as to the use, size and wattage rating of the cord. Cords are offered in many lengths and are marked with a size or "gauge." The gauge is based on the American Wire Gauge (AWG) System, in which the larger the wire, the smaller the AWG number. For example, a 12 gauge wire would be larger and can power larger wattage appliances than a 14 gauge wire.

Before deciding which extension cord to use, first carefully read the manufacturer's instructions for the power tools you will be using. These booklets contain important information about your tools and will provide instructions on their use.

The booklets will also indicate whether the tools are suitable for use outdoors. Likewise, the first step in determining which extension cord you will need is to decide whether you will be using the appliance indoors or outdoors. Extension cords that can be used outdoors will be clearly marked "Suitable for Use with Outdoor Appliances." Never use an indoor extension cord outdoors; it could result in an electric shock or fire hazard.

To determine what size, or gauge cord is needed, you will also have to determine the cord's length. A cord, based on its gauge, can power an appliance of a certain wattage only up to specific distances. As the cord gets longer, the current carrying capacity of the cord gets lower. For example, a 16 gauge extension cord less than 50 feet in length can power a 1625 watt (W) appliance. A 16 gauge cord that is longer than 50 feet in length can only power an appliance up to 1250W.

All appliances indicate how much wattage is consumed when operated. That rating can be found on the appliance itself and often within the use and care booklet that accompanies the product. Other appliances will indicate power usage in amps rather than watts.

Quick tip: if your appliance indicates that it uses 5 amps at 125 volts, then its wattage rating is 625W (5x125).

If you are going to use the extension cord with two or more appliances, you must add together the wattage rating for all appliances used on the cord. The total of those wattage ratings will help you determine which gauge size you will need.

## Important safety instructions

- Look for the UL Mark on extension cords you purchase. The UL Mark means that representative samples of the cord have been tested for foreseeable safety hazards.
- Store all cords indoors when not in use. Outdoor conditions can deteriorate a cord over time.
- Never keep an extension cord plugged in when not in use. The cord will still conduct electricity until it is unplugged from the outlet.
- Make sure to use the covers for any of the cord's outlets that are not being used. Children and pets face serious injury if they chew on unused outlets or stick sharp metal objects into the openings.
- Do not use extension cords that are cut or damaged. Touching even a single exposed strand of wire can give you an electric shock or burn.
- Never file or cut the plug blades or grounding pin of an extension cord or appliance to plug it into an old outlet.
- As a safety feature, extension cords and most appliances have polarized plugs (one blade wider than the other). These special plugs are designed to prevent electric shock by properly aligning circuit conductors. If a plug does not fit, have a qualified electrician install a new outlet.
- Only use the plug to plug and unplug the extension cord; never pull on the cord as this can damage the plug and cause an electrical short.
- Inspect the label carefully to make sure it has a legitimate UL Mark. If it or the quality of the product looks suspicious it may be counterfeit and should be reported to the seller for further investigation.

By using extension cords properly, you and your family can enjoy safer use of your power tools and garden appliances for an extended period of time.