



Read and discuss the material on this page. Use the picture to reinforce the text. Read and discuss the material on this page. Use the picture to reinforce the text.



The three basic kinds of plugs are: self-connecting, terminal-screw, and three-prong. Lamps and small appliances mostly use self-connecting plugs. The prongs clamp onto the wires of the cord, making an automatic connection. These plugs do not mec. National Electrical Code standards.

With terminal-screw plugs, the wires attach to screws inside the cord body; this type of plug is usually found on older appliances. An older terminal-screw plug often has a removable insulating disk covering the terminals and wires. Never plugs have rigid insulating barriers.

Three-prong plugs are used for larger appliances such as washers, dryers, refrigerators, and power tools, and include a prong that grounds the appliance. When planning where you are going to place a large appliance, be sure you have the appropriate kind of outlet available, or plan to install one. Grounded outlets are required to be installed.

The two most common types of single conductor wires are THW and THMN/THHM, which are protected by metal or plastic sheathing. The wires themselves can be either solid or stranded, Solid-core wire produces the best connections, but its stiffness makes it more difficult than stranded wire to route through conduit. You can purchase wire by the foot or in spools that range from 501 to 500 feet. Depending on your installation, make sure to check the rating for indoor or outdoor application as well as for temperature to letance foome wire can withstand heat up to 157 degrees Fahrenheit).

The most common multi-conductor cable is made from metal or plastic and contains a neutral wire, a "hort" wire (or two), and a grounding wire. The neutral and hot wires are insulated by a thermoplastic material; the grounding wire may or my not be inculated. The wires are color-coded to guard against connection errors. Neutral wires are white or gray, grounding wires are green, and two wires are any other color.

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Read and discuss the material on this page. Use the picture to reinforce the text. Discuss where each of these types of plugs would be found, and why.

Read and discuss the material on this page. Use the picture to reinforce the text. Talk about the wires shown here and then explain that the third one from the top is commonly called "Romex" which is, or was, a common brand of NM wire. It is very commonly used in homes.