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## **How to Order Shielded Power Cords from Mouser.com**

Here are the most common shielded cords<sup>1</sup> that I order from [www.Mouser.com](http://www.Mouser.com) to shield lamps<sup>2</sup> and make shielded extension cords<sup>3</sup>. These are the longest available (almost 10 feet). They contain a shielding layer outside, plus hot, neutral and ground wires inside (not necessarily with standard US color codes<sup>4</sup>). Part numbers and prices can change. *If you are unsure about anything electrically, please check with your electrician.*

**14 gauge shielded cord** (rated for 15 amp max – best choice for making extension cords)

Mouser #: 686-17605

Mfr. #: 17605 10 B1 (approximately \$18 each)

Desc.: AC Power Cords 14AWG SJT 9FT 10IN (3.0m) BLK

**16 gauge shielded cord** (rated for 13 amp max)

Mouser #: 686-17603

Mfr. #: 17603 10 B1 (approximately \$11 each)

Desc.: AC Power Cords 16AWG SJT 9FT 10IN (3.0m) BLK

**18 gauge shielded cord** (rated for 10 amp max – okay for lamps, and low watt devices)

Mouser #: 686-17601

Mfr. #: 17601 10 B1 (approximately \$10 each)

Desc.: AC Power Cords 18AWG SJT 9FT 10IN (3.0m) BLK

*Note 1: You can use these shielded cords to replace the unshielded cords on lamps and appliances, or for making your own shielded extension cords. (If the shielded cord comes with the C13 Receptacle end, simply cut it off. To make an extension cord, get an American 3-Prong Receptacle End from a hardware store and add it to the end of the shielded cord.)*

*Note 2: It is important to ground the threaded metal spindle inside the lamp fixture also.*

*Note 3: Always be careful to get a cord with a big enough wire size for your purpose. If the wire size is too small, it can overheat and cause a fire. Note that 14 gauge is actually the biggest wire (and thus the safest), and 18 gauge is actually the smallest.*

*Note 4: Always be very careful to wire your lamps and extension cords correctly. The shielded cords may not have the standard American color coding, which is black for hot, white for neutral, and green for ground). For example, in Europe, brown is the hot, blue is the neutral and green/yellow is ground. If you are unsure, consult with an electrician.*