

---

Subject: Re: What In-wall AWG to use?

Posted by [Wayne Parham](#) on Thu, 23 Feb 2012 21:26:27 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Depends on how long the wire run will be. A good rule is to keep speaker wire resistance under 1/10th the load impedance. You can use a resistance chart to calculate it, given length and gauge. But don't forget that the line is a conductor pair, so double the length when calculating resistance.

Wire Calculator There's no disadvantage using a wire that's too large, but there is if it's too small. Best to get the biggest stranded copper wire you can get, although there does come a point of diminishing returns. I tend to find the minimum wire size needed, then go up a size or two. So, for example, an 18 gauge wire will support about 50 feet runs, but I'd probably go with 14 gauge or 16 gauge anyway. If I had to buy a ton of it though, and the budget started dictating choices, then 18 gauge would suffice.

---