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Subject: Re: Will Longer Wires Reduce Sound Quality?  
Posted by [Adveser](#) on Wed, 16 Mar 2011 02:47:36 GMT  
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I am going to disagree with that and point to this section of the wikipedia article on speaker wire:

Quote:Speaker wire capacitance and inductance normally have no effect on audio quality, though extreme examples using unusually low-impedance speakers and exceptionally long wire runs can show a small effect.

[http://en.wikipedia.org/wiki/Speaker\\_wire](http://en.wikipedia.org/wiki/Speaker_wire)

For the record, we all know Wiki is an awful non-academic source, but it had the info I needed.

Included in the article is the chart of recommended lengths vs. gauge.

Maximum wire lengths for two conductor copper wire[3]

22 AWG (0.326 mm <sup>2</sup> )	3 ft (0.9 m)	6 ft (1.8 m)	9 ft (2.7 m)	12 ft (3.6 m)
20 AWG (0.518 mm <sup>2</sup> )	5 ft (1.5 m)	10 ft (3 m)	15 ft (4.5 m)	20 ft (6 m)
18 AWG (0.823 mm <sup>2</sup> )	8 ft (2.4 m)	16 ft (4.9 m)	24 ft (7.3 m)	32 ft (9.7 m)
16 AWG (1.31 mm <sup>2</sup> )	12 ft (3.6 m)	24 ft (7.3 m)	36 ft (11 m)	48 ft (15 m)
14 AWG (2.08 mm <sup>2</sup> )	20 ft (6.1 m)	40 ft (12 m)	60 ft (18 m)*	80 ft (24 m)*
12 AWG (3.31 mm <sup>2</sup> )	30 ft (9.1 m)	60 ft (18 m)*	90 ft (27 m)*	120 ft (36 m)*
10 AWG (5.26 mm <sup>2</sup> )	50 ft (15 m)	100 ft (30 m)*	150 ft (46 m)*	200 ft (61 m)*

\* While in theory heavier wire can have longer runs, recommended household audio lengths should not exceed 50 feet (15 m).

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