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

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 mm2) 3 ft (0.9 m) 6 ft (1.8 m) 9 ft (2.7 m) 12 ft (3.6 m)
20 AWG (0.518 mm2) 5 ft (1.5 m) 10 ft (3 m) 15 ft (4.5 m) 20 ft (6 m)
18 AWG (0.823 mm2) 8 ft (2.4 m) 16 ft (4.9 m) 24 ft (7.3 m) 32 ft (9.7 m)
16 AWG (1.31 mm2) 12 ft (3.6 m) 24 ft (7.3 m) 36 ft (11 m) 48 ft (15 m)
14 AWG (2.08 mm2) 20 ft (6.1 m) 40 ft (12 m) 60 ft (18 m)* 80 ft (24 m)*
12 AWG (3.31 mm2) 30 ft (9.1 m) 60 ft (18 m)* 90 ft (27 m)* 120 ft (36 m)*
10 AWG (5.26 mm2) 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).