

MOST EXPERTS AGREE:

IF

Correction

... to *Getting a Perspective on Noise in Audio Systems*, by Philip Giddings, Fall 1991 Issue of *Professional Sound*. Page 46 should read as follows:

10. What is the length of the interconnect?
 - balanced, low impedance:
 - less than 20 ft: 2 points
 - 20-50 ft: 0 points
 - greater than 50 ft: 0 points
 - balanced, not low impedance:
 - less than 20 ft: 2 points
 - 20-50 ft: 0 points
 - greater than 50 ft: -2 points
 - unbalanced:
 - less than 20 ft: -1 points
 - 20-50 ft: -2 points
 - greater than 50 ft: -4 points

UND
ACK

ONE.

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GETTING A PERSPECTIVE ON NOISE IN AUDIO

10. What is the length of the interconnect?

balanced, low impedance:

- less than 20 ft: 2
- 20-50 ft: 0
- greater than 50 ft: -4

balanced, not low impedance:

- less than 20 ft: 2
- 20-50 ft: 0
- greater than 50 ft: 0

unbalanced:

- less than 20 ft: -1
- 20-50 ft: -2
- greater than 50 ft: -4

11. Has separation and routing been used to advantage?

- yes 2 points
- no -1 point

While this table may be an oversimplification, I believe it will predict EMI potential for most typical audio systems found today. I hope the results from the table combined with some common-sense tempering (to be discussed in a follow-up article) will prove to be useful and practical in evaluating EMI considerations in audio.

Readers who would like more information on this subject may refer to the following:

■ Giddings, P.: *Audio Systems Design and Installation*. H.W. Sams and Company, Indianapolis IN, 1990

■ Giddings, P.: "An Introduction to Electromagnetic Interference and Electromagnetic Compatibility for Audio System Designers." *Journal of the Audio Engineering Society*, Vol 37. No 7/8 (July/August) 1989.

■ Haskett, T.R.: "Removing the Mystery from Grounding", *Broadcast Engineering*, Feb. 1966:17-28.

■ IEEE Guide to the Installation of Electrical Equipment to Minimize Electrical Noise Inputs to Controllers from External Sources, IEEE STD 518-1982. New York: IEEE Inc.

■ Lanphere, J.E.: "A Practical Approach to Grounding", *Recording Engineer/Producer*, Jan. 1988.

■ US Department of Standards: *Guideline on Electrical Power for ADP Installations*. FIPS PUB 94. Springfield VA 1983.

Toronto-based Phil Giddings operates an independent audio system design and project management firm called Engineering Harmonics.

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