

## Using this Information

When considering how to best use this information, review your interconnect hardware based on the following table and adjust your design accordingly. The table has been assembled to quantify the information in this article and the references.

Your probability for success based on the score is as follows:

+10	excellent
+5	good
0	questionable
-5	poor
-10	futile

1. Does the system have a dedicated technical ground system?

yes: 3 points  
no: -3 points

2. Does the system have a dedicated technical power system or a source of clean power?

yes: 2 points  
no: -2 points

3. Is the interconnect balanced?

yes (actively): 3 points  
yes (with a transformer): 6 points  
no: -6 points

4. Is the interconnect low-impedance?

yes: 2 points  
no: -1 point

5. What is the nominal interconnect level?

low (-60 dBv): -2 points  
medium (-20 dBv): 0 points  
high (+4 dBv): 2 points

6. Is the cable shielded?

for high impedance interconnect (greater than 1 Kohm):

Foil: 4 points  
Braid: 1 point  
none: -4 points

for low impedance interconnect (less than 1 Kohm):

Foil: 2 points  
Braid: 2 points  
none: -2 points

7. Is the cable twisted?

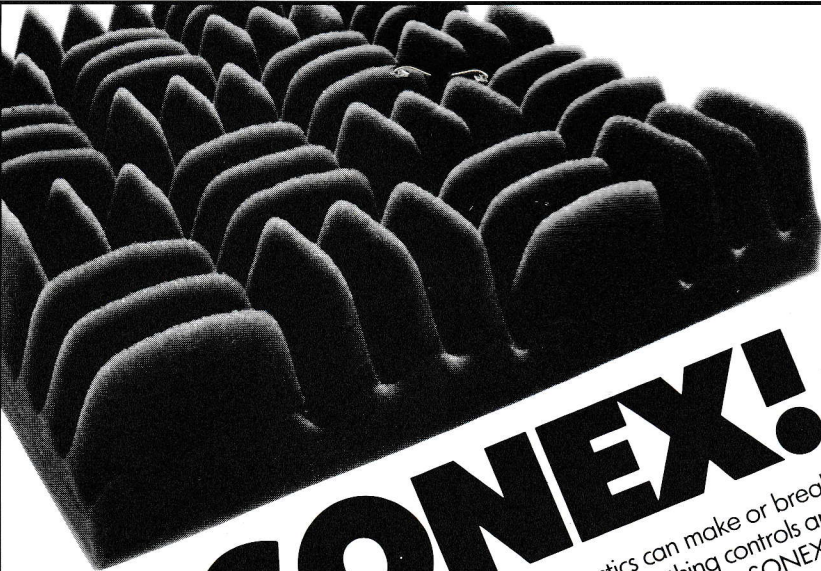
+1 twist/inch: 2 points  
-1 twist/inch: 1 point  
no: -4 points

8. What is the surrounding EMI environment? (A very hostile environment would be one with considerable dimmed lighting, nearby high power RF transmitters or nearby heavy industry.)

Very hostile: -10 points  
Hostile: -5 points  
Average: 0 points  
Mild: 5 points

9. What is the system's dynamic range?

less than 60 dB: 2 points  
around 75 dB: 0 points  
greater than 90 dB: -2 points



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