

## Balanced and Unbalanced Connections

Mike Rivers

The meaning and significance of balanced and unbalanced connections is one of the most misunderstood concepts in audio. It's also somewhat difficult to explain because there are many variations of the balanced topology as well as several possible ways to a balanced and an unbalanced device. Balanced connections have a long history, dating back to telephony. The phone company runs miles and miles of unshielded cable, not even twisted in pairs with very little hum or noise, yet sometimes we can't seem to connect two devices in our studio with ten feet of boutique cable without hum. Some things are just better balanced than others, and there are right and wrong ways of making connections.

### A Few Myths, Half Truths, and Misconceptions

Old stories die hard. To begin, let's clear up a few misconceptions that at one time had some basis in fact.

- Unbalanced inputs and outputs are high impedance. Nope. Some unbalanced inputs and outputs are high impedance, but today these are nearly exclusively limited to musical instrument pickups. Why? Because they've always been that way, based on how instrument amplifiers and pickups were built back in the dark ages.
- Balanced inputs and outputs are low impedance, and therefore hum less. Partially true. Most balanced outputs are low impedance. Most balanced inputs are medium impedance. They can hum just as badly as anything else when improperly connected.
- Balanced connections are "professional." Unbalanced connections are strictly for consumer or "prosumer" gear. This was close to true in the early days of project studio gear but it's no longer so. The lines between "pro" and "consumer" are too blurry to try to make this generalization.
- If you connect a balanced output to an unbalanced input you'll lose half the level. Sometimes, sometimes not. It depends on the output topology.

Now, on with the show.

### Topology?

That's a ten dollar word but it's becoming pretty common when talking about networking, and that's something we talk about quite a bit these days. In the context of

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