

Re: LVDS over non-twisted flat ribbon cable

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- *From:* Rene Tschaggelar <none@xxxxxxxx>
 - *Date:* Wed, 16 Jul 2008 22:49:45 +0200
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John Larkin wrote:

On Wed, 16 Jul 2008 10:47:30 +0200, Rene Tschaggelar <none@xxxxxxxx> wrote:

I'm lacking the experience of LVDS over flat ribbon cable that should be twisted, but is not. Different pairs will couple with the next and with the outside depending on frequency and length, but by how much ? The motivation for the question comes from the rather limited number of possible crimping locations a twisted ribbon cable provides. Whereas a flat ribbon cable can be crimped at any arbitrary millimeter.

I'd be using it for short runs, below 0.5m altogether

Rene

What's your data rate, and what parts will you be using?

That length will be fine for most things short of the ultra-speed stuff. It's recommend 3 or 4 wires per LVDS pair, with a ground between a pair and anything else

gnd a+ a- gnd b+ b- gnd ...

The really fast stuff might get nasty over a half meter of standard ribbon cable.

John

Thanks John,
It'll be 20MHz to 60MHz or so. The parts will be

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65LVDS1 @ 65LVDS2. They'll synchronize different subsystems in a distributed setup.

Rene

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Ing. Buero R. Tschaggelar – <http://www.ibrtse.com>
& commercial newsgroups – <http://www.talkto.net>

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