

Re: specifying Really Long serial cable

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From: Andrey (a8421_at_intergate.bc.ca)

Date: 10/19/04

Date: Mon, 18 Oct 2004 17:59:21 -0700

Gentlemen,

thank you all for the comments, I learned a lot.

Sincerely,

Andrey

"Guy Macon" <<http://www.guymacon.com>> wrote in message
news:10n6phm6j849s57@news.supernews.com...

>

> Andrey <a8421@intergate.bc.ca> says...

>

> >what would be wise recommendations for 100 ft long Serial cable.

> >

> >should it be shielded or not? (from interference point of view it should.

> >But capacitance per length will go up. ??)

> >

> >Is there any reason not to use heavier gauge wires?

> >

> >What would be good cable for extended temperature range (-40C to +70C)

and

> >outsides (Sun, rain included)

>

> What baud rate? TXD and RXD only, or handshaking?

>

> Cat5 outdoor cable will handle the weather just fine and makes a fine

> RS232 cable.

>

> You can put the cable inside a PVC pipe or inside a high-quality

> garden hose for protection against weather or physical damage.

> Better yet would be a grounded metal pipe.

>

> Interference won't be a big problem. Ground currents might be.

> How sure are you that there isn't a voltage between the grounds

> at the two ends?

>

> What I would be concerned about most would be lightning strikes.

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- > *Do you have a plan to protect your equipment?*
- >
- > *You really should consider putting optically Isolated RS-232 to*
- > *RS-422/485 Converters on both ends. Start here:*
- > http://www.bb-elec.com/technical_library.asp
- > http://www.bb-elec.com/product_family.asp?familyid=14
- >
- > --
- > *Guy Macon* <<http://www.guymacon.com>>
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