Re: How much Voltage Drop is acceptable for computers? Outdoor Desktop Office

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From: ~Dude17~ (*dude17_at_sacbeemail.com*)
Date: 08/29/04

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X−No−Archive: Yes

dubspam@yahoo.com (Dubs) wrote in message
news:<e3d356cd.0408281943.5dd6bcb0@posting.google.com>...
> Hello, I'm not very good with basic electricity, but I'm interested in
> running a 200 − 250 ft cable, probably Underground UFB cable as
> opposed to an extension cord. I want to run a 17" monitor, a desktop
> computer, and 2 or 3 flourescent bulbs. I'm not really to concerned
> about the lifespan of my computer's power supply or my monitor. That
> stuff is next to free for me. What I'm more worried about is the
> money to buy the cable. Is 12 guage cable acceptable? Do I have to
> use 10 guage? Are there any fire risks involved if this is all
> plugged into a circuit breaker? Does anybody know about any good
> deals on cable?
>
> Thanks Folks

Computer power supplies are often rated for 90 to 132V and usually exactly twice that with switch in 230V position. Many monitors are rated for full range 90 to 264V. Use a good power supply though. Cheap power supplies often have a narrower tolerance and when you go out of the band, your PC will crash or reboot. Because of the way computer draws current, power factor is about 0.6. Because it's crest factor is so high, peak current can be over 3 to 1. Thin wiring will result in high harmonic distortions at the line end making the top and bottom of sinewave closer to a shape of mesa.