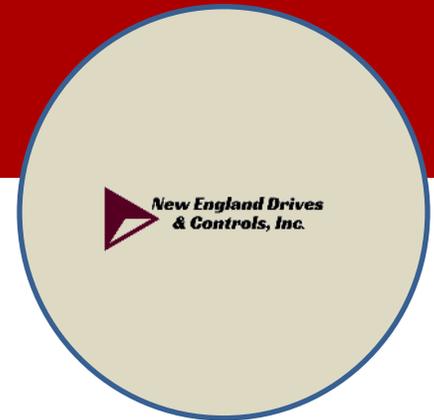


Connections

Want Some Meatballs with That?



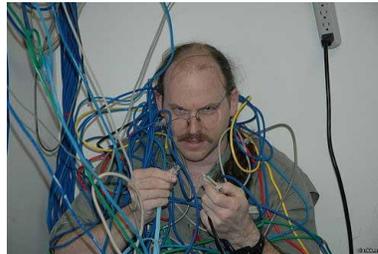
For every minute spent organizing, an hour is earned.

- Benjamin Franklin

As New England Drives & Controls constantly strives to become a better asset to our customers, our whitepaper series will feature new technologies or helpful insights that may be pertinent to the reader. It is our sincere hope that this information will be beneficial in both relating, and applying content to your industrial needs.

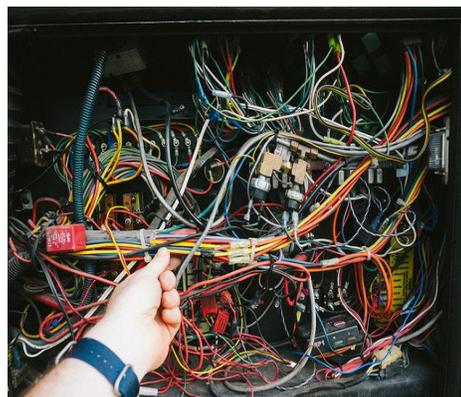
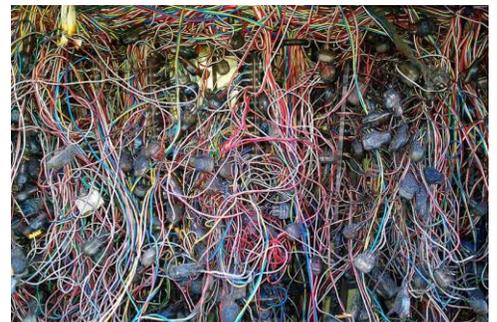
We hope you find this whitepaper series an enjoyable and informative read.

We always welcome your questions and comments.



We've all seen a control cabinet or a server rack that was out of control with wires everywhere; The proverbial wire "rat's nest."

But imagine if you will, being the person who has to check the wiring to a proximity sensor going to a controller, and the wire is somewhere in that bundle. Point to point wiring



will work. Maybe the first time if you were really diligent and were super careful. But what about when something fails or doesn't work? Troubleshooting can be substantially harder than building in the first place! Even if you labeled everything,

used zip ties, and tried to bundle everything nicely, point to point wiring will eventually cost more when the time comes to enact a repair. Now I realize the above examples are really stretching it; (even though I'd be willing to bet that you may have seen something similar in your travels at least once.) Let's take a look at a few more "realistic examples" with a neater layout.





Even when the install is relatively neat, or using conduit and covers, chasing down a wire means unbundling it from a group of wires. Replacing it. Rerouting it, and then replacing all of the zip ties that you had to remove to get the old wire out. “It’s not hard, it’s just work!”, I used to say. But work takes time. Although you may have all the time in the world to build it, eventually when it breaks down, and needs to be fixed, productivity stops. Lines stop. Employees

can’t work. The boss flips out, and lots of money is lost in the process. We can simply accept that fact as an inevitability, but there is a better solution. It is modular connectivity.



In the above two examples, you can see the benefit of modular connectivity when it comes time for service. Tasks that could span days now can be resolved in minutes. Admittedly there is a bit more of an up-front cost to implement modular connectivity, but it will pay back dividends over and over as time progresses. Even the initial build is made easier. So much so that initial issues and failures on commissioning will be noticeably reduced. Repetition and replication are also much easier. Lifetime savings are virtually guaranteed. Faster to market! Faster to troubleshoot and service! An investment well worth making! *...and no snide comments about spaghetti!* 😊

We are proud to distribute solutions to simplify and streamline projects for industrial automation by several of our solutions partners. Let us know how New England Drives & Controls can help.

-Peter Lavoie (Engineering Manager)



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