

Case Studies: Structured Network Cabling



Building Relationships One Project at a Time.

We bring experience and professionalism to low voltage electronic systems & service.

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Distribution Company

As a billion-dollar, privately held company that distributes inventory for catalogs, this client needed a data and voice system that could keep up. When the client was preparing to build a 750,000-square-foot warehouse in addition to its existing structures, the distribution company looked to Advent Systems. The client specifically wanted to tie in the new voice and data system back into its main building.

As the concrete floor of the new warehouse was being poured, our team pulled the necessary cable piece by piece. Requiring extensive construction coordination between all of the different trades on the job site over six months, we pulled more than 100,000 feet of fiber and copper cabling throughout the space, which was almost three football fields long. In the end, the client had an operational single-mode fiber-optic cabling backbone system that connected directly back into the existing information structure.

Advent's flawless data and voice design allowed the client to turn on the new system without a single hiccup. As the distribution company has continued to expand its operations over the past four years, the client has relied solely on us to make sure their systems are perfect.



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Jewelry Company

Offering costume jewelry to the stars has made this wildly popular company experience growth in sales by leaps and bounds. The client had a small distribution center but realized it needed a state-of-the-art packing line to keep up with demand. Choosing technology that was being applied for the first time in the region, the client had no room for error and turned to Advent Systems to manage the massive networking project.

Because the team was working with new technology, we projected worst-case scenarios to manage any potential complications brought on by the high-tech packing line equipment. We also engineered a plan that incorporated CAT 6 and fiber cabling to numerous intermediate distribution frame (IDF) cabinets that would allow the client to expand its systems down the road. Managing constant design specification changes during installation and the first few weeks of operations, our team created a system that performed from the get go.

Within six months of launching the new system, the in-demand jewelry company was beyond its assembly line capacity, running all three shifts each day. Our planning allowed the client to nearly double the size of its order-fulfillment capacity over the next six months. The client, impressed by our preparation, project management and performance, still utilizes our network cabling team as its operations continue to grow.



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Manufacturing Company

As one of the world's leading consumer packaging manufacturers, this client was facing communication difficulties and expenditures within its 19 plants as well as between the plants themselves. Dealing with an extremely noisy environment ranging from 30 to 110 decibels, the noise level of a typical rock concert, paging someone over the ear protection worn on the plant floor was not only challenging but also a safety issue. In addition, the company was paying large long-distance phone bills between plants.

Navigating around and over massive machinery in a 300-000-square-foot facility, we first implemented our extensively engineered design, producing a CAT 6 structured cabling network with a paging system that tied in to a voice-over-Internet-protocol (VoIP) system. Using strategically placed speakers, the front office now can clearly page someone or alert the whole floor of any operational danger. In addition, with VoIP-enabled phones, management can carry the phones throughout the facility and communicate with other plants without paying the long-distance fees, saving the company serious money.

To date, we have successfully launched five of the client's 19 plants and continue to implement each building with our consistent design to bring all of the facilities up to the same level nationwide. Once completed, the client will be able to use the paging system to address all of the plants at once, allowing management to speak directly to their employees worldwide.



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Management Consulting Firm

With offices in more than 30 countries, this leading management consulting firm was struggling with inconsistent networks and service support throughout its operations. Every office was wired inconsistently, with some having two data networks or two voice networks that people couldn't administer easily. The client turned to Advent Systems to streamline the network and make it manageable for its United States and South American offices.

To meet their needs, we developed a system that could be reproduced in each office and would allow employees on site to easily add in voice or data lines themselves, eliminating the need for an on site technician. When the project was complete, the client received all of the drawings, documentation and test results to ensure all of the sites could build networks that looked and interacted exactly the same way.

Because the new systems were such a success, this customer is still a client after more than 10 years. In fact, the management firm has become one of our biggest clients, asking us to be responsible for all of their global voice/data cabling, access control and audiovisual needs.



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