

We build, connect, power  
and protect the world.

## Extended Distance Use Case: **ActiFi Hybrid Cable**

Utility Grade Infrastructure (UTG) provides quick connectivity and a future-ready infrastructure for remote locations.

### **Security extended-distance challenges are a thing of the past**

When a major hospital complex needed an extended-distance solution for the safety of patients and workers in their parking facilities, they turned to a Corning UTG extended edge network to get the job done.

Healthcare institutions are at the top of the list for essential businesses, and the requirement for security in a hospital setting is crucial. For a major hospital group in Texas, the need was for surveillance cameras and emergency call systems in three separate 330,000-square-foot parking facilities serving multiple hospital buildings. This meant extending connectivity far beyond the 300-foot distance limitation of traditional networks. At the same time, there was no available power in this extended edge environment. Because safety and security were an immediate priority, a rapid installation solution was needed to solve this customer's challenges.

A Corning ActiFi Hybrid Cable Infrastructure was implemented to address both current needs and future scalability. This solution delivered high-bandwidth connectivity and power to the far reaches of the facilities while tying in essential applications to the network. Once the project was initiated, Wi-Fi and an emergency call system were added. Because fiber and power were already installed and available at the edge of the network, it was simple to implement additional applications and devices.

**Extended reach beyond 2,000 feet with  
Corning while defining guaranteed results.**

## Utility Grade Infrastructure

### Summary

#### Customer

- Major hospital complex

#### Challenges

- Multiple large remote locations
- No current network connectivity
- No local power available
- Need for future scalability
- Traditional 100m network limitations

#### Solutions

- Corning ActiFi Hybrid Cable
- Corning Power Supply Units
- Corning Touchless Solutions

#### Results

- Delivery of bandwidth and power throughout parking facilities
- Wi-Fi and emergency systems in place
- Streamlined multiple applications on one network
- A future-ready solution capable of additional applications



**Ingenuity delivered.**

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**Extended Distance Use Case:  
ActiFi Hybrid Cable**



**Leveraging the potential of Corning and  
Utility Grade Infrastructure**

As a UTG recommended fiber solution, Corning's ActiFi Hybrid Cable provides a common infrastructure platform optimized for operational technology and high-performance applications. For this hospital's remote application needs, an optical fiber infrastructure was used to extend the distances of devices on the network beyond the standard distances of traditional cabling solutions. This Corning UTG extended edge network solution also provided a 50% material savings to the customer. Additionally, because single-mode fiber was installed, the traditional rip and replace cycle of network infrastructure at the time of upgrade will be eliminated as the fiber will outlast multiple system refreshes.

**The Utility Grade Solution**

Wesco's Infrastructure Solutions Lab<sup>SM</sup> and UTG Partner, Corning, have developed proof of concept testing for converged system interoperability. This includes UTG-recommended optical fiber to deliver connectivity, power and future scalability while reducing cost. For a full set of UTG-recommended optical fiber solutions, reach out to your local Wesco representative.

**Proof of Performance**

- 500% longer reach over standard copper solutions
- Provides data and power connectivity to distances greater than 2,000 ft.
- Supports PoE, PoE+ and PoE++
- No local power required at the edge
- Power distribution allows for centralized power backup
- Guaranteed performance and interoperability
- Maximize your Return on Infrastructure Investment (ROI)

**Extended Edge Convergence Zone**

Security cameras, emergency call and Wi-Fi



Wesco has the expertise and insights to tackle complex projects for every smart environment. Utility Grade Infrastructure is our innovative solution to support smart building and IoT implementations that span every corner of the commercial building, parking facility and perimeter. Learn how we can power your results, [Wesco.com](https://www.wesco.com).



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