



CORNING

Long-Reach FAQ Sheet

1. What are Corning Optical Communications' Long-Reach solutions?

- Corning's Long-Reach solutions offer power and fiber in hard-to-reach locations and powering remote connected devices like security cameras, motion detection lights, and other devices that need connectivity at the edge of a network.

2. What are the benefits of Long-Reach solutions?

- Extended reach, higher data capacity, and enhanced performance.
- They can deliver high-speed data transmission over 2,000 ft., making them suitable for applications in remote or hard-to-reach locations.

3. How does Long-Reach differ from traditional networking solutions?

- Traditional Category cable networks require a switch to provide PoE within 100 meters. Alternatively, standard Multimode or Singlemode fibers allow for data to travel longer distances but can't transmit power, so local AC power is required at the edge location. Corning's Long-Reach solutions incorporate a Class 2 DC power supply and hybrid fiber (SM OS2 and Copper conductors within a single cable jacket) to deliver both power and data over extended distances.

4. In what scenarios is Long-Reach technology beneficial?

- Remote locations that need powered devices like university campuses, hospital grounds, parking garages, etc. This is especially helpful when there is no power source available for that device.

5. What types of products are available under the Long-Reach category?

- ActiFi® Hybrid Cable
- Corning Intelligent Power (CIP)
- 10G Media Converter
- And YOUR PoE Device

6. How can Long-Reach solutions improve my network's performance?

- With our package of products for this solutions, your network will experience improved network performance, reduced latency, and enhanced reliability.

7. Can Long-Reach solutions be integrated into existing networks?

- YES! No need to completely revamp your system, additions can be made to your current system and also no need to place additional outlets or power sources to get power to your devices. Our Power Supplies and ActiFi hybrid cable can couple with our Fiber Media Converters or SDANs to provide an end-to-end solution. Alternatively, some WAP and Camera manufacturers have devices with SFP and DC input's onboard. This allows for our Power supply and ActiFi to connect directly into the provided device.

8. How do Long-Reach solutions contribute to future-proofing my network?

- Our ActiFi hybrid fiber is the secret sauce of the solution. Using SM OS2 in the cable allows for essentially unlimited bandwidth traveling at the speed of light for distances close to 30Km. The bigger limitation is the copper conductors however we can customize the size and count to allow for future expansion and higher power requirements at a later date.

9. What kind of technical support and assistance does Corning provide for Long-Reach deployments?

- Corning is the only company that provides technical support from our specialized field engineers from 8 a.m. to 6 p.m. EST, Monday through Friday. Your questions and troubleshooting answers will be handled as well as any other questions you may have on Corning products or solutions.

10. How can I request a consultation or get more information about Long-Reach solutions?

- Contact us today via the [form here](#).

11. Are there any success stories or case studies related to Long-Reach deployments?

- In the state of Texas, a prominent hospital facility encountered a significant challenge in the context of large parking structures exceeding 300 feet in length. Conventional wisdom dictates that Category (CAT) cable can typically transmit signals up to a maximum of 300 feet. To address this issue, our team implemented an innovative long-range solution, ensuring the seamless operation of emergency blue phones, Wi-Fi access points, and security cameras, all located at distances exceeding 300 feet and connected to a central telecom room positioned over 1,500 feet away. This case study serves as a prime example of the successful application of our Long-Reach solution, underscoring its effectiveness and reliability.