

# Wavelength



## Fast, Flexible Dark Fiber Alternative

Maximizing uptime while minimizing costs is a must for all businesses today. That is why more businesses are turning to high transport solutions that enable their operations to thrive in the digital age. Transporting today's big data and content requires continuous business application functionality with zero downtime. With FirstLight's Wavelength service, businesses can transmit data at high speeds of up to 400 gigabits per second. FirstLight's Wavelength service is delivered over its own fiber optic network, which spans over 25,000 miles connecting in excess of 13,000 lit buildings.

With FirstLight's Wavelength service, you enjoy the benefits of a dark fiber network, including dedicated, high capacity bandwidth while avoiding the challenges and costs associated with deploying and operating a dark fiber network.

Whether you need to connect to one location for offsite data replication or need to connect multiple locations, FirstLight Wavelength service is the flexible, reliable solution needed to help your business thrive.

## Resilient and Secure

FirstLight's Wavelength service is delivered over our fiber optic network, which we own and manage to ensure high uptime and performance. An ideal solution for linking bandwidth-intensive sites, FirstLight's Wavelength service not only supports today's voice, data and video applications, but is flexible enough to accommodate future applications as your business needs evolve.

The service can be purchased as either unprotected or in a diverse configuration and is designed to support your high bandwidth, mission-critical applications.

## Benefits

- **High Capacity:** With options ranging up to 400 Gbps you have the bandwidth your organization needs to support your critical business applications
- **Secure:** The connections are dedicated to your organization's use. Your data does not traverse the public Internet
- **Flexible:** Open interface that supports most major transport protocols
- **Performance:** Enhance your network's performance with high capacity, dedicated bandwidth, backed by strong Service Level Agreements (SLAs) for performance, availability and restoration timeframes
- **Reliable:** Service is backed by 24x7 network monitoring from our Network Operations Center
- **Customized Routing and Diversity:** Varying routes across FirstLight's fiber optic network offer options for optimal resiliency

## Features

- Up to 400G dedicated bandwidth
- 10G LAN PHY, 10G WAN PHY, and OTU-2 options available
- Allows specification of protocols
- Flexible network topologies – single or multiple waves
- Low-latency routes available
- Full SLA guarantees

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## Technical Specifications

Specification	Description
<b>Bandwidth</b>	Up to 400 Gbps
<b>Protocol Independent</b>	Supports most major transport protocols
<b>Configurations</b>	Single, unprotected waves or, for increased resilience, diversely routed waves
<b>Availability</b>	Available at most on-net locations throughout the FirstLight network

Attribute	Single Path	Diversely Routed Waves
<b>Availability</b>	99.5%	99.99%
<b>Bit Error Rate</b>	1x10 <sup>-9</sup>	1x10 <sup>-9</sup>
<b>Error Free Seconds</b>	99.9%	99.9%
<b>Mean time to repair</b>	8 hours	4 hours

## Applications Supported

FirstLight Wavelength service can accommodate a wide range of business applications including:

- Voice, data and video
- Internet access
- Offsite data replication
- Data and call center connectivity
- Cloud computing
- Distributed networking
- Distance learning
- Telemedicine and medical imaging