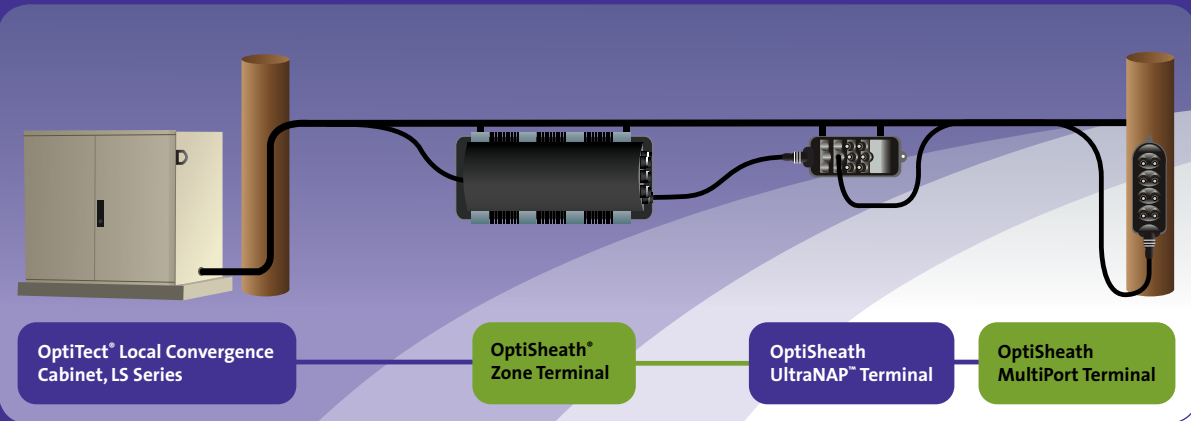


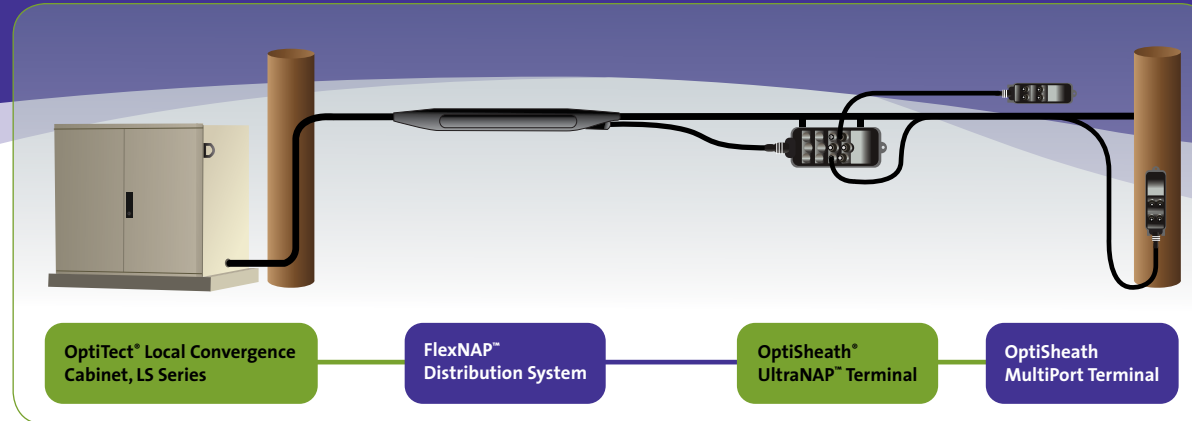


## Branch

Useful in **higher density** builds, especially when homes are arranged in **grid-like** patterns, the **modularity** of the Branch solution enables the network designer to respond to a variety of neighborhood layouts.

**Off-the-shelf**, inventoried products can be arranged in many different ways to create **custom network designs** and offer significant design flexibility.

Distribution cables move from the OptiText Local Convergence Cabinet, LS Series to the OptiSheath Zone Terminal. From here, up to eight 12-fiber branches extend to a series of terminals which further branch out to individual customers. Each 12-fiber branch feeds an OptiSheath UltraNAP Terminal which combines six single-fiber connector ports, for six individual connections, and one multi-fiber connector port. The multi-fiber connector port branches to a 6-port OptiSheath MultiPort Terminal which connects six customers.

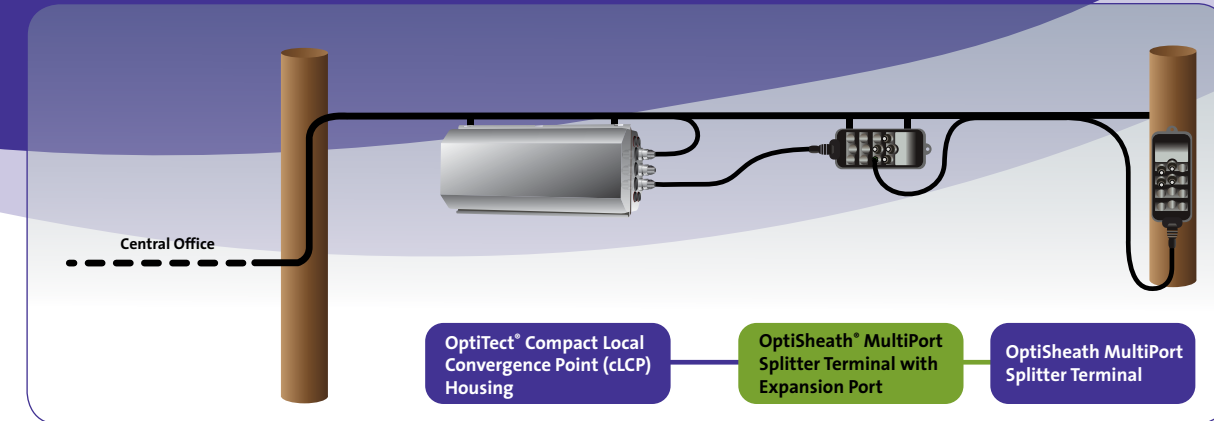


## Traditional

Traditional FTTH builds use the simple design of a distribution cable with terminals at network access points. Best for **medium density** scenarios or areas where customers are more **randomly distributed**, the Traditional design is usually **more linear** in nature but does allow for branching as needed.

While this method requires more **up-front engineering** time, its ease of installation allows for **very fast deployments**. The simplicity of adding terminals makes it an ideal way to **defer installation costs** and better match revenue streams.

Distribution cables leave an OptiText Local Convergence Cabinet, LS Series to feed the FlexNAP Distribution System. Twelve fiber tethers, set at predetermined intervals, connect to a series of terminals which service individual customers. The OptiSheath UltraNAP Terminal has a combination of single-fiber connector ports feeding four individual subscribers and two multi-fiber connector ports. The multi-fiber connector ports branch to two 4-port OptiSheath MultiPort Terminals which connect an additional four customers each.

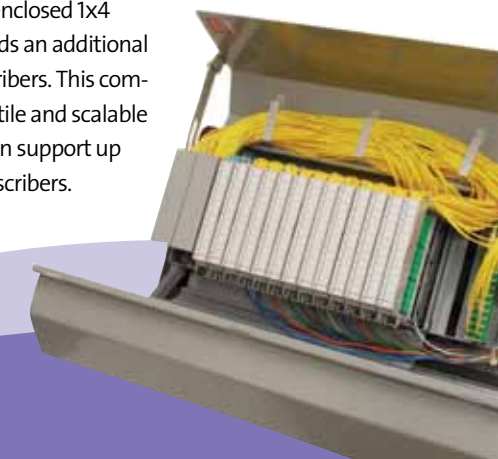


## Distributed Split

The Distributed Split solution works well for rural areas or when **low subscription rates** are expected. A second layer of **splitting at the network access point** enables **low-fiber-count distribution cables** and **minimizes initial costs**.

The ease of adding terminals in the future allows installers to reduce up-front installation expenses and **defer connection cost** until subscriptions are received, **eliminating stranded assets**. This **scalability** makes this solution a good choice for **low-to medium-density** areas.

Optical splitting and fiber management occurs at the OptiText Compact Local Convergence Point (cLCP) Housing rather than a conventional cabinet. Internal splicing and connectivity is scalable in increments of 12 fibers to allow for future growth. The 2-fiber OptiSheath MultiPort Splitter Terminal with expansion port contains a 1x4 splitter which creates four customer drop ports as well as a single-fiber expansion port which feeds into a second splitter terminal. Again, an enclosed 1x4 splitter feeds an additional four subscribers. This compact, versatile and scalable solution can support up to 384 subscribers.



It all  
**STARTS**  
Here ...

at the central office. Corning Cable Systems offers a variety of solutions with two of the most versatile shown here: the Eclipse® Hardware Family and the Enhanced Management Frame (EMF). Both enable quick and easy incremental growth.



#### Eclipse Hardware Family:

- 1440-fiber capacity
- Compact size for small spaces
- Offers 864-fiber FTTH solution on one rack



#### Enhanced Management Frame (EMF):

- 1728-fiber capacity
- Compact fiber management for high-density
- 72-fiber modular units enable scalable growth



Feeder cables from the central office split at the local convergence point and distribute out to network access points. Larger deployments, up to 864 fibers, are served by the intuitive fiber management of the OptiText® Cabinet, LS Series while the more compact and versatile OptiText Compact Local Convergence Point (cLCP) Housing supports incremental growth. When used in a Distributed Split solution, the cLCP supports as many as 384 connections.

From here, distribution cables make their way to subscriber premises in one of three solutions.

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## Corning Cable Systems intuitive approach to network design is enabled by innovation:

The **factory-installed**, environmentally **robust**, single-fiber OptiTap® Connector has become the industry standard in preconnectorized applications and the multi-fiber OptiTip® Connector has advanced that same technology further.

Combining these two **field-proven** and **factory-tested** technologies into one device makes for a **highly versatile** terminal that fully leverages connectorized solutions. In addition to the efficiencies gained by combining **single-fiber** and **multi-fiber** connections, the **modularity** of their common footprint and design **simplify** the installation and training process for the field.

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