

CORNING

Know Your FlexNAP™ System

Do you know the benefits of the Corning FlexNAP™ system? Our FlexNAP system provides the most cost-effective method of deploying optical fiber in distribution networks at speeds significantly faster than traditional field installations. The increased speed of network deployment, along with the reliability of factory testing, offers significant value to you.

Up to 5x Faster

plus 5x reduction in civil traffic/customer disruptions, when compared to traditional field installations.

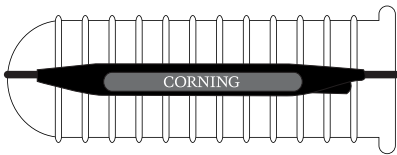


Reduced Supply Chain/Installation Complexity

Fewer components to manage in the field.



Slimline Overmolds



Reduces product space requirements.

Increased Labor Efficiency

Faster subscriber turn-up using same crew.



Full Preconnectorized



Full Splice



Concentrated Fiber Splice Locations

80% fewer field splice locations and up to 70% fewer splices total, when compared to traditional field deployments.



Widespread Adoption

of homes using OptiTip® technology solutions.

>32M
Homes Passed

2.3M
OptiTip Tethers



Proven Reliability

with 99% of the buried network remaining operational during Hurricane Harvey (2017).



Factory Quality

100%

factory-tested components.



Simple Repairs

Cable repair with standard procedures and practices.

Cable cuts managed similarly to bulk cable deployments.



Plan your deployment

Let's get ready to start your FlexNAP™ design.

1 Pick your cable type

(Aerial is typically a 5 ft tether; Buried is typically a 15 ft tether)

- **Aerial**
RPX® or loose tube
- **Buried**
Toneable RPX or armored loose tube
- **Duct**
Toneable RPX or loose tube

2 Pick your tether locations

- **How many homes do you want to serve per location?**
2, 4, 6, 8, or 12 homes per tether loose tube
4, 8, or 12 homes per tether RPX
- **Do you need one tether or more per location?**
Once you know your tethers, you can move to your terminal selection

3 Make your terminal selection

- **Aerial**
Evolv™ terminal or MDU terminal products
- **Buried or duct**
Evolv terminal or MDU

4 Drop Style Selection

Is your drop terminating inside or outside the house?

- **Outside ONT**
ROC™ drop with home side typically SC APC or pigtail (assume connectorization or splice in field)
- **Inside ONT**
ROC drop to transition housing or indoor/outdoor
ROC drop to indoor ONT

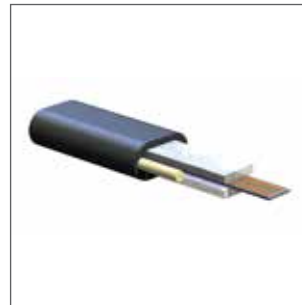
5 Next Steps

Give us a call for product pricing, design support, or cable configuration. Contact 828-901-5000 today!

Standard FlexNAP for centralized split architectures

1

Distribution Cable



RPX® Cable

2

Tap Point/Tether



Tap



Loose Tube Cable



Tether

Connect your subscribers

You have subscribers. Now what?

1 Install Cable



2 Install Terminals



3 Install Drops



3

Terminal



Evolv Terminal

4

Drop Cable



ROC™ Drop Cable



MDU



ROC Drop Pigtail

Plan your deployment

Let's get ready to start your FlexNAP™ design.

1 Pick your cable type

(Aerial is typically a 5 ft tether; Buried is typically a 15 ft tether)

- **Aerial**
SST-Drop™ or loose tube
- **Buried**
Toneable SST-Drop or armored loose tube
- **Duct**
Toneable SST-Drop or loose tube

2 Pick your tether locations

- **How many homes do you want to serve per location?**
1, 2, or 4 fibers per tether
- **Do you need one tether or more per location?**
Once you know your tethers, you can move to your terminal selection

3 Make your terminal selection

- **Aerial**
Evolv™ splitter terminal or MDU terminal products
- **Buried or duct**
Evolv splitter terminal, or LPT terminal with splitter

4 Drop Style Selection

Is your drop terminating inside or outside the house?

- **Outside ONT**
ROC™ drop with home side typically SC APC or pigtail (assume connectorization or splice in field)
- **Inside ONT**
ROC drop to transition housing or indoor/outdoor ROC drop to indoor ONT

5 Next Steps

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Single-Fiber FlexNAP for distributed split architectures

1

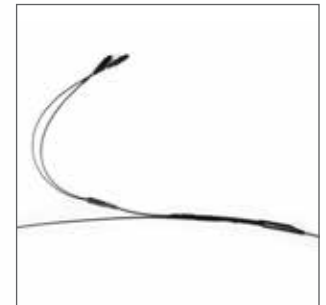
Distribution Cable



SST Cable

2

Tap Point/Tether



Tap



Loose Tube Cable



Tether

Connect your subscribers

You have subscribers. Now what?

1 Install Cable



2 Install Terminals



3 Install Drops



3

Terminal



Evolv Splitter Terminal

4

Drop Cable



ROC™ Drop Cable



LPT Terminal with Splitter



ROC Drop Pigtail

Aerial Pole or Buried



Evolv™ Terminal



Evolv Splitter Terminal

Architecture	Centralized	Distributed
Drop Capacity	2, 4, 6, 8, 12 ports	4, 8 ports
Connector Type	OptiTip® multifiber hardened connector	OptiTap single-fiber hardened connector (female)
FlexNAP™ System Compatibility	FlexNAP Standard System	FlexNAP Single-Fiber System
Quick Facts	The standard multiport terminated with an OptiTip stub is our most popular terminal choice in the OSP for centralized split architectures. Its fully sealed terminal body is suitable for all environments (rated IP-68). Available in three body sizes to accommodate 2/4, 6/8 or 12-fiber options.	The multiport stubless splitter terminal offers split ratios of 1x4 or 1x8 in the same trusted, sealed terminal. A blue connector cap identifies the input port for fast terminal connection to OptiTap enabled tethers.

Façade/Pole



MDU Terminal

Low-Profile Terminal (LPT)

Low-Profile Terminal with Splitters (LPT)

Centralized, home run

Centralized, home run

Distributed

6, 12, 24, 36, 48 fibers

4, 6, 8, 12 fibers

4, 8 fibers

OptiTip® multifiber hardened connector

OptiTip multifiber hardened connector

Single-fiber hardened connector

FlexNAP Standard System

FlexNAP Standard System

FlexNAP Single-Fiber System

The MDU terminal equipped with OptiTip stubs support medium-density multitenant business parks or multidwelling unit buildings. With 24-, 36-, or 48-fiber capacity, these façade-mount terminals are ideal for including in standard SFU deployments in mixed-use neighborhoods and towns. The MDU has an additional slack-management housing and skirt to conceal excess drop cable length.

The standard low-profile terminal equipped with a single OptiTip stub supports small multitenant business parks or multidwelling unit buildings up to 12 units. The LPT offers an additional slack management housing and skirt to conceal excess drop cable length.

The low-profile terminal with splitter allows for a single 1x4 or 1x8 splitter or two 1x4 splitters to service small buildings up to eight units. The terminal utilizes OptiTap input ports that connect to single-fiber FlexNAP tethers directly on poles or via a tether extender for façade mounting.

“Without a doubt, one of the key things that made this project successful from the start was more than just Corning’s industry-leading products; it was their engineering expertise that helped me figure out how to be successful from planning to implementation and now to growth.”

—Mike Bosch, CEO of RG Fiber

“From a project management point of view, working with Centrix™ and FlexNAP™ systems is a dream for scheduling and coordination. We are no longer dependent on splicing contractors once the fiber goes up.”

—Brenden Griswold, Operations Coordinator, OTTC

“Since the subscriber connection is such a simple process, I can easily employ local talent to build out the final piece of the network. I don’t need to find someone outside the community with years of fusion splicing experience to guarantee fast installation and the highest transmission speeds for my customers.”

—Greg Dynek, CEO of Bluestem Fiber

We are here. We understand. We can help.

Ready to configure? Whether you are maintaining your infrastructure to stay ahead of bandwidth demand or building your network from the ground up, you have scores of decisions to make – and every one of them can impact your bottom line. Before exploring specific connectivity products, connect with us for value that extends well beyond our portfolio.

We’d be happy to discuss the details of your broadband vision and can provide you with a cost analysis that compares the speed and cost of deployment for a full-splice, semi-precon, and full-precon deployment in your community.

Learn more at www.corning.com/community-broadband/next-steps

The Corning logo is displayed in white, uppercase letters on a solid blue rectangular background.

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To learn more about the FlexNap design tool visit:

www.corning.com/flexnap

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