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.
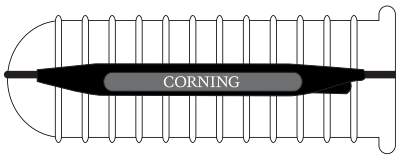
5X Faster

Reduced Supply Chain/Installation Complexity

Fewer components to manage in the field.

Slimline Overmolds

CORNING

Reduces product space requirements.

Increased Labor Efficiency

Faster subscriber turn-up using same crew.

Full Preconnectorized

Full Splice

Concentrated Fiber Splice Locations

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

Widespread Adoption

of homes using Corning's hardened preconnectorized solutions.

>52 M
Homes Passed

1.8 M
OptiTip® Tethers

Proven Reliability

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

99%

Factory Quality

100%

factory-tested components.

Simple Repairs

Cable repair with standard procedures and practices.

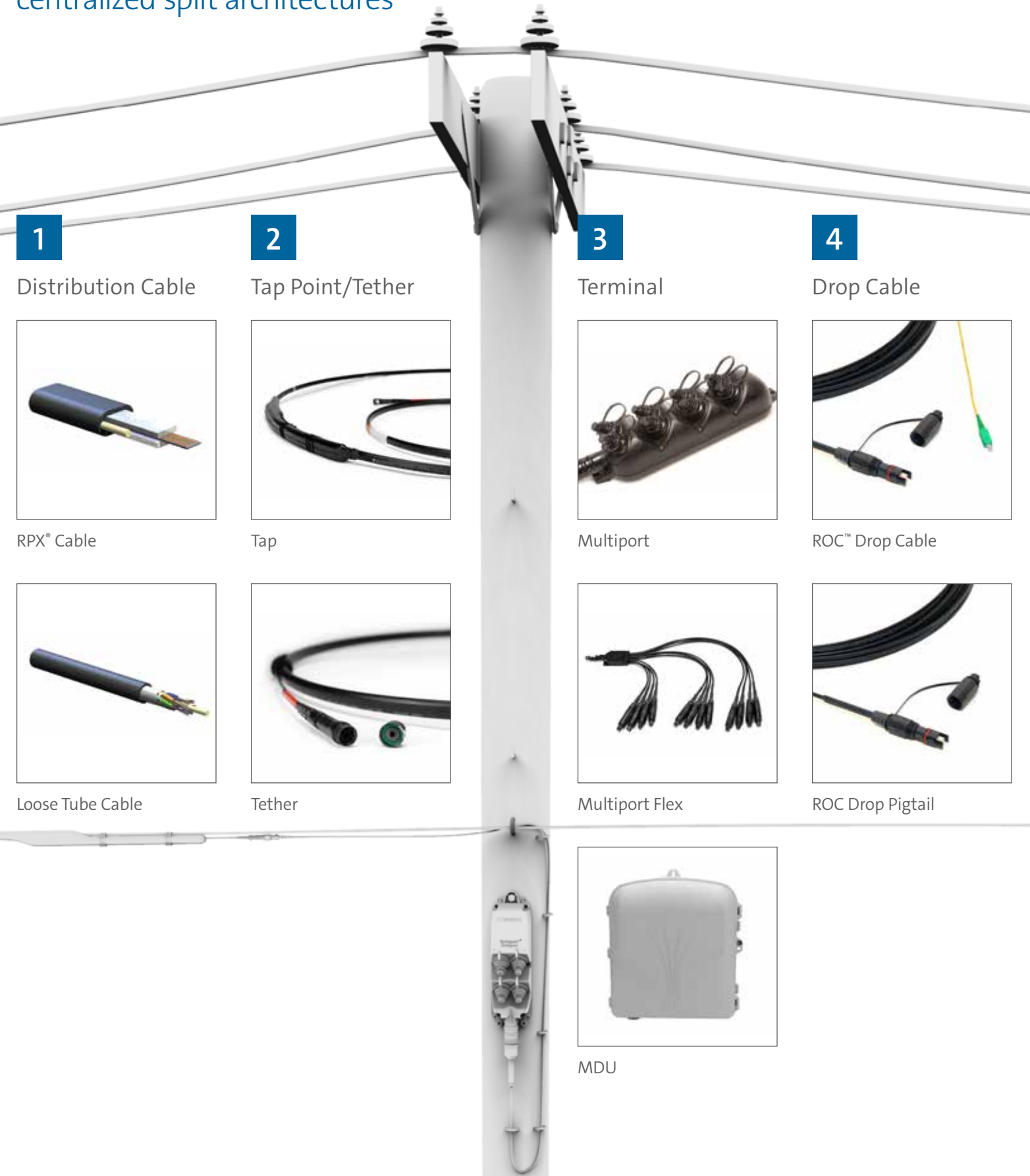Cable cuts managed similarly to bulk cable deployments.

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**
  Multiport or MDU terminal products
- **Buried or duct**
  Multiport flex, multiport, 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

Loose Tube Cable

2 Tap Point/Tether

Tap

Tether

3 Terminal

Multiport

Multiport Flex

MDU

4 Drop Cable

ROC™ Drop Cable

ROC Drop Pigtail

Connect your subscribers

You have subscribers. Now what?

1 Install Cable

2 Install Terminals

3 Install Drops

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**
  Multiport splitter or MDU terminal products
- **Buried or duct**
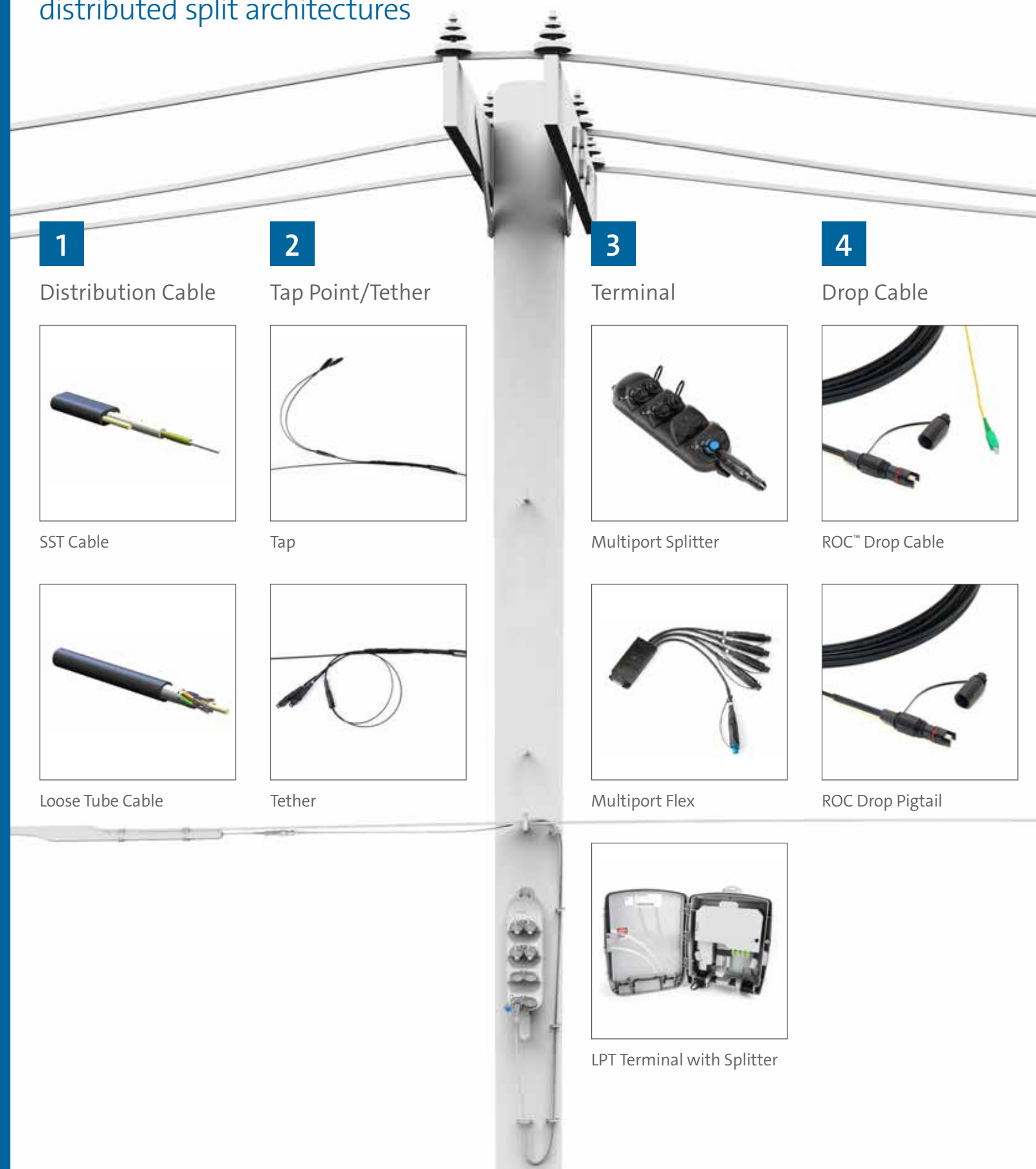 Splitter multiport flex, multiport splitter, or LPT Terminal with splitter

4 **Drop Style Selection**

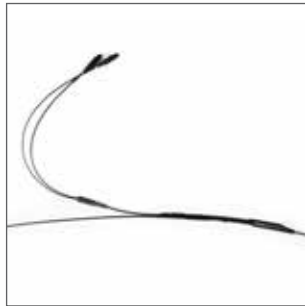Is your drop terminating inside or outside the house?
- **Outside ONT**
  ROC™ drop with home side typically SC APC or pigtail (assume connectorization or splice in field)
- **Inside ONT**
  ROC drop to transition housing or indoor/outdoor ROC drop to indoor ONT

5 **Next Steps**

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

Single-Fiber FlexNAP for distributed split architectures

1 Distribution Cable

SST Cable

Loose Tube Cable

2 Tap Point/Tether

Tap

Tether

3 Terminal

Multiport Splitter

Multiport Flex

LPT Terminal with Splitter

4 Drop Cable

ROC™ Drop Cable

ROC Drop Pigtail

Connect your subscribers

You have subscribers. Now what?

1 **Install Cable**

2 **Install Terminals**

3 **Install Drops**

	Aerial Pole or Buried					Façade/Pole		
	MultiPort (MTB)	MultiPort Flex (MPF)	MultiPort Flex Terminated (MTF)	MultiPort Splitter Stubless (MTS)	MultiPort Flex Splitter (MSF)	MDU Terminal	Low-Profile Terminal (LPT)	Low-Profile Terminal with Splitters (LPT)
Architecture	Centralized	Centralized	Centralized	Distributed	Distributed	Centralized, home run	Centralized, home run	Distributed
Drop Capacity	2, 4, 6, 8, 12 ports	4, 8, 12 ports	4, 8, 12 ports	4, 8 ports	4, 8 ports	6, 12, 24, 36, 48 fibers	4, 6, 8, 12 fibers	4, 8 fibers
Connector Type	OptiTip® multifiber hardened connector	OptiTip® multifiber hardened connector	OptiTip multifiber hardened connector	OptiTap single-fiber hardened connector (female)	OptiTap single-fiber hardened connector (female)	OptiTip® multifiber hardened connector	OptiTip multifiber hardened connector	Single-fiber hardened connector
FlexNAP™ System Compatibility	FlexNAP Standard System	FlexNAP Standard System	FlexNAP Standard System	FlexNAP Single-Fiber System	FlexNAP Single-Fiber System	FlexNAP Standard System	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 flex is composed from a small, hardened body equipped with an input OptiTip connector for direct connection to the FlexNAP tether. The same body size supports all fiber count offerings with rugged yet flexible, staggered legs terminated with OptiTap inline connectors that serve as the subscriber drop port. Ideal for placement in pedestals or handholes where space is a premium.	The stubbed multiport flex offers the input OptiTip connector on the end of a cable stub for connection farther away from the FlexNAP tether location. Helpful when needing a second terminal across a street crossing.	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.	The multiport splitter flex offers split ratios of 1x4 or 1x8 in the compact form factor. The input leg is identified with a blue connector cap and enters the furcation body from the same side as subscriber drop legs. Ideal for placement in pedestals or handholes where space is a premium.	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 **corning.com/community-broadband/next-steps**

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For FlexNAP install videos, please visit:
corning.com/flexnap-videos