FlexNAP™ Multiuse System

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Features and Benefits

Reverse-fed tether attachment points (TAPs) support up to eight OptiTip® tethers (max 96 fibers)
Enables connectivity to a preconnectorized cabinet increasing the speed of installation by eliminating splicing in the distribution portion of the network

Factory-installed, sealed splice points (available in a combination of 4-, 8-, or 12-fiber OptiTip connectors and/ or 4-fiber OptiTap tethers) at distribution TAPs
Utilizes traditional field-installation techniques and drastically reduces field splicing with a predetermined access point at each waterproof TAP

Maximum of two tethers per attachment point
Maximum fiber per TAP depends on tether combination

Available with self-supporting RPX® ribbon distribution cable
Enables quick installation process utilizing standard pole attachment hardware, eliminating the need for a strand or messenger wire

Terminal compatibility
A variety of terminal offerings are available to mate to OptiTip or OptiTap connector tethers, including traditional sealed terminals as well as MDU housings in both standard and splitter versions

Standards

Design and Test Criteria	GR-3122, GR-771, GR-3152, GR 3120

Corning's FlexNAP™ multiuse system is part of the preterminated multiuse platform, which now includes preterminated cabinets and a variety of terminals. The FlexNAP multiuse system combines the traditional benefits of FlexNAP with the added ability to configure home run, centralized, and distributed split architectures in the same fiber backbone. This feature enables optimal flexibility in supporting business, residential, and wireless services.

In addition, the FlexNAP multiuse preterminated system eliminates splices in the field, except for minimal splicing required in the feeder, providing a tip-to-tip fully pre-connectorized solution in the distribution.

The increased speed of network deployment, the reliability of factory testing, and the ability to support a variety of network services in the same optical layer offers significant value to the end user in the following key areas: deployment velocity, risk avoidance, workforce efficiency, capital avoidance, and deferment.
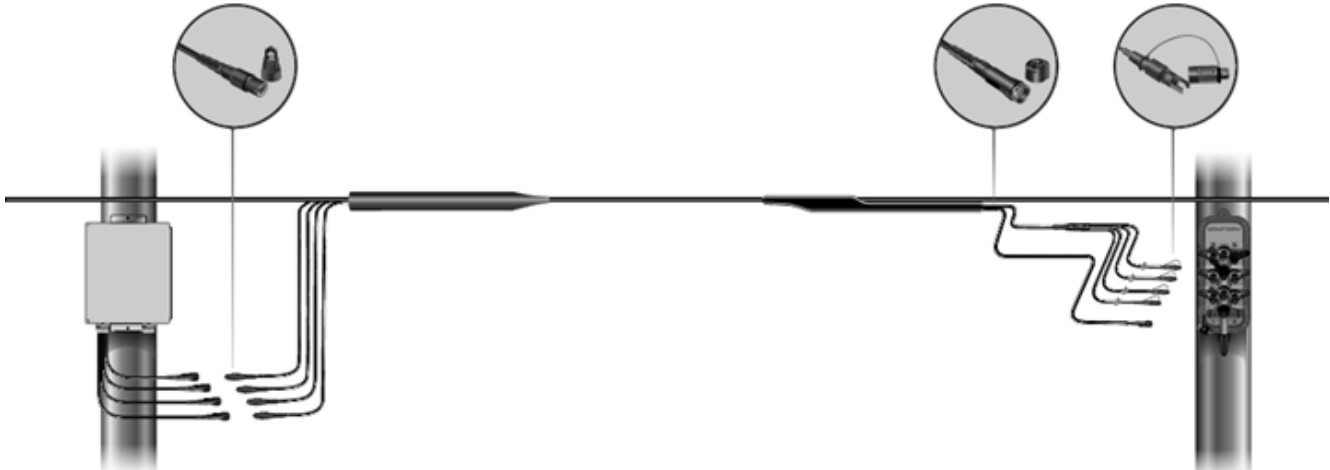

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Designing a FlexNAP™ System

A FlexNAP system cable consists of five components:

1. FlexNAP system distribution cable
2. FlexNAP system network access points (with OptiTap® and OptiTip® cable assemblies)
3. FlexNAP system cabinet connectivity (with 12-fiber OptiTip cable assemblies)
4. FlexNAP system terminal
5. OptiTap or OptiTip extended cable assembly
   - 24 to 144 fibers
   - 4-, 8-, and 12-fiber OptiTip connector-based tether attachment points (TAPs)
   - 4-fiber OptiTap connector-based TAPs
   - RPX® dielectric ribbon cable
   - TAP tether length – 5 ft for OptiTip tethers
   - TAP tether length – 10 or 16 ft for 4-fiber OptiTap tethers
   - Stubless splitter terminals or stubbed OptiTip terminals
   - OptiTip and OptiTap extender assembly length – 10 ft minimum

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Specifications

Temperature Range	
Storage	-40°C to 70°C (-40°F to 158°F)
Installation	-30°C to 70°C (-22°F to 158°F RPX® cable -18° to 70°C)
Operation	-40°C to 70°C (-40°F to 158°F)

Type	Maximum Distribution Cable Fiber Count	Minimum Duct Size (in)	Maximum Fibers per Access Point	Maximum Tether Assemblies per Access Point	Nomimal Closure Outer Diameter mm (in)	Minimum Bend Radius Loaded mm (in)	Minimum Bend Radius Installed mm (in)	Maximum Tensile Load Short-Term N (lbf)	Maximum Tensile Load Long-Term N (lbf)
FlexNAP System – RPX® Cable									
24, 48, 72, 96, 144	N/A	24	2	25.4 (1.0)	229 (9.0)	229 (9.0)	2700 (600)	890 (200)

Notes:
1) RPX FLEXNAP tether fiber counts are 4, 8, 12, and aerial only.
2) 24-fiber locations are capable with two single-tether access points – 3 ft apart.

Ordering Process

Ordering the FlexNAP system is a three-step process:

1. Design and Measure – Design the distribution cable build-plan and measure distances between poles, handholes, or pedestals to fit your specific application.
2. Create and Submit Build-Plan Online – Contact Corning at 800-743-2675 for access to the online configurator.
3. Place Order – Place order by submitting the single, unique part number generated by the online configurator.

Note:
Initial FlexNAP system quote will be generated using this specification sheet to create a component bill of material (BOM).

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