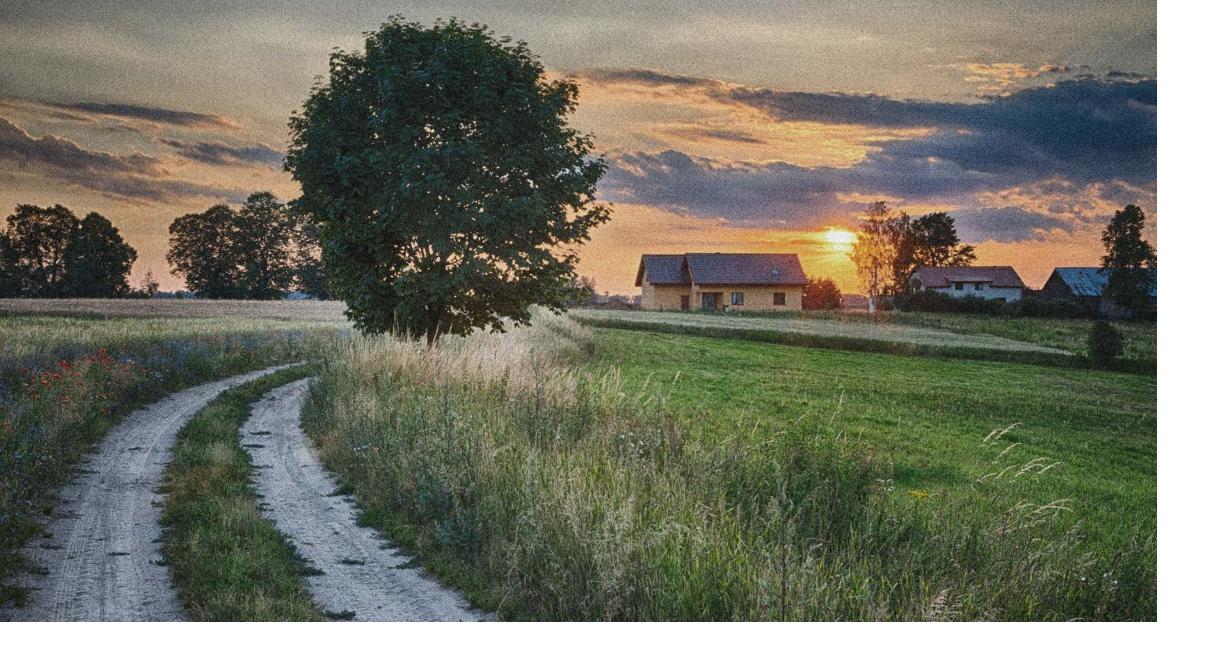




BRING BROADBAND HOME

Distributed Split
Architecture
Guide



Cost Components Comparison

Labor Effort

Level of connectorization impacts crew & size



Full Splice Spliced Terminals Full Preconnectorized

Material Cost

Level of connectorization impacts upfront cost



Full Splice

Spliced Terminals

\$ \$

Full Preconnectorized

\$ \$ \$

Total Cost

Labor effort and material cost drive total cost

Full Splice



Whether your deployment is centralized split, distributed split, or optical tap, you can count on our fiber-to-the-home expertise. Distributed split (DS) architectures are gaining popularity in the United States based on widespread success in Latin America and Europe. By distributing or cascading splits in two or more field locations, the physical volume of products in the field can shrink in size as the ports at each location are shared until the last access point is reached. We've compiled the most commonly used preconnectorized products for distributed split. This document outlines two methods of deploying the distribution portion of the network depending on the level of connectivity used.

Our broad portfolio of products addresses your specific challenges from speed of deployment, labor and cost considerations, performance requirements, future-readiness, and more.

Select your options across these areas of the network:

- (A) Central Office (CO)
- (B) Feeder Cable
- (C) Fiber Distribution Hub (FDH)
- (D & E) Distribution Segment
- (F) Customer Premises

Connectivity for the Win!

We are willing to bet on connectivity for your build. Decades of experience with connectivity have proven a wise investment for network operators around the world.

Your next deployment's fully connectorized design is on us.

Reach out to our subject matter experts to get your consultation started at connect@corning.com

Distributed Split Option 1

Spliced Terminals

The distributed split option shown on this page highlights a spliced design. Note: First layer splitters may exist in the fiber distribution hub (FDH), cabinets, or closures.

Cost Components Comparison

Labor Effort

Eliminates splice events downstream of splitter cabinet

222

Material Cost

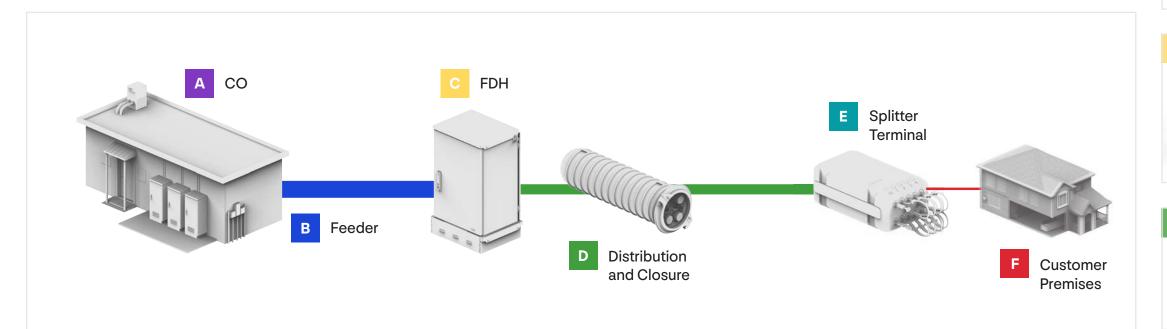
Pre-installed connectors along distribution cable increase material cost

\$ \$

Total Cost

Savings result from reduction of splice events and cable placement labor







Central Office (CO)



The Centrix™ hardware system is a pay-as-you-grow solution where you can choose to order fully loaded racks/frames on day one, or simply start with a cassette in a housing. The core of the solution is a single, modular cassette that can be tailored to include a variety of optical devices and can contain up to 36 LC connector adapters.

B Feeder Cable



Whether aerial or buried, we have the fiber count, quality, and reliability your network demands. For higher fiber counts, ribbon cable may be a good option for you! For below-grade applications, consider using an armored cable. If you are looking for a solution to place in congested ducts with microducts, MiniXtend® cable may be the right fit.

C Fiber Distribution Hub (FDH)



The Panel Access Cabinet (PAC) series provides everything necessary to manage up to 864 fibers for an outside plant FTTx application in pole- and pad-mount environments. For below-grade installations, the LCPE is designed to house five 1x32 splitters (ordered separately) with preterminated SC APC adapters.

D Distribution Cable & Splice Closures



Depending on your deployment method and architecture type, cable attributes may vary from self-support to armored or even microduct suitable cables. In the distribution, cables chosen may or may not be identical to the feeder depending on the serving area's needs.

E Splitter Terminals



Evolv® terminals are up to 4x smaller, significantly reducing new infrastructure pathway costs or enabling reuse of existing assets.

F Customer Premises



Corning's drop cable portfolio and associated assemblies allow for full plug-and-play at the subscriber premises and also support field-installable terminations.

Distributed Split Option 2

Full Preconnectorized

The distributed split option shown on this page highlights a fully preconnectorized design leveraging FlexNAP[™] single-fiber distribution cable. Note: First layer splitters may exist in the fiber distribution hub (FDH), cabinets, or closures.

Cost Components Comparison

Labor Effort

Eliminates splice events downstream of splitter cabinet

8

Material Cost

Pre-installed connectors along distribution cable increase material cost

\$ \$ \$ \$

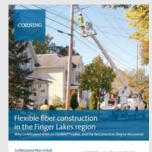
Total Cost

Savings result from reduction of splice events and cable placement labor



FlexNAP System

See How GoNetspeed Deployed This Connectivity Solution.





Central Office (CO)



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Feeder Cable



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The Panel Access Cabinet (PAC) series provides everything necessary to manage up to 864 fibers for an outside plant FTTx application in pole- and pad-mount environments. For below-grade installations, the LCPE is designed to house five 1x32 splitters (ordered separately) with preterminated SC APC adapters.

FlexNAP™ System



Customer

Premises

The FlexNAP system utilizes optical fiber cables upon which network access points are pre-installed at customerspecified locations along the length of the cable. In this design, the FlexNAP system has single-fiber Pushlok® tethers that begin an optical tap chain of terminals.

Splitter Terminals

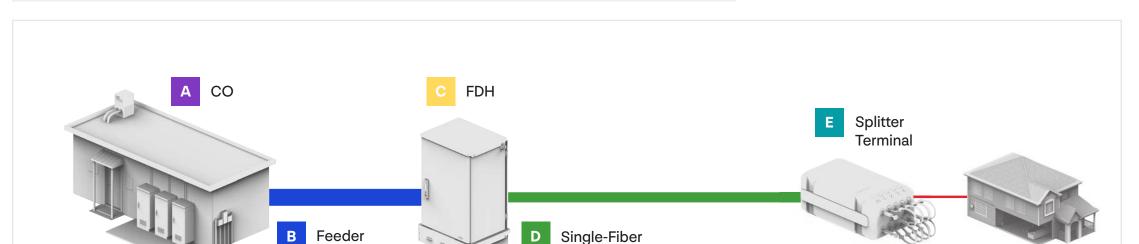


Evolv® terminals are up to 4x smaller, significantly reducing new infrastructure pathway costs or enabling reuse of existing assets.

Customer Premises



Corning's drop cable portfolio and associated assemblies allow for full plug-and-play at the subscriber premises and also support field-installable terminations.





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Bringing Broadband Home Distributed Split Quick Reference Guide | CRR-1954-AEN | Page 6

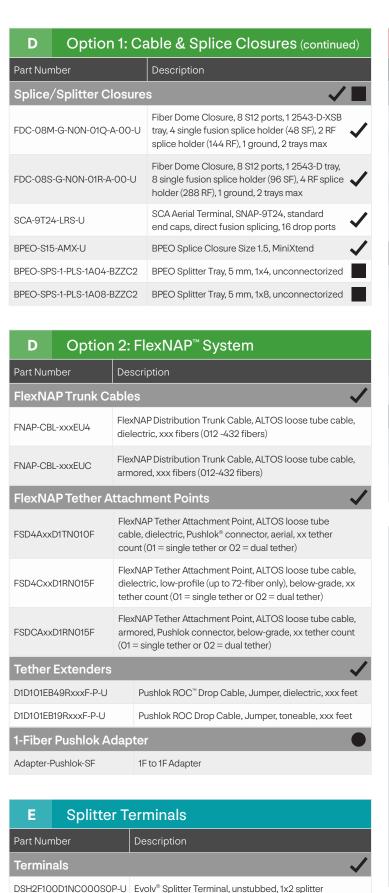
Product Ordering Information



| B Feeder Cable | | |
|--------------------|---|--|
| Part Number | Description | |
| Ribbon Cables | | |
| xxxZC5-14100D53 | SST-Ribbon™Armored Cable (144-864 fibers) | |
| xxxEC4-14100D53 | SST-Ribbon All-Dielectric, Non-Armored (012-216 fibers) | |
| xxxEV4-14100D53 | SST-UltraRibbon" All-Dielectric, Non-Armored (288-864 fibers) | |
| xxxEV4-44101D53 | RPX® All-Dielectric Self-Supporting Cable (024-144 fibers) | |
| Loose Tube Cables | | |
| xxxZU4-T4F22D20 | ALTOS® Loose Tube Cable (012-288 fibers) | |
| xxxZUC-T4F22D20 | ALTOS Lite Single-Jacket, Armored (012-288 fibers) | |
| Microduct Cables 🗸 | | |
| xxxZM4-T4F22A20 | MiniXtend® Cable (012-144 fibers) | |
| xxxZH4-Y4F40A20 | MiniXtend HD Cable (144-288 fibers) | |
| xxxZH4-S4F40A20 | MiniXtend HD Cable (288-432 fibers) | |

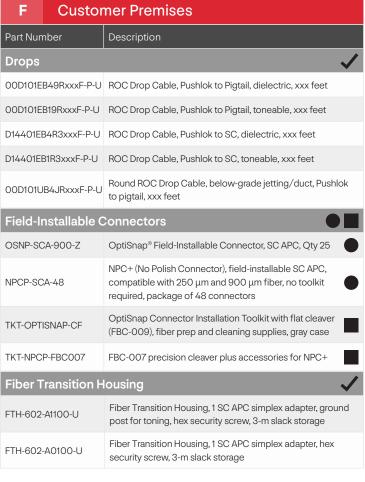
| C Fiber Distribution Hub (FDH) | | | |
|--------------------------------|--|--|--|
| Part Number | Description | | |
| Cabinets/Splice Closures | | | |
| SCPP431C41E31V4S00-U | Gen III Series Cabinet, pole mount, 288 fibers, 48-fiber feeder, ribbon cable, 100-ft stubs | | |
| SDPP131UC1C31UCS00-U | Gen III Series Cabinet, pole mount, 144 fibers, 12-fiber feeder, ALTOS® armored cable, 100-ft stubs | | |
| PAG- D3DDU4SUCL6C000LXFA-U | Panel Access Cabinet, pole mount, 432 fibers, 72-fiber feeder, 72-fiber pass through, ALTOS Lite armored cable, 31-m stubs | | |
| PAG- C3CCU4SU4P6C000LXFA-U | Panel Access Cabinet, pad mount, 288 fibers, 48-fiber feeder, 48-fiber pass through, ALTOS dielectric cable, 31-m stubs | | |
| EDBS00BBSC00BBS00P-U | Local Convergence Point Enclosure, 144 fibers, loose tube feeder cable, splice capable | | |
| UMR1CC6CZ6C21132 | RMS Splitter, 1x32 | | |
| WMR4CC6CA6C12014 | LS Series Splitter Module, Dual 1x4 | | |
| WMR4CC6CA6C12018 | LS Series Splitter Module, Dual 1x8 | | |
| XSB1DDA91A912014 | LCPE Splitter Module, Dual 1x4 | | |
| XSB1DDA91A911018 | LCPE Splitter Module, 1x8 | | |

| D Option 1: Cable & Splice Closures | | |
|-------------------------------------|---|--|
| Part Number | Description | |
| Ribbon Cables 🗸 | | |
| xxxZC5-14100D53 | SST-Ribbon™ Armored (144-864 fibers) | |
| xxxEC4-14100D53 | SST-Ribbon Dielectric, Non-Armored (012-216 fibers) | |
| xxxEV4-14100D53 | SST-UltraRibbon™ Dielectric, Non-Armored (288-864 fibers) | |
| Loose Tube Cables | | |
| xxxZU4-T4F22D20 | ALTOS Loose Tube Cable (012-288 fibers) | |
| xxxZUC-T4F22D20 | ALTOS Lite Armored Loose Tube Cable (012-288 fibers) | |
| Microduct Cables | | |
| xxxZM4-T4F22A20 | MiniXtend Cable (012-144 fibers) | |
| xxxZH4-Y4F40A20 | MiniXtend HD Cable (144-288 fibers) | |
| xxxZH4-S4F40A20 | MiniXtend HD Cable (288-432 fibers) | |



DSH4F100D1NC000S0P-U Evolv Splitter Terminal, unstubbed, 1x4 splitter DSF8F100D1NC000S0P-U Evolv Splitter Terminal, unstubbed, 1x8 splitter

Corning Optical Communications



Build America, Buy America Act (BABAA) Compliance

- ✓ Produced in the United States: Meets requirements of the Build America, Buy America Act (BABAA), and 2 C.F.R. 184. All fiber, cable, and preform manufacturing occurs in the United States. For each manufactured product, at least 55% of the content is produced in the United States
- Waived: Meets requirements of NTIA's Limited General Applicability, Nonavailability Waiver of the Buy America Domestic Content Procurement Preference as Applied to the BEAD Program.
- **Suggested de Minimis:** Minor hardware that Corning believes will not exceed the thresholds under the de minimis waiver. De minimis products may cumulatively comprise up to the lesser of 5% of the total applicable project costs, or \$1,000,000.



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