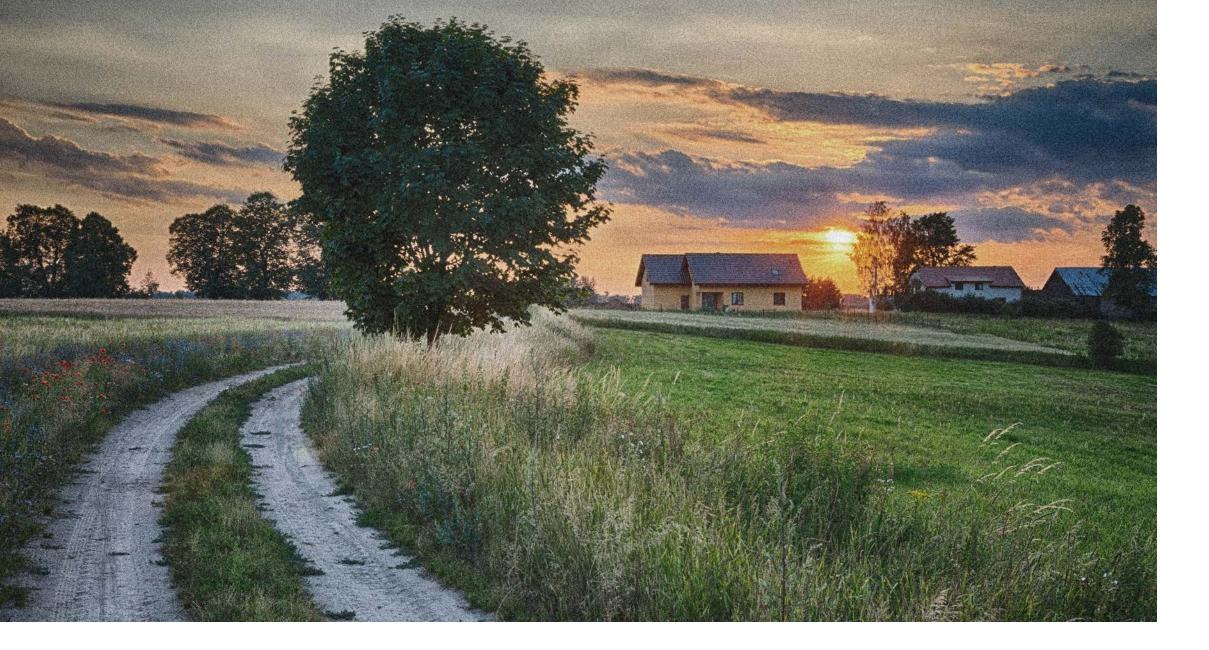


BRING BROADBAND HOME

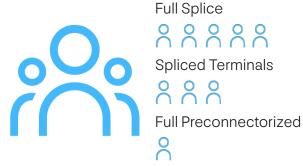
Centralized Split
Architecture
Guide



Cost Components Comparison

Labor Effort

Level of connectorization impacts crew & size



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

Spliced Terminals

Full Preconnectorized

Whether your deployment is centralized split, distributed split, or optical tap, you can count on our fiber-to-the-home expertise. The most common architecture deployed in the United States and Canada is a centralized split (CS) network. A CS network is characterized by a single split location between electronics in the outside plant, often with several splitters housed in a centralized location. We've compiled the most commonly used preconnectorized products for centralized 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 address 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

Centralized Split Option 1

Spliced Terminals

The first CS option shown on this page highlights a spliced terminal design. Note: First layer splitters often exist in cabinets but, in smaller serving areas, may be housed in splice closures or colocated with remote OLTs.

Cost Components Comparison

Labor Effort

High number of splice events requiring specialized labor

200

Material Cost

Moderate increase in terminal cost vs. full splice solutions

\$ \$

Total Cost

Savings result from connectorized terminal ports and deferred drops



See How Tri-Co Deployed This Connectivity Solution.





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.

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.

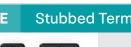


The Panel Access Cabinet (PAC) series provides everything necessary to manage up to 864 fibers for an outside plant FTTx application in pole- and pad-mount environments. For below-grade installations, the LCPE is designed to house five 1x32 splitters (ordered separately) with preterminated SC APC adapters.

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.

Stubbed Terminals

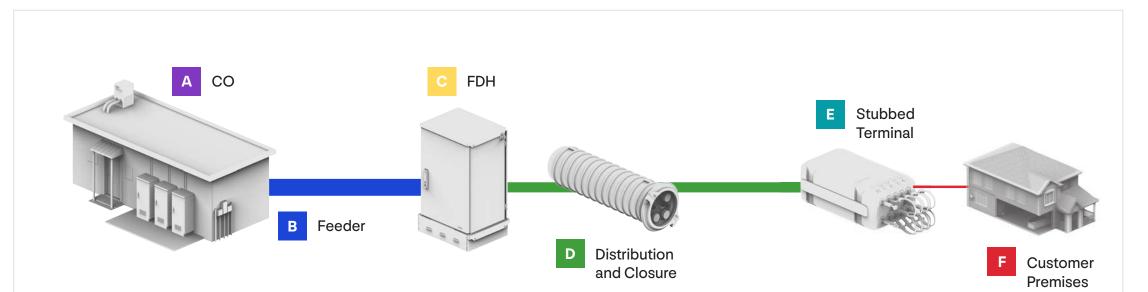


Evolv® terminals are up to 4x smaller, significantly reducing new infrastructure pathway costs or enabling reuse of existing assets.

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.





Centralized Split Option 2

Full Preconnectorized

The second CS option shown on this page highlights a fully preconnectorized design leveraging FlexNAP™ cables in the distribution. Note: First layer splitters often exist in cabinets but, in smaller serving areas, may be housed in splice closures or colocated with remote OLTs.

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



See How DFN Deployed This Connectivity Solution.







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.

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



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 multifiber tethers that connect to preconnectorized stubbed terminals.



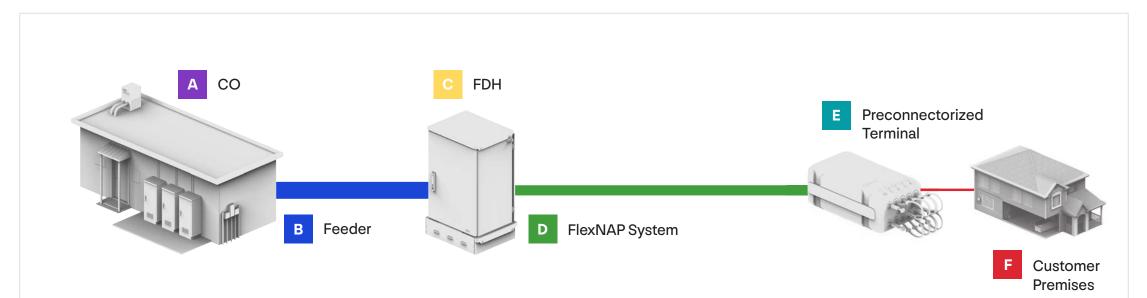


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Customer Premises



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





Product Ordering Information

Α	Central Office (CO)				
Part Number		Description			
Frame	Frame				
CTX-SA-F	FRAME-7	Standard Rear Cable Access Frame, 7 ft			
Housir	ngs				
CTX-S4U		Centrix™ Housing, 4U, 12 cassette positions, empty			
CX4WWI	P36-B3-2RJ000	432F Centrix 4U Splice Housing, 36F LCA cassettes			
CX4U831246C-xx002B		288F Centrix 4U Stubbed Housing, 24F SCA cassettes, 31-m stub, xx cable			
Cassettes					
CTXCMA	00-6C-SP8102	Centrix Splitter Cassette, 1x2 splitter, SC APC,			
CTXCMA	00-B3-SP1132	Centrix Splitter Cassette, 1x32 splitter, LC APC			
CTX360236A9-D9893B		Centrix Stubbed Cassette, 36 LCU to 3 MTP®, 2 m			
CTXCPP24-6C-2RH000		Centrix Pigtail Cassette, 24 SC APC			
CTXCA36	6-B3B	Centrix Patch Cassette, 36 LC APC			
Jumpers					
444401G	3116004M	Jumper, SC APC to SC APC, 4-m long, 1.6-mm OD			
585801G3116004M		Jumper, SC UPC to SC UPC, 4-m long, 1.6-mm OD			
222201G3116004M		Jumper, LC APC to LC APC, 4-m long, 1.6-mm OD			
020201G3116004M		Jumper, LC UPC to LC UPC, 4-m long, 1.6-mm OD			

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				
PAG-D3-DDU4SUCL6C-000LXFA	Panel Access Cabinet, pole mount, 432 fibers, 72-fiber feeder, 72-fiber pass through, ALTOS® Lite armored cable, 31-m stubs			
PAG-C3-CCU4SU4P6C-000LXFA	Panel Access Cabinet, pad mount, 288 fibers, 48-fiber feeder, 48-fiber pass through, ALTOS dielectric cable, 31-m stubs			
WMR4CC6CA6C11132	LS Series Splitter Module, 1x32			
EDBS00BBSC00BBS00P	Local Convergence Point Enclosure, 144 fibers, Loose Tube feeder cable, splice capable			
XSB1DDA91A911132	Local Convergence Point Enclosure, splitter module, 1x32			

Ontion 1, Coble & Colina Class

D Option 1: Cable & Splice Closures				
Part Number	Descr	Description		
Ribbon Cables				
xxxZC5-14100D53 SST		bbon Armored (144-864 fibers)		
xxxEC4-14100D5	3 SST-Ri	SST-Ribbon Dielectric, Non-Armored (012-216 fibers)		
xxxEV4-14100D53 SS		traRibbon Dielectric, Non-Armored (288-864 fibers)		
Loose Tube Cables				
xxxZU4-T4F22D2O ALTC		Loose Tube Cable (012-288 fibers)		
xxxZUC-T4F22D20 AL		ALTOS Lite Armored Loose Tube Cable (012-288 fibers)		
Microduct Cables				
xxxZM4-T4F22A20 MiniXt		end Cable (012-144 fibers)		
xxxZH4-Y4F40A20 MiniX		end HD Cable (144-288 fibers)		
xxxZH4-S4F40A20 Minix		end HD Cable (288-432 fibers)		
Splice Closures				
SCF-6C28-01		Splice Closure, 288 single-fiber splice capacity, 6-in diameter, 28-in dome length, four drop ports, without splice trays		
SCF-ST-112		SCF Splice Trays, 24 heat-shrink single-fiber splices		
SCA-9T24-LRS		SCA Aerial Terminal, SNAP-9T24, standard end caps, direct fusion splicing, 16 drop ports		
BPEO-SO-MXT-04T1-D69-4S7		BPEO Splice Closure Size 0, MiniXtend		

D Option 2: FlexNAP™ System				
Part Number	Description			
FlexNAP Trunk C	FlexNAP Trunk Cables			
FNAP-CBL-xxxEU4	FlexNAP Distribution Trunk Cable, ALTOS® loose tube cable, dielectric, xxx fibers (012-432 fibers)			
FNAP-CBL-xxxEUC	FlexNAP Distribution Trunk Cable, ALTOS loose tube cable, armored, xxx fibers (012-432 fibers)			
FNAP-CBL-xxxEV4	FlexNAP Distribution Trunk Cable, RPX® ribbon cable, dielectric, xxx fibers (024-144 fibers)			
FNAP-CBL-xxxEV2	FlexNAP Distribution Trunk Cable, RPX ribbon cable, toneable, xxx fibers (024-144 fibers)			
FlexNAP Tether	Attachment Points			
FSU4AxxM2TN005F	FlexNAP Tether Attachment Point, ALTOS loose tube cable, dielectric, xx fibers (02-12 fibers)			
FSUCAxxM2RN015F	FlexNAP Tether Attachment Point, ALTOS loose tube cable, armored, xx fibers (02-12 fibers)			
FSV4AxxM2TN005F	FlexNAP Tether Attachment Point, RPX ribbon cable, dielectric, xxx fibers (04, 08, or 12 fibers)			
FSV2AxxM2RN015F	FlexNAP Tether Attachment Point, RPX ribbon cable, toneable, xxx fibers (04, 08, or 12 fibers)			

Е	Option 1:	Stubbed Terminals
Part Number		Description
Terminals		
DMA4F1F	DD1NCxxxF0P	Evolv® Terminal, 4-port, SST dielectric cable, xxx feet
DMA8F1T	DD1NCxxxF0P	Evolv Terminal, 8-port, SST toneable cable, xxx feet
DMATF1M	ILD1NCxxxF0P	Evolv Terminal, 12-port, MiniXtend® cable, xxx feet

Part Number	Description	
Terminals*		
DFA4F1yDD1M1xxxF0P	Evolv Terminal, 4-port, OptiTip® connector, xxx feet	
DFA8F1yDD1M1xxxF0P	Evolv Terminal, 8-port, OptiTip connector, xxx feet	
DFATF1yDD1M1xxxF0P	Evolv Terminal, 12-port, OptiTip connector, xxx feet	
*"y" indicates either dielectric (F) or toneable (T)		

E Option 2: Preconnectorized Terminals

Get Started Now

Corning's support of internet service providers goes beyond products.

For product technical support, engineering services planning, and design support or guidance on industry best practices, visit **www.corning.com/cbbu**, contact your local Corning sales representative, or reach our to a subject matter expert for a consultation at: **connect@corning.com**.

Customer Premises Part Number Description Drops OOD101EB49RxxxF-P ROC™ Drop Cable, Pushlok™ to Pigtail, dielectric, xxx feet 00D101EB19RxxxF-P ROC Drop Cable, Pushlok to Pigtail, toneable, xxx feet D14401EB4R3xxxF-P ROC Drop Cable, Pushlok to SC, dielectric, xxx feet D14401EB1R3xxxF-P ROC Drop Cable, Pushlok to SC, toneable, xxx feet Round ROC Drop Cable, below-grade jetting/duct, Pushlok 00D101UB4JRxxxF-P to pigtail, xxx feet Field-Installable Connectors OSNP-SCA-900-Z OptiSnap® Field Installable Connector, SC APC, Qty 25 OptiSnap™ Connector Installation Toolkit with flat cleaver TKT-OPTISNAP-CF (FBC-009), fiber prep and cleaning supplies, gray case NPC+ (No Polish Connector), field-installable SC APC, NPCP-SCA-48 compatible with 250 μm and 900 μm fiber, no toolkit required, package of 48 connectors TKT-NPCP-FBC007 FBC-007 precision cleaver plus accessories for NPC+ Fiber Transition Housing Fiber Transition Housing, 1 SC APC simplex adapter, ground FTH-602-A1100 post for toning, hex security screw, 3-m slack storage Fiber Transition Housing, 1 SC APC simplex adapter, hex FTH-602-A0100 security screw, 3-m slack storage



To meet your requirements, we've nurtured long-term relationships with authorized distributors who stock our products and further support your needs including training, customer needs assessment, logistics, and equipment. Whether you are an end user, contractor, or installer, connect with our authorized distributors to purchase your Corning solution today.















