CORNING

Centrix™ System

High Density Meets Versatility

The Corning Centrix™ System offers our highest-density solutions for inside plant (ISP) applications. It is available as 2880 SC without splitters and 4320 LC without splitters, and the system has a scalable design that allows for seamless expansion and configurations.

Simplified Jumper Routing

Working within the GR-449 footprint, our engineers have dedicated 20% more frame space to jumper routing for easy and efficient cable management. The Centrix Solution is also unique in that no matter where you are on the frame, you'll only need a 13.12 ft jumper to connect. Other systems often require multiple jumper lengths, adding product ordering and management complexity.

In addition, you can use .08 inch OD jumpers for SC and .06 inch OD jumpers for LC. You never need to deploy thinner .05 inch jumpers.

Smaller Cassettes

The Centrix™ System uses smaller, 15-inch-wide cassettes, unlike most standard cassettes, which are 19 or 23 inches wide. Our space-saving cassettes offer industry-leading density while fitting seamlessly into 1, 2, and 4 RU housings, making them ideal for point-of-presence (PoP), huts, remote terminals, or active fiber cabinets.

Configurable Cassette Types

Centrix cassettes can be loaded and configured to suit your needs. Choose from patch, splice, splitter, stubbed, MTP®, WDM, and coexistence options.

Clear Labeling

Designed with technicians in mind, the Centrix System has clear labeling on the front and top of the cassettes. When you drop the front down to access the ports, the label flips back up so you can easily see which port you're working with.

Convenient Access

With easy finger access, you can pull out cassettes by simply releasing the top to expose the ports. While the cassettes lock into place and are GR 449 compliant, the ports are unobstructed so you can clearly see and access them. Jumpers are held in place by a clip on the side to keep them tidy throughout the entire process.

This ease of accessibility sets the Centrix System apart: You never have to reach inside the housing to access the ports. All components remain clearly visible at all times, reducing the chances of an accidental disconnect.

Accessories

The Centix System is equipped with a service bracket and a work shelf that allow for easy on-frame splicing.

Frequently Asked Questions

Product

1. What options and variations are available in the Centrix System portfolio?

Centrix System	Port Capacity	Dimensions (H)	Dimensions (W x D)	Footprint	Availability and Region	Lead Time	Cabinet Access
Single Cabinet	Up to 4,320 LC 2,880 SC 1,440 LSH		2.95 x 0.98 ft	0.89 ft²	EMEA, APAC, CALA, US/CAN	4 weeks Ex Works	Front Only
Dual Cabinet	Up to 8,640 LC 5,760 SC 2,880 LSH	Available in: 7.22 ft Other heights on request	5.91 x 0.98 ft	1.77 ft²	EMEA, APAC, CALA, US/CAN	4 weeks Ex Works	Front Only
Quad Cabinet	Up to 17,280 LC 11,520 SC 5,760 LSH		5.91 x 1.97 ft	3.54 ft²	EMEA, APAC, CALA, US/CAN	4 weeks Ex Works	Front and Rear

2. How many ports can I manage with a single patch cord length?
    Port capacity is dependent upon the respective port capacities of the single, dual, and quad cabinets.

3. Can I install preterminated cable assemblies in this cabinet?
    Yes, the Centrix System cabinet supports both single and multifiber connector-based cable assemblies.

4. How is patch cord slack managed? What overlength does the cabinet support?
    Patch cord slack is managed in a free loop inside the cabinet. The slack is used to accommodate different port positions in an "every-to-any" cross-connect configuration. Patch cord lengths are defined by cabinet height and row configuration.

Product (Continued)

5. **What type and length of patch cord is recommended for use with this cabinet?**
Patch cord lengths are defined by cabinet height and row configuration, e.g., 13.12 ft for a quad frame, 7.22 ft height configuration with up to 17,280 ports.

6. **Does the system require the use of .05 inch outer diameter (OD) patch cords for full capacity?**
No. It is not required to use .05 inch OD patch cords to reach full capacity or scaling of the system beyond 100,000 ports.

7. **How can feeder cables/trunks enter the cabinet (top/bottom)?**
Cabinets come with cable entries on the right or the left side.

8. **Which standards or environmental conditions does the cabinet comply with?**
The Centrix™ System cabinets have been tested for:
Shock: IEC 60068-2-27 | Vibration: IEC 60068-2-6

9. **Are accessories, such as cable strain-relief and routing hubs, included?**
Cable strain-relief and routing hubs are included in the cabinet as standard accessories.

10. **What accessories are included in the base configuration of the cabinet?**
The base configuration includes:
- Patch cord management hubs (10 pcs)
- Cable strain-relief plates (5 pcs)
- Bolts for fixing the cabinet to the floor (4 pcs)
- Bolts for fixing the cabinet side by side (4 pcs)

11. **What is the capacity of the Centrix System housings?**

Housings	Capacity
1U	3 cassettes, up to 108 LC ports, 72 SC ports, and 36 LSH ports
2U	6 cassettes, up to 216 LC ports, 144 SC ports, and 72 LSH ports
4U	12 cassettes, up to 432 LC ports, 288 SC ports, and 104 LSH ports

12. **How are patch cords managed in the high-density cross-connect?**
Patch cords are managed through a combination of simple routing rules, maximized access and handling space, and a single defined patch cord length for any connection between two ports in single, dual, or quad configurations.

13. **What type of cable does the cabinet accept?**
The cabinet accepts any type of fiber optic cable: indoor- or indoor/outdoor-rated, armored, with or without central strength member, and virtually any diameter up to the OD of the cable entry.

Application

1. **Why should I use the Centrix™ System cabinet?**
   Patch cord management is one of the biggest challenges in high-fiber-count environments. When running a system with many hundreds of connection points and a significant growth or churn rate, connections between different network areas need to be managed properly in order to maintain service levels, system integrity, and response times. A cabinet that consolidates high-fiber port numbers can facilitate easy patch cord management even at high load rates.

2. **What are the applications for this type of cabinet?**
   The Centrix System cabinet is designed for large and midsize fiber nodes in central offices, headends, mobile switch centers, data centers, points of presence, distribution and access networks, as well as meet-me room applications.

3. **What are the benefits of a very high-density cross-connect system?**
   Patch cords can be kept short and at a few easily predictable lengths. They are better protected, managed, and handled when staying inside a cross-connect cabinet, avoiding the need to run them across cable trays.

4. **How is the system documented for operation (port mapping, patch cord routing)?**
   Individual port identification label space is provided on the drop handle lid on the front of the cassette. Routing hubs and related patch panel spaces are numbered and color labeled, which corresponds to matching labels on the cassettes to indicate patch cord routing paths. Examples are described in the installation instruction documents provided with the cabinet.

5. **Can the cabinet be secured against unauthorized access?**
   Yes, lock options are available.

6. **How is the system linked to management software (IMS)?**
   Corning provides CAD elements and Visio® stencils of all hardware components for visualization in infrastructure management software platforms. Patch cords and trunk assemblies can be provided with individual ID labels with barcodes or QR tags.

7. **How do I integrate this system with my existing infrastructure?**
   Cable and patch cord exits at the top and bottom, and patch cord exits left and right, connect to existing cabling systems and infrastructures. Frame adapters to adjust the interface between dimensional differences are available. An overlength management frame (OLM) can be used to manage patch cord slack.

Application (Continued)

8. **How can a cabinet be expanded?**
Cabinets can be combined to dual or quad configurations using a single patch cord length. Further expansions in rows require additional patch cord lengths. An OLM and top cable bridge system are available for expansions across rows.

Centrix™ System	Cable Length
Single Cabinet	
Dual Cabinet	13.12 ft (For 7.22 ft cabinet)
Quad Cabinet	

9. **Does the cabinet support external patch cord connections to others?**
Yes. Patch cords can be routed to other cabinets over the top of the cabinet or in the bottom tray.

10. **How do you define a quad and dual solution?**
A dual-cabinet configuration has two cabinets side by side with connected patch cord management areas, which allows patching across without needing a different patch cord length or routing scheme.

Quad-cabinet configurations are defined as two dual cabinets placed back to back, built with Centrix System front access cabinets. The rear walls are open below the patch cord management hubs to allow patch cord routing from front to back without needing a different patch cord length or routing scheme.

These configurations enable up to 17,280 fiber ports to be freely cross-connected using a single patch cord length and a footprint of 3.28 square feet.

Enhancement

1. **What are the features and benefits of the Centrix System?**
Features of the Centrix System include:

- Single patch cord length for up to 17,280 LC fiber ports
- Improved patch cord management options over the previous versions of Centrix
- New optical device functions in cassettes

- Improved feeder cable area and strain-relief options for bare cables, trunks (cable assemblies), and speed pipes with gas seals
- Improved cable containment for raised floor cabling
- Improved door installation

2. **Can I combine the Centrix System with other hardware?**
Yes, Centrix System housings can be mounted into standard 19-inch racks using the supplied mounting brackets.

Collaterals

1. **What supporting documents are available?**
Data sheets, installation, and operation instructions (SRPs), and specification texts are available online. For additional information, visit our online catalog.

Click to learn more about the Centrix System in your Data Center and Central Office

Services

1. **What is the standard lead time for the cabinet?**
   Standard lead time is four weeks.

2. **Is the cabinet shipped fully assembled or in separate pieces?**
   There are two options: preassembled, or in flat packs for on-site assembly. Fully loaded cabinets, including connectivity components, can be configured upon request, but it is not recommended to ship this way.

3. **How is the product packaged?**
   Front-access frames and cabinets are shipped preassembled on a pallet or in flat packs for easy transport.
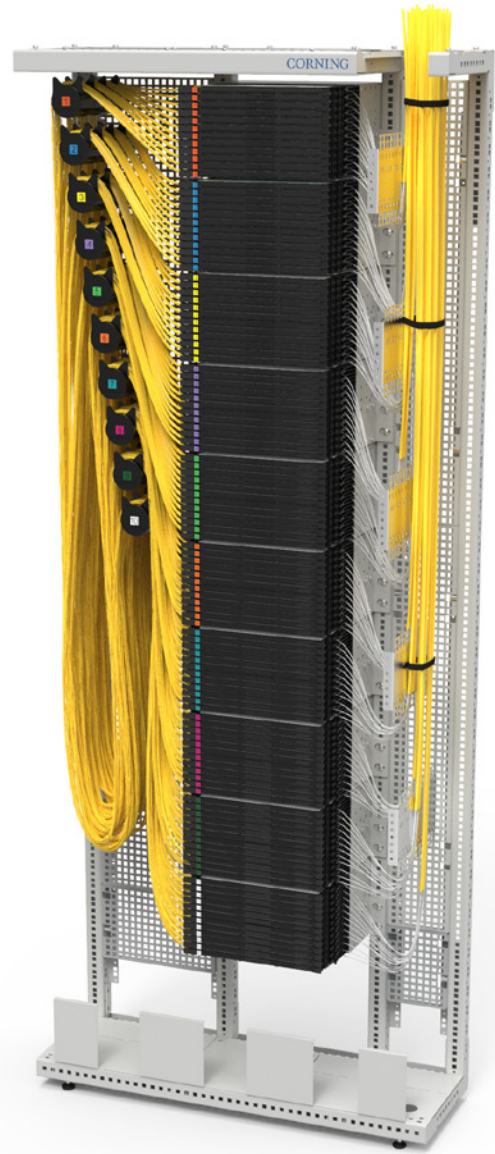
If you like this product, you might like these!

EDGE™ Distribution Systems is an innovative new solution for server row cabling.

Learn more here

EDGE Rapid Connect is great for a preconnectorized solution with a fast installation.

Learn more here
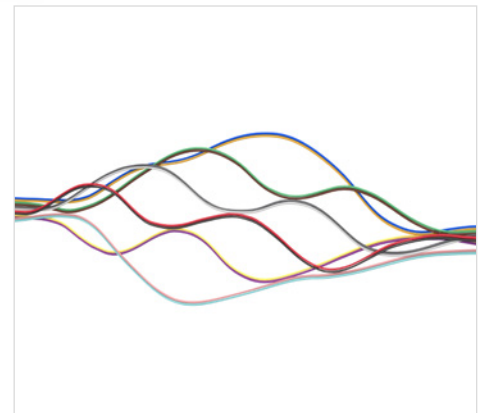
MiniXtend® Ribbon Cable-200 Flow and RocketRibbon® XD Cable-200 Flow optimize duct capacity with OD reduction up to 60%.

Learn more here

CORNING