

CORNING

# Outside Plant to the Meet-Me-Room

Flexible, modular, and rapid deployments

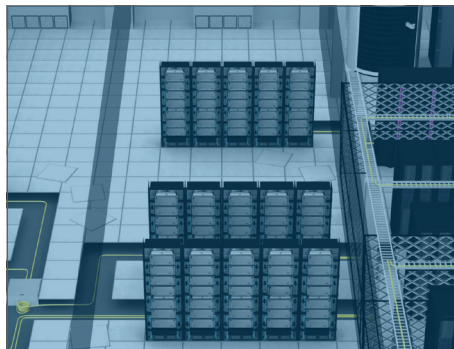
Multitenant Data Centers (MTDCs), also known as colocations, have a variety of requirements when it comes to servicing their end users. Corning assists in offering the precise service, quality, and value expected in a solution. We provide a wide variety of products for outside plant (OSP) and meet-me-room (MMR) applications, enabling:

- Solution flexibility with preterminated, splice, and field-terminated options
- Simplified inventory through a single jumper length in the MMR
- Easy access to individual connections to minimize risk with live circuits
- Port utilization without compromising client security
- Clear-and-simple migration paths to higher-speed technologies
- Meeting the SLA through our global network of authorized distributors

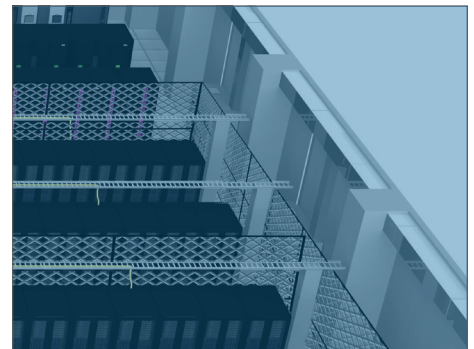
## Outside Plant to the Meet-Me-Room



## Main Distribution Area



## Cage



# Field-Installable Solutions

## Low installation cost and optimum optical performance

OSP cable often needs to be field terminated and consolidated in the MMR. Carriers and MTDCs use this space to interconnect or cross connect to end users. Often the OSP is already installed and can't be preterminated in a factory. In addition to consolidating the OSP cable, MTDCs with designated splicers for low fiber counts can utilize their assets better with field termination. Field-installable solutions allow:

- The MTDC or carrier to control the speed of deployment
- Determine the type of connectivity needed for the data center network
- Lower wait times through readily available bulk cable from the Corning network of distributors
- Custom, modular, and compatible optical connectivity solutions

## Outside-Plant Cables



### MiniXtend® HD Cable with Binderless\* FastAccess® Technology

- Available in 12-288 fibers
- Innovative cable design that reduces cable access time up to 70%
- Small cable OD enables higher density and lower deployment cost; up to 96 fibers in 8-mm ID duct and up to 144 fibers in 10-mm ID duct

### MiniXtend® HD Cable

- Available in 144-288 fibers
- 60% smaller and up to 70% lighter than standard loose tube cables and up to 20% smaller than standard micro cables.
- 144-fiber outer diameter of 0.25 in and 288-fiber outer diameter of 0.38 in



### ALTOS® Loose Tube Cable with Binderless\* FastAccess Technology and ALTOS Lite Loose Tube Cable with FastAccess Technology

- Available in 12-72 fibers
- Fully waterblocked loose tube, gel-free design
- Reduce the risk of fiber damage during cable access



### Corning® RocketRibbon™ Extreme-Density Cable

- Available in 1,728 and 3,456 fibers, also available in 200 micron
  - OD for 1,728 fiber cable is 25 mm
  - OD for 3,456 fiber cable is 32 mm
- Flexible subunits containing stacks of 288 fibers can be easily routed directly into hardware without furcation



### FREEDM® Loose Tube, Indoor/Outdoor, Gel-Free Cables, Plenum

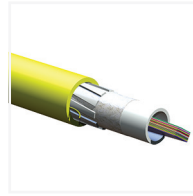
- Available in 6-72 fibers
- Eliminate the need to transition splice when entering the building and minimize routing restrictions once inside the data center

## Inside-Plant Cables



### MIC® Unitized Tight-Buffered Cables

- Available in 36-144 fibers
- Compatible with closet connector housing (CCH) pigtail cassettes
- 900 µm buffered fibers
- Also available in lower fiber count up to 24 fibers



### Ribbon Indoor Gel-Free Cables

- Available in 12-216 fibers
- Up to 48 fibers in an 8.1 mm buffer tube duct
- Maximum attenuation (dB/km): 0.4/0.4/0.3

## Connectorization/Hardware



### Closet Connector Housing Panels

- Broadest range of fiber count and adapter types
- Provide interconnect or cross-connect capability in a housing at main cross-connections, intermediate cross-connections, telecommunication rooms, or work areas



### CCH Pigtailed Cassettes

- Preloaded and prerouted for quick fusion splicing of either individual or ribbon-fiber pigtails
- Enable faster field splicing and easy modular management of connectorization within the housing



### UniCam™ High-Performance Toolkit

- Ease-of-use through high-quality tools assembled in a rugged case
- Includes a lightweight, handheld installation tool with an immediate go/no-go feedback signal to indicate proper mating of the field fiber to the fiber stub



### UniCam® High-Performance Connectors

- High-precision connectors guarantee exceptional insertion loss: 0.1 dB typical/0.5 dB maximum per connector
- Consistent optical performance through a factory-polished end face



### FuseLite® Single-Fiber Splice-On Connectors

- Insertion loss: 0.15 dB typical/0.3 dB maximum per connector
- Eliminate the need for splice trays and are compatible with leading fusion splicers in the market



### FuseLite MTP®-Compatible Splice-On Connectors

- Insertion loss: 0.25 dB typical/0.75 dB maximum per connector
- Ideal for cable-trunk restoration and repair



### Optical Splice Enclosure RXD and RXD-HD

- Available in capacity for 6,912 mass fusion splice or 13,824 mass fusion splice. Optimized for Corning® RocketRibbon™ Extreme-Density cable



### Closet Connector Housing

- Variety of field-termination options
- Adaptable to use as modular splice housing
- Splices are stored and protected in same footprint





## Standard-Density Solutions

### Fully integrated, preterminated solutions

In the MMR, standard density and field termination can coexist. Standard-density universal systems are ideal for lower-fiber-counts and minimal patch panels. For low-fiber-counts, the Plug & Play™ solution is the best bet. Standard-density solutions allow:

- Quicker installs through readily accessible housings in our global network of distributors
- Simplified connections to the cage with MTP®-to-LC harness solutions
- Efficient cross-connects and interconnects through LC-to-LC jumpers
- Corning solutions support top-of-rack, middle-of-row, and end-of-row architectures
- Reduce risk by ensuring the correct fiber polarity throughout the entire system with universal polarity



# Connectorization/Hardware



## Closet Connector Housing Panels

- Broadest range of fiber count and adapter types
- Provide interconnect or cross-connect capability in a housing at main cross-connects, intermediate cross-connects, telecommunication rooms, or work areas



## Plug & Play™ Universal Systems Modules

- Provide the interface between the MTP® connector on the trunk and the LC jumpers that will connect directly to the electronics



## Plug & Play Universal Systems MTP Adapter Pane



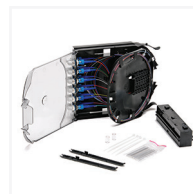
## CCH Splice Cassettes

- Eliminate the need for individual splice trays or separate splice housings and allow splicing to be done away from the rack housing in a suitable workspace



## CCH Termination Cassettes

- Suitable for use with field-installable connectors
- Economical way to provide modularity, segregation, and added protection and security to your direct-terminated fibers inside any of the four CCH housing options



## CCH Pigtailed Cassettes

- Enable faster field splicing and easy modular management of connectorization within the housing
- Preloaded and prerouted for quick fusion splicing of either individual or ribbon fiber pigtails



## Uniboot Jumper in a Box

- Jumpers per box range from 30-70 and lengths available from 1-20 m or 3-65 ft
- Maximum attenuation: 0.4 dB/km / 0.4 dB/km / 0.3 dB/km
- Save valuable time, space, and money



## Two-Fiber Jumper

- Available from 1-250 ft
- Insertion loss: 0.25 dB maximum per connector



## EDGE™ Solutions Reverse Polarity Uniboot Duplex Jumpers

- Quick-and-easy conversion from a TIA-568 A-B polarity to a TIA-568 A-A polarity without exposing the fibers or needing any tools
- Insertion loss: 0.25 dB maximum per connector



## Closet Connector Housing

- Variety of field-termination options
- Adaptable to use as modular splice housing
- Splices are stored and protected in same footprint



## Optical Splice Enclosure RXD and RXD-HD

- Available in capacity for 6,912 mass fusion splice or 13,824 mass fusion splice. Optimized for Corning® RocketRibbon™ Extreme-Density cable

# High-Density Solutions

Optimized for simplicity, attenuation, and total cost

Corning® CleanAdvantage™ technology ensures a pristine end face upon first use for all our EDGE™ and EDGE8® solutions.

In the MMR, high-density solutions are best for connections between MTDC locations. When managing higher-fiber-counts and numerous patch panels is a priority, the EDGE™ solutions are the appropriate choice. Unique design allows for balance between effective cable management and unprecedented finger access without the need for tools or other accessories.

High-density solutions enable:

- The best of high-density fiber management with field-termination capabilities
- Full fiber utilization from the MDA or cage using high-fiber-count cables
- Quicker speed to revenue through high-fiber-count trunks for faster moves, adds, and changes
- Reduced inventory by utilizing the pinned EDGE8® trunks and controlling the cable variants for direct, interconnect, and cross-connect scenarios





# Connectorization/Hardware



## EDGE™ Universal Modules

- Maximum insertion loss: 1.0 dB and 0.6 dB for ultra-low-loss
- With Corning® CleanAdvantage™ Technology and optimized caps
- Provides the interface between the MTP® connector on the trunk and the LC duplex jumpers that will connect directly into the cross-connect in the main distribution area



## High-Fiber-Count Assemblies

- Factory-terminated and tested cable assemblies
- Furcation free and finger-peelable subunits for instant fiber access
- Solid ribbon matrix for easy identification and mass fusion splicing
- Available in LC and MTP connector type
- High-fiber-count LC assemblies available in 96 fiber, 192 fiber and 288 fiber
- High-fiber-count MTP® assemblies available in 288 fiber



## EDGE SE Splice Cassette

- Module insertion loss: 0.5 dB
- Preloaded multisplice cassette with 12-color LC pigtailed for termination of multiple fiber optic cable types



## 12-Fiber MTP Jumper

- Reduce risk with easy-to-change pinning and polarity in the field
- MTP connector insertion loss: 0.35 dB
- With CleanAdvantage Technology and optimized caps



## EDGE LC Duplex Uniboot to LC Duplex Uniboot Trunks

- Easy to install with strain-relief clips that allow for tool-less installation
- Flexibility with both Plug & Play™ and EDGE housings



## EDGE MTP-to-MTP Trunk

- With CleanAdvantage Technology and optimized caps
- Build up the major backbone of the passive network infrastructure, and enable rapid deployment for your data center facility
- Strain-relief grip and tool-less installation



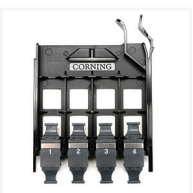
## EDGE HD Housing

- Available in 1U, 2U, and 4U
- Flexibility of installing both EDGE solutions or Plug & Play universal systems cable designs



## Optical Splice Enclosure RXD and RXD-HD

- Available in capacity for 6,912 mass fusion splice or 13,824 mass fusion splice. Optimized for Corning® RocketRibbon™ Extreme-Density cable



## EDGE MTP Adapter Panel

- Enables pay-as-you-grow approach
- Available in two, four, and six adapters per panel



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