



CORNING

## Ratchapark Building, Bangkok

# Providing future-ready technology with pre-connectorised FTTH solutions

Headquartered in Bangkok, JUN Thailand is a telecommunications distributor supplying solutions to service provider, enterprise, and government customers throughout Thailand. Since its establishment more than 10 years ago, JUN has become one of the leading telecom-focused distributors in the region.

### Network upgrade with minimal disruption

In 2016, JUN was approached by a commercial multi-dwelling unit (MDU) owner in Bangkok to assist with upgrading the building's aging network.

Tasked with selecting the infrastructure components and managing the installation, JUN needed to address the 18-storey building's slow connection speed, which was impacting its ability to compete in the local real estate market in the highly sought after commercial district. The primary goal of the upgrade was to meet the building customers' bandwidth and network speed requirements. At the same time, the upgrade needed to be quick and issue-free, so there would be minimal disruption to the tenants and their businesses.

### Collaboration for a future-ready MDU

JUN understood the issues and objectives and knew a manufacturer with proven products and experience was needed, especially with the building owner's expectation of an accelerated deployment.

"We wanted to design an all-optical network that would support bandwidth demand and could be replicated across different building types and sizes," said Sang Jun Lee, President at JUN Thailand.

"With our experience in the telecommunications industry, we were confident that Corning could help us deliver labor cost savings during the installation, as well as a quick and reliable deployment for the building owner."

**"It's no easy task to create seamless bandwidth capacity in an older building with already connected tenants. We were confident that a Corning all-optical pre-connectorised MDU solution would best meet the strict requirements of the building owner and the bandwidth demands of the building's tenants."**

**Sang Jun Lee**  
President, JUN Thailand



Corning is one of the world's leading innovators in materials science. For more than 160 years, the company has applied its unparalleled expertise in specialty glass, ceramics, and optical physics to develop products that create new industries and transform people's lives. Corning is a pioneer in the design and development of fibre-to-the-home

(FTTH) solutions for both single-family and multi-dwelling units, developing many of the products that make it possible to quickly and cost-effectively push fibre closer to the end-user. Today, Corning solutions have been used to pass in excess of 35 million homes worldwide.

Sharing a vision for innovation, Corning worked alongside JUN with a collaborative design process, providing technical and field support before, during, and after the installation.

The two companies worked closely with the building owner to gather the basic requirements: an understanding of the size and type of the MDU, the building architecture, and installation restrictions and requirements. The building owner relied upon JUN and Corning to manage other factors such as aesthetics, labor skill level required, and rights-of-way access.

### Realising the advantages of pre-connectorised solutions

After evaluating the requirements, JUN proposed one of Corning's pre-connectorised FTTH solutions. Pre-connectorised solutions can provide significant benefits to end users, connecting premises as much as 50 percent faster than traditional spliced products while practically eliminating errors during installation.

"The flexible solution can be installed quickly and reliably, and installation is simple and straightforward," said Lee. "The expertise Corning brings, with years of global MDU deployments, was also a contributing factor to the decision."

Corning's modular basement distribution terminal (MBDT) was installed on the building's façade. Providing universal functionality in MDU installations, MBDT modules can be deployed for multiple applications, including splice, splitter, and pre-connectorised installations. Each module is comprised of two areas with separate doors: one cable entry and management area, and one connection and patch management area.

Mounted externally on various floor levels, OptiSheath™ multiport terminals provided fast, easy incremental connection of subscriber drop cables while also increasing deployment velocity. Its reliability and flexibility make it the ideal choice for network access point terminals in FTTH deployments within a complex environment like an MDU.

In the building's riser space, OptiRise™ cable assemblies containing bend-optimised Corning® SMF-28e® XB optical fibre delivered the virtually unlimited bandwidth of optical fibre to each floor. From there, a drop connection provided service to each tenant.

Utilising bend-insensitive Corning® ClearCurve® optical fibre in the drop cable – from the floor box to each tenant's premises through tight bends and challenging spaces – helped mitigate the risks of bend-induced loss that can impact the performance and reliability of a network. Such bending of cables becomes commonplace during the lifetime of any network.

The installation was completed quickly, with virtually no impact to the tenants. "The building owner was extremely pleased with the speed of deployment," said Lee. "Corning completed the deployment of the 18-storey building within one day, and it was deployed on a weekend to minimise any disruption to the tenants and their businesses."

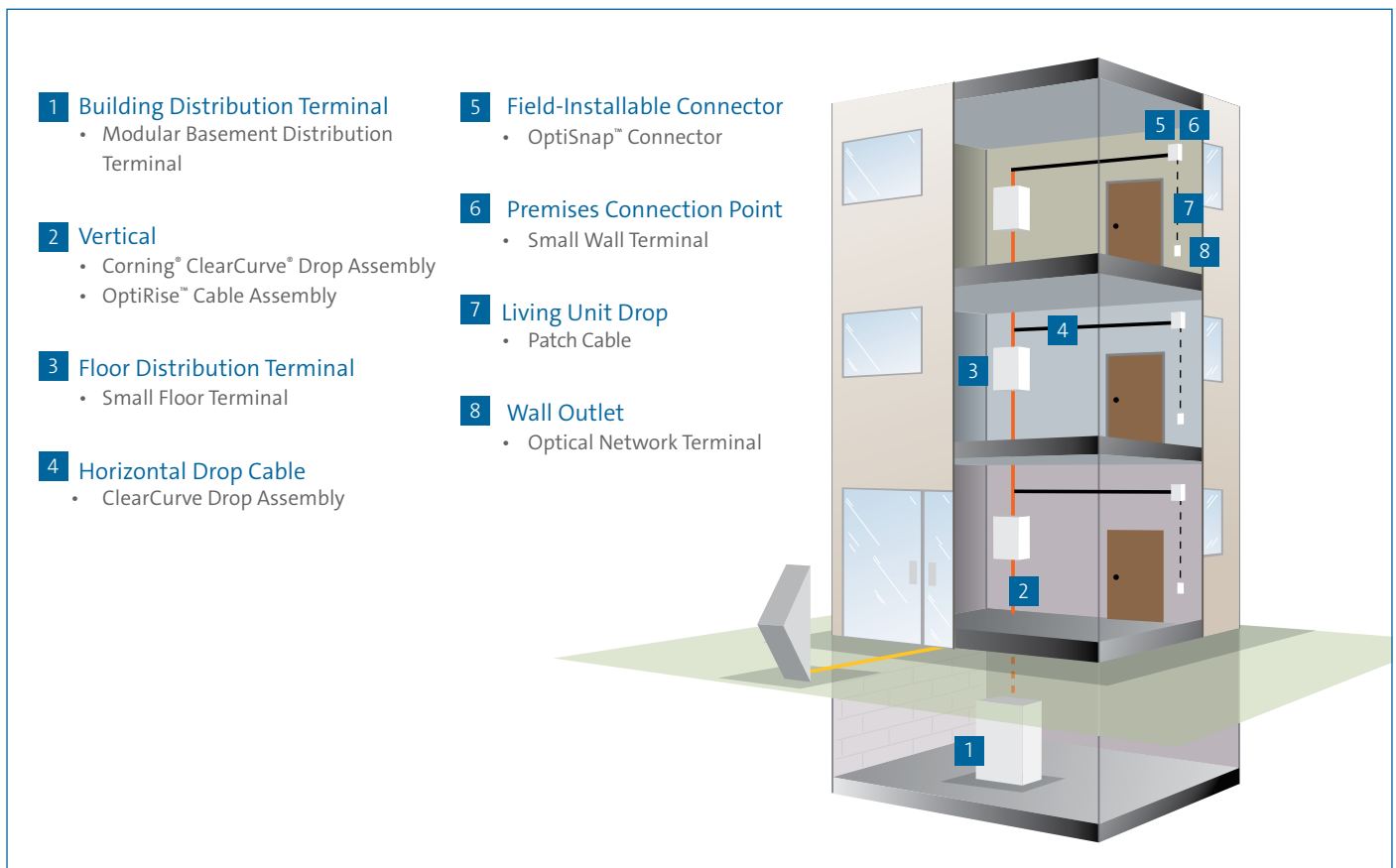
## A network model for other opportunities

Working together, JUN Thailand and Corning provided the building owner with a future-ready MDU network. In fact, the owner is already working with Thailand's largest mobile operator to provide high-speed internet services to its tenants.

And according to Lee, the network can be replicated by others looking to upgrade or replace their service offerings in high-rise buildings, small condominiums, and even multiuse properties with a mix of business and residential customers.

“We expect this scalable and successful MDU deployment to trigger understanding of flexible and fast network upgrade and deployment options, in buildings of all sizes and with different architectures,” he added. “Providing the ultimate in solution reliability, Corning and JUN delivered an infrastructure that can optimise the network’s capabilities well into the future.”

**Sang Jun Lee**  
President, JUN Thailand





CORNING

Corning Optical Communications Pty Ltd • 211 Wellington Road, Building C, Level 2 • Mulgrave, Victoria 3170, AUSTRALIA  
+61 3 9538 2300 • FAX: +61 3 9538 2316 • [www.corning.com/opcomm/australia](http://www.corning.com/opcomm/australia)

Corning Optical Communications reserves the right to improve, enhance, and modify the features and specifications of Corning Optical Communications products without prior notification. A complete listing of the trademarks of Corning Optical Communications is available at [www.corning.com/opcomm/trademarks](http://www.corning.com/opcomm/trademarks). All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified. © 2017 Corning Optical Communications. All rights reserved. CRR-704-A4-BEN / August 2017