



# Corning Enterprise Newsletter

## Europe, Middle East and Africa

Issue 5, 2016

### Product Focus

#### Secure solutions for field-installable or pre-terminated connectivity

- Help secure mission critical networks against unauthorised access
- Help prevent inadvertent connection to the wrong network
- Provide faster and easier network identification

**The challenge:** When making moves, adds, and changes (MACs) or troubleshooting your network you must be able to identify cables and connections quickly and accurately to safeguard against unauthorised access, wrong connection, and even downtime due to an incorrect disconnection. Many organisations are also required to segregate their networks due to privacy or security concerns and keep them secure at the physical layer.

**The solution:** Our secure solutions allow a completely customisable installation of fibre optic connectivity to easily identify high-risk and low-risk aspects in your network, or identify different networks, applications, or network classifications within your facilities. They help you safeguard your network at the physical layer without compromising its flexibility or your budget. You can now customise the keying and colour coding of LC and MTP connectors and cable jackets to provide a tip-to-tip secure connectivity solution.



For more information please download our secure solutions datasheet.

[Download Datasheet!](#)



Coloured keyed LC connectors



Coloured non-keyed MTP connectors

Our broad range of secure solutions for pre-terminated or field-terminated fibre optic cabling products can be deployed in campus, building, and office LAN environments as well as data centre networks.

- **Fast and easy:** Twelve easily identifiable colours help segment your network, assist in visual separation of adjacent networks, and help prevent inadvertent connections.
- **Safeguards:** Use coloured keyed connections for higher-risk areas and non-keyed for lower risk areas. The coloured key feature cannot be violated with non-keyed connectors.
- **Flexible use:** Available in 12 different colours for both pre-terminated or field-terminated optical fibre cabling solutions, including EDGE™ and EDGE8™ solutions, Plug & Play™ systems, and CCH hardware.
- **Tip-to-tip:** Complete connectivity solution, including adapter panels, modules, harnesses, trunks, patch cables, and UniCam® connectors.

### Application in campus backbones

Different coloured connections, keyed or non-keyed, can be used for connectivity across the campus backbone to identify areas of higher risk and to segregate different network applications, such as data, voice, CCTV, and building automation.

The keyed connectors on the front and back of the patch panel area can be used to match access rights to the correct network or network segment, with colours used to easily identify those networks. The keyed features cannot be duplicated with standard MTP® or LC components, thereby helping to prevent violation of network security.

### Application within data centres

The security of any data centre must take into account physical security, network security, and data and user security, much of which is focused on protecting it from the external influences.

However, data centre operations personnel are regularly faced with MACs on a daily basis. With thousands of connections within the data centre network providing connectivity between switching, computing, and storage resources, then identifying cables and connections quickly and accurately as well safeguarding against unauthorised access, wrong connection, or disconnect, becomes essential.

Using different coloured connections, keyed or non-keyed, enables you to identify areas of higher risks in your data centre, such as connectivity to mission critical computing and database resources. They can be used to identify and provide physical security of connections for different network segments or zones and even to identify connections to different switches in a spine and leaf network architecture.



Coloured EDGE modules

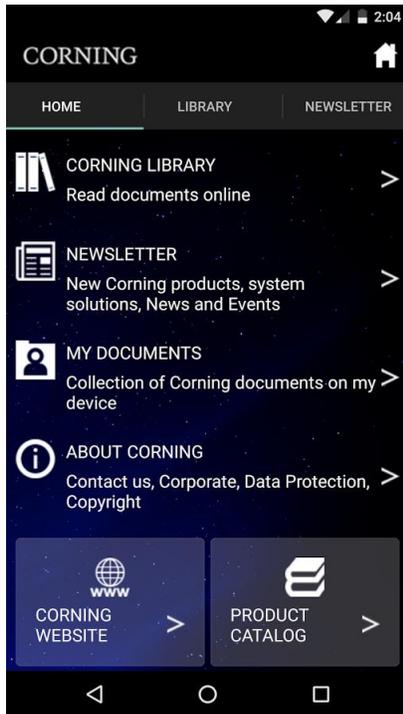
Secure solutions are available for EDGE and EDGE8 solutions, which provide a modular, optical cabling system that maximises per-rack-unit density for better network scalability and improved link performance. You can customise the structured cabling for a secure tip-to-tip solution including the modules, harnesses, trunks, and patch cables. The versatility of secure EDGE solutions can be designed around the unique requirements of your data centre environment.

### Secure pre-terminated solutions

Corning secure solutions offer one of the largest keyed pre-terminated cabling system portfolios with a tip-to-tip colour-coded solution.

Using pre-terminated assemblies for structured cabling deployment is faster, easier, and less time consuming than field-terminated options. Factory testing decreases the chance of testing failures and reworks. Secure pre-terminated solutions provide the convenience of fast and simple deployment, with easier network identification, as well as safeguarding against unauthorised access and inadvertent connection to the wrong network.

## Easy access to product information over Corning Kiosk App



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## An Interview With...

### Brian Rhoney, Director of Enterprise Market Development

Have a chat with our director of enterprise market development. How does that role fit into the organisation, and what does it mean for you?

#### Tell me about your role at Corning.

The Enterprise Market Development team is at the front end of the development process, identifying new products or service needs in the market. We work with product line managers to establish a value proposition for that product and collaborate to bring those products to market.

#### What do you enjoy most about your role?

I have always enjoyed the journey to understanding how new technology will shape our product portfolio. For example, how the parallel transmission of optical transceivers has shaped our EDGE product family with the evolution of EDGE8. It is also very rewarding to see a sales engineer get excited about a new product and its value proposition, because they know they can go and position it in the market.

#### What programmes have you been working on recently?

As a team member for the EDGE8 programme, I was able to engage with transceiver and switch vendors to understand their technology roadmaps, which ultimately shaped ours. Going from the concept stage to prototype testing and seeing the product flourish in the market has been a fun journey. I am also excited about an upcoming innovative product called the "patch cord." This will be an LC patch cord assembly that will glow when activated to aid in tracing and removal of the patch cord.



### What do you do outside of work?

With my wife of 10 years, I have two small children who consume a lot of my time outside of work. I am not sure you would quantify that as relaxing, but it sure is a ton of excitement! I am an active member of my church where I teach "Children's Church" to nearly 70 first through sixth graders. I am starting to find more time for exercise with running. With my first (and likely only) marathon in 2007, I would like to return to some of that former glory, although my wife always beats me on our runs by some distance.

## Product Updates

### LAN Product and Content News

#### New EU fire safety regulations for cables used in buildings and civil engineering construction works

The new European Union (EU) Construction Products Regulation (CPR) ensures communication cables (fibre optic and copper) meet new safety standards and essential performance criteria, as well as uniform assessment and testing methods. Compliant products will have a new CE marking that indicates the cable is rated according to the standard EN135016 and conforms to fire safety characteristics. This new CE marking came into being on 1 July, 2016, with a transition period of one year before it becomes mandatory on 1 July, 2017.



Download our CPR white paper to find out more information on cabling standards, requirements, and classification.

For an overview of CPR, [download our frequently asked questions](#) (FAQ).

Download our CPR white paper.  
[Download CPR white paper](#)

#### Russia welcomes Corning LAN products

Our products have been recently awarded Russia's GOST R certificates. As official documents, they confirm the compliance of goods with the quality and safety requirements laid down in technical regulations and government standard. Importation of goods to Russia is possible only after obtaining the relevant certificate, as they are mandatory components of export documents.

The certificates are now available online, using the following links...

- [Fibre Optic Patch Panels, LANC/LANS Housings, Centrix™ Hardware, UNISUB subracks](#)
- [Copper Patch Panels, Copper Outlets and UniCam® Connectors](#)
- [FutureCom™ Cat. 7 Copper Cable, Cat. 6A and Cat.6 Copper Jacks, Copper Patch Cords, Buffer Tube Fan-Out Kits, Buffered Fibre Telcordia](#)
- [FutureCom™ Copper Conducting Tape, 9 x 45 mm](#)
- [FutureCom™ Assembly Tool for Basic Jacks, and FutureCom™ Assembly Tool for xs500 and S1200 Copper Jacks](#)
- [UniCam® Connector High-Performance Installation Tool Kit, CamSplice™ Mechanical Splice Tool Kit](#)

#### New DNV GL copper cabling certification for Maritime applications

Corning has been awarded a certificate from DNV GL, a classification and consulting company for maritime industries, technical consultant for the oil and gas sector, and a worldwide leading certification institute.

The DNV-GL Type Approval Certificate for FutureCom™ S/FTP 550/23s 4P, 2x4P and S/FTP 1000/23s 4P, 2x4P Cables and S500 Copper Jack can be found to your right.



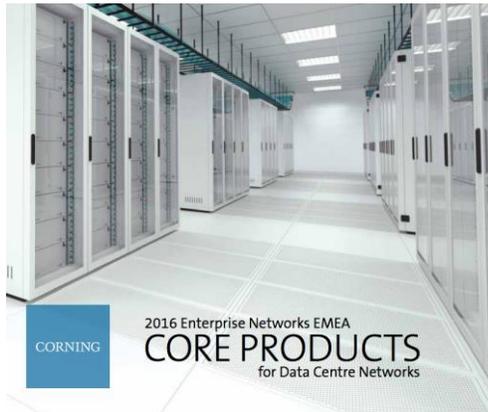
Download the FutureCom Certificate  
[Download FutureCom Certificate](#)

To view a more extensive list of certificates issued for our products, take a look at the [Certificates Centre](#) online.

## Data Centre Product and Content News

### Latest Data Centre Core Products List Now Available!

Our 2016 Data Centre Core Products Catalogue has been recently introduced with a new look and many new features.



Download the DC Core Catalogue & Product list

[Download DC Core Catalogue](#)

[Download DC Core Product List](#)

## Corning in the News

The BAT is a wall-mountable building distribution point that supports high-capacity cabling and delivers high-speed communications to users within a building. The product was awarded a special mention for outstanding product design from the German Design Awards 2017.

### Building access terminal success at the German design awards

The German design awards are given for outstanding achievements in the fields of product and communication design.

It is extremely rewarding to receive the distinction of a special mention for the building access terminal (BAT) from a highly esteemed, international jury that honours the commitment of Corning and our designers.

The product's technology represents an evolution in communications within buildings, marking a departure from congested ducts full of copper cables and the need to provide power to network devices.

An awards event will take place in February 2017 at the Ambiente tradeshow in Frankfurt, Germany.



The BAT is a wall-mountable building distribution point that supports high-capacity cabling infrastructures to deliver high-speed communications to users within a building.

The BAT is used in conjunction with passive optical LAN (POL) technology to replace traditional data network electronics and copper cables with passive optical splitters and fibre cables.

The BAT houses these splitters, and terminates and distributes the fibre connectivity through the building. This gigabit infrastructure provides services to users, rooms, and desks over a single building network. The unit can be

deployed in the basement and/or on each floor, depending on building layout and size.

Design quality is about continuously pleasing buyers and users of products and services:

- The modularity and flexibility of the BAT takes into account the varying requirements of different sized multi-story buildings.
- The wall-mountable BAT provides a clean and neat solution to address building aesthetics. Its slim, shallow design and rounded housing edges give it an unobtrusive appearance.
- It can be installed quickly and easily, with minimal disruption to businesses and residents.

These installation capabilities include:

- Safe and easy access to internal components during installation and MACs, where fibres can be installed or worked on securely and separately; keeping effects on other fibres to a minimum.
- Flexibility to accommodate splitters, splicing, and patching applications.
- Versatility to allow technology upgrades by simply replacing or adding components.
- Flexibility for different types of cable termination and optimised cable routing. Foam sealings provide an IP55 rating for dust and water protection.

For more information about the BAT, [visit our website](#).

### Top awards for innovative data centre cabling

Delivering sophisticated data and multimedia services demands maximum flexibility, scalability, and performance in the data centre. Optical fibre cabling solutions play a vital role.



Data centres use advanced optical cabling solutions

Our [EDGE8™ Solution](#) recently received the “Data Centre Cabling Product of the Year” award at the [2016 Data Centre Solutions Awards](#) in London, United Kingdom, and the top prize for “IT and Network Infrastructures” at the [German Data Centre Awards 2016](#) (Deutschen Rechenzentrumspreis), in Darmstadt, Germany.



German Data Centre Awards 2016 award finalists

Launched last year, EDGE8 is the industry's first modular, tip-to-tip optical cabling system for the data centre to feature an 8-fibre (base-8) cabling design that maximises per-rack-unit density for better network scalability and improved link performance.

Extensive discussions with all of the major transceiver, switch, server, and storage vendors led us to conclude that a base-8 solution would provide the best return on investment for 40 to 400G applications – transceiver independent without costly and disruptive upgrades.

Driven by increasing adoption of cloud computing and a growing demand for streaming video, data centres and SANs are migrating to faster transmission speeds to find and send data back to consumers as quickly as possible. The simple, flexible migration path to 40, 100, and even 400 gigabits per second that our EDGE8 solution enables has given data centre operators peace of mind that their networks are ready for tomorrow's transmission speeds.

These awards are another indication that our forward-looking, innovative approach is delivering tremendous value in the industry. Global adoption and industry awards during this first year validate our commitment to innovate infrastructures with favourable total costs of ownership for customers.