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Product Focus

Data Centre and SAN Cabling Infrastructure

EDGE8™ solutions paving the way for tomorrow's network today



[EDGE8™ solutions](#) continue to expand, not only with enhanced product offerings but also with new customers and markets that utilise the ultra-high density, flexibility, scalability, and modularity that EDGE provides.

Our EDGE8 solution has been deployed by customers around the world to address their needs today, solve technology challenges, and provide a migration path that easily scales to 400G transmission for tomorrow. These are not just early adopters or big technology companies, they are companies operating in healthcare, transportation, retail, and manufacturing sectors.

EDGE8 solutions are being deployed globally, keeping up with the high shipment volume of QSFP transceivers and the need for future adoption of higher speeds using parallel optics.

EDGE8 provides outstanding value in all areas of structured cabling:

- The 8-fibre MTP® connectors make it easy to match the fibre count in the backbone of data centre networks and SANs with today's base-8 QSFP transceivers. This results in 100 percent fibre utilisation, streamlined 1:1 port mapping, and up to 50 percent reduction in link attenuation through the elimination of conversion modules.
- Optimised harness mapping for large chassis switches and 24-, 32-, 36-, and 48-port blades using 8-fibre cable harnesses results in no unused fibre connections. These harnesses enable rapid deployment with a single cable when compared to multiple single patch cables.
- The use of pinned trunks allows for a single pinless patch cable deployment for all installations, reducing deployment complexity and patch cable inventory.
- Finally, all EDGE8 components deliver ultra-low-loss performance as standard, enabling users to exceed specified distances while dealing with the lower loss budgets that higher-speed applications demand. For example, a standard MTP-LC EDGE8 module has a loss of 0.35 dB, compared to 0.5 dB for standard MTP-LC EDGE modules.

One significant advantage being addressed is that of 40G disaggregation for use with 10G applications. Disaggregating 40G ports into 4 x 10G ports (currently only possible with parallel optics) through harnesses or port breakout modules provides significant density advantages both in terms of the attached electronics (and therefore costs) and the housings in the wiring areas. Over half of 40G QSFP ports shipped are being used to disaggregate and breakout to 4 x 10G ports.

- For example, using 40G instead of 10G QSFP line cards for 10G connectivity reduces overall cost per port for the electronics (two to three times a smaller footprint) and it means, that customers will already have the technology in place when they are ready to upgrade to 40G.

What's more, EDGE8 can be used and installed in an existing EDGE environment, in the same data centre, in the same rack, in the same housing, strengthening the cabling infrastructure.

If you are building a next generation high-bandwidth data centre, or upgrading for higher speeds and higher capacities, then find out about the latest optical cabling innovation for data centres and storage area networks — Corning's EDGE8 solutions.

Product Updates

LAN Product and Content News

New LAN Core Products Catalogue



The LAN Core Products Catalogue makes your job easier, faster, and more efficient.

[Our 2016 edition](#) has a new look, and includes many new features to address extensive feedback from you, our customers.

This includes more QR codes to easily link you to our online product solutions, download documentation, or stream videos.

Key changes, additions, and removals include:

- Corning SMF-28[®] Ultra fibre, which combines industry-leading low attenuation and enhanced bend performance, is the new standard for all single-mode based core products. We have also included FREEDM[®] tight-buffered dielectric armoured cable.
- Due to evolving technology and standards, we no longer consider OM2 fibre and ST connectivity as core products, so these products have been removed. The FutureCom™ F/FTP 750/23 Cat.7 copper cable has also been removed.
- For improved aesthetics, the new FutureCom flush-mount keystone copper panels replace our standard panels.
- To address regional requirements, the new shuttered 45 x 45 mm outlets (French style), one or two port options, have been added to the copper section of the catalogue.

Last but not least, we have also introduced the FastShip programme within the catalogue. A chequered flag next to a product part number denotes that it is available under the FastShip programme. These FastShip products will be available to ship within 72 hours from the date of Corning's purchase order confirmation.

[Download for the LAN Core Products Catalogue.](#)

To order printed copies of the catalogue, [please click here.](#)

EU Construction Products Regulation (CPR) New CE marking on cables starts in July 2016

The new European Union (EU) Construction Products Regulation (CPR) ensures that communication cables (fibre optic and copper) meet new safety standards and essential performance criteria, as well as the uniform assessment and testing methods. Products complying with the new regulation will have a new CE marking that indicates the cable is both rated according to the standard EN-13501-6 and conforms to the fire safety characteristics. This new CE marking starts on 1st July 2016, with a transition period of one year before it is a mandatory requirement.

[Download our CPR whitepaper](#) to find out more information on the standards and requirements as well as the classification of cables.

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

New Indoor/Outdoor Flame Retardant Oil-Resistant Cables

Corning's oil resistant loose tube cables with polyamide jacket are designed for indoor/outdoor use where resistance against hydrocarbons is required. They are ideal for use in oil and gas installations and alongside pipelines.

By using polyamide instead of a heavy lead sheath, these cables are easier to handle, prepare, and install. And with 100 percent halogen-free jacket materials, they are also less hazardous for personal health and the environment.

Take a look at the [features and benefits.](#)

For more information please visit our online catalogue using the following links: [Light duty cables](#) and [heavy duty cables](#).

Centrix™ Platform in a LAN Backbone Application



Corning's Centrix platform is a high-density, modular, and scalable fibre management solution, that can be used in LAN backbone applications where there is a large number of fibre connections. Airports, large campuses, or hospitals are examples. The system supports a modular "build-as-you-grow" approach, using cassettes and different types of housings or frames. The modular cassette contains up to either 24 SC or 36 LC connector adapters and can be tailored to include a splitter.

The sliding cassette with a drop-down handle provides simple and easy access to ports. A 1U housing will hold three cassettes, a 2U housing will hold six cassettes and a 4U will hold 12 cassettes. Housings can be ordered empty, loaded with cassettes for on-frame splicing, or as stubbed assemblies to reduce installation time and risk.

The innovative frame design provides optimised routing paths for patch cables, reducing the risk of pileup or entanglement. Daily moves, adds, and changes (MACs) can be easily accommodated while maintaining a structured and consistent patching methodology as requirements evolve. Patch cable management is greatly simplified with patching from any port to any port achieved through the use of a single 4-metre patch cable, which can be inserted or removed in less than two minutes. It has the capacity to support up to 2,880 LC duplex ports in a standard 7-foot (2200 mm) frame.

[For further information download our datasheet.](#)

Data Centre Product and Content News

New Data Centre Core Catalogue



The Data Centre Core Products Catalogue includes product details, information on newly released products, and a list of resources that can save you both time and money.

[Our 2016 edition](#) includes the new EDGE8™ solution, the next generation of high-density MTP pre-terminated data centre products.

EDGE8 Solutions Family Specification Sheet

The industry's first base-8 fibre cabling solution, EDGE8 provides a simple, efficient, and cost-effective migration to transmission speeds of up to 400 gigabits per second. EDGE8 is a high-density, modular cabling system that can be rapidly installed to form an end-to-end optical link between patching areas and equipment ports.

[Download the new EDGE8 solutions family specification sheet](#) for the latest information.

Winner of the German Data Centre Awards 2016



Corning Optical Communications triumphed at the German Data Centre Awards 2016, (Deutscher Datenzentrumspreis) winning the "IT and Network Infrastructure Award for its EDGE8™", the industry's first base-8 fibre cabling solution.

The gala event was held in Berlin in front of a packed audience of data centre professionals and fellow industry peers. The category shortlist included solutions from other technology companies, with the winner selected by a panel of experts.

EDGE8 provides a significant improvement over existing structured cabling solutions by providing a simple, efficient and cost-effective migration to higher transmission speeds of up to 400 gigabits per second. The solution is being deployed globally across multiple industry sectors due to the need for higher networking speeds, in-line with high volume of QSPF transceivers shipments.

EDGE8 was developed in close collaboration with our customers to solve tough challenges in the data centre. It also supports 40G port disaggregation, which provides a cost saving approach for 10G deployments now, while being future ready for 40G.

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An Interview with Paul Kritzinger, Datanet

Distributor of the Year 2015

We caught up with Paul Kritzinger, brand manager and data centre consultant at Datanet, who received Corning's 2015 Distributor of the Year award.

Tell us about Datanet. What do you do and what markets do you address?

Datanet is a division of Pinnacle Africa, a leading distributor of ICT solutions in Sub-Saharan Africa. Datanet focuses on ICT infrastructure products, which includes structured fibre optic cabling solutions. Corning is considered one of the premier brands in our distribution portfolio. Headquartered in Midrand, north of Johannesburg, the company distributes to a well-established sales channel throughout Southern Africa.

What do you see as the key benefits of working with Corning?

Corning provides us with excellent customer and technical support, and they have the best industry lead times. As a brand manager this makes me very fortunate, as these benefits leave my colleagues, who look after other brands, feeling envious. Above all, Corning makes it very easy for a distributor to work with them.

What does this award mean to you?

We are extremely happy to receive this award. We set out with the intention to try and win it from day one. The way it has been organised, using a points system is excellent. For a distributor it indicates the health of the brand. It enables you to see exactly where the brand is doing well and focus on activities and plans to improve other areas.

What did you enjoy at the recent distributor conference?

Corning is a very innovative company, so it's always exciting to hear about product developments and roadmaps. Of particular interest to us was hearing about the passive optical LAN (POL) solution in detail. The speakers and presentations were excellent, and the event was well organised. Corning got the balance right between the level of content and the fun element. I enjoyed it all, including seeing Lisbon.

Looking to the next 12 months, are there any activities or developments that will help drive growth?

We see opportunities for the POL solution in a number of market segments, and in particular the many heritage sites where there are specific challenges for cabling solutions. In addition, the adoption of 40G in the data centre market will bring opportunities for EDGE8, especially given the solution is future-ready for further increases in speed. Finally, we are looking to host a number of seminars and participate with Corning in data centre shows this year, to raise awareness, generate leads, nurture prospects, and support our resellers.

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Additional News

See The LightSM Training for Network of Preferred Installers (NPI)



New Training Portal and Training Calendar Announced

Whether you need formal training or are simply looking to grow your knowledge base, our **See the Light** fibre optic training offers something for everyone — professionals, installers, consultants, and students — involved in the enterprise networks environment.

The [new training portal](#) on Corning.com provides detailed information on all of our training programmes, including:

- **Webinars** — A wide variety of live and recorded webinars to help you stay current.
- **Seminars** — Hands-on seminars delivered in different locations across the EMEA region bring the latest technology to you.
- **E-Learning** — A unique collection of courses that gives you the flexibility and convenience to advance your career, skills, and knowledge.
- **Certified Training** — A comprehensive programme of industry-recognised, hands-on training.
- **Sign up for Updates** – To get the updates on our product and training information.
- **Resource Centre** – access a whole range of information to support your needs.

Our new [See the Light Training Calendar](#) provides a simple online booking platform for all our e-learning and seminar classroom training courses. This service is provided through our learning provider INLEA and handles registrations and payments.

Features include:

- Easy payment system via credit card, PayPal, Vpay, debit, or bank transfer.
- Easy to handle, single user registration or multi-user registration.
- Seamless communication to our new E-Learning Management System, providing 24/7 learning at your own pace and with reduced travel time and costs.
- Full integration with your NPI account and access to special offers for NPIs.

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Catch Corning

Meet us in person at tradeshow and events.

DataCentre Transformation 2016, Manchester
12th July - University of Manchester: <http://dtmanchester.com/>

Take a look at our event calendar online to see all the events we are attending. [Find out more.](#)

Watch our latest webinar recordings.

- [FastShip – Fibre Cable and Hardware in 72 hours](#)
- [Passive Optical LAN \(POL\) in Cooperation with Zhong](#)
- [EDGE[™] Solutions](#)
- [How to Obtain Relevant and Credible Fibre Test Results](#)
- [Copper Testing – Get It Right the First Time](#)
- [Fluke OTDR Testing](#)

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