REFERENCE PROJECTS

FHS ST. GALLEN: SOUND BASIS FOR A LONG LIFE CYCLE

GENERIC CABLELING SYSTEM SOLUTION FOR GROB IN CHINA

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Dear Readers

"Datwyler Cabling Solutions is an internationally operating leading supplier of premium quality products, system solutions and services for electrical and ICT infrastructures in single-purpose buildings and data centres as well as for Fibre to the home (FTTH) networks". That's what it says word for word on our attractive, brand new Internet homepage www.cabling.datwyler.com. But how can I plausibly explain our field of business to a non-technician? Well, maybe like this: every human being has a sensitive, intricately branched nervous system which controls each of his actions and movements. Our brain, which in technical jargon could also be called the "data centre", controls the system as a whole. Structured building cabling, which in addition to pure communication performs jobs such as climate regulation, access control, lighting and roller shutter control, is in fact equivalent in function to our nervous system, controlled from the centre and extending to the peripheral areas, or, when translated to human beings, to the tips of the fingers and toes.

It is common knowledge that older people often suffer from calcified arteries. The blood is no longer able to flow as freely as it should due to narrowing of the blood vessels. Exactly the same thing happens with inadequate building cabling, which finds it almost impossible to cope with the rapidly increasing flood of data. In each case – in humans as in technology – the outcome is fatal. However, whereas a calcified arterial system can hardly be restored to its original condition, the remedy is relatively simple in technology: specialists from Datwyler Cabling Solutions are happy to deal with possible data bottlenecks and will help you upgrade the efficiency and performance of your data centres and networks so that your actual business can carry on without a hitch. It doesn’t matter whether "calcification" has occurred in Switzerland, another European country, the Middle East or Asia. We always have specialists close to you. Not only will they provide the requisite know-how and faultless service, but will also suggest cutting-edge technical solutions using the most appropriate Datwyler products and systems.

Please take a look at the current reference projects in this issue of "Panorama" to see the international presence and expertise of Datwyler Cabling Solutions for yourself. Your nervous system will back you up effectively while you read …

I hope you enjoy reading our magazine.

Datwyler Cabling Solutions

Johannes Müller
CEO
The FHS is a fast-growing university of applied sciences which now has around 3000 students. It sees itself as "a place where big ideas are born and nourished". This is especially true of the central FHS block by the station. With around 15,000 square metres of floor space and an investment volume of well over 100 million Swiss francs, the University Centre is one of the largest new public buildings in eastern Switzerland.

**Long service life**

The university's teaching, research and services are enjoying the benefits of the new building, not least the cutting edge technology. This includes universal communications cabling (UCC) with extremely high performance components.

"My experience over the past 25 years has always been that a good foundation is essential for long service life," explained Harald Pintarelli, Building Technology Facility Services at FHS. "With a view to the defined life cycle, which is between 25 and 30 years for the whole building, and a high level of investment protection, the Cantonal Building Department invited tenders for a Class FA universal communications cabling system providing a standardised bandwidth of 1000 megahertz."

A solution from Datwyler Cabling Solutions was selected. On the floors this comprises symmetrical CU 7150 4P copper data cable and type PS-GG45 connectors. Cables and connecting technology conform to Category 7a up to 1000 megahertz. They even support a maximum bandwidth of 1500 MHz, so provide extremely high reserve capacity for multimedia and future applications beyond 10 gigabit Ethernet.

**Copper and fibre optic technology installation**

Between January and December 2012 the tele-matics specialists at Huber+Monsch AG in St. Gallen installed around 125 kilometres of Datwyler copper data cable and 4400 modules. At the user end the connections were built into dado trunking, surface-mounted sockets or FLF floor boxes. On the floors of the building the horizontal cabling terminates at 120 patch panels. For the backbone into the data centre the installers used approximately four kilometres of type FO Universal OM3 fibre optic cable with 24 and 48 fibres. Datwyler also supplied a variety of safety cables, for example for the power supply to the smoke and heat extraction system and the fire service lift.

The new communications network, which has been in operation since January 2013, not only provides the FHS with high-speed data transmis-
sion, but also incorporates the IP telephones, audio systems, video beamers and WLAN. The WLAN access points take the power they need via the data cables (PoE, Power over Ethernet).

Trouble-free operation
The FHS is very satisfied with the UCC system. “The high quality specifications were all met,” says Harald Pintarelli. “This applies to the materials used as well as to the careful routing, connection and measurement. In this respect the new network has been running without a single hitch right from the start.”

Today extremely high-performance connections are available to users across the board. As the PS-GG45 modules are “downwardly compatible” with RJ45 connectors, they can connect all their devices with the current connectors.

Since August 2012 Swisscom has been building one of Europe’s most modern and most efficient data centres in the Berne Wankdorf Business Park at a cost of around 100 million Swiss francs. It is scheduled to start operation in 2014. In the spring of 2013 Swisscom IT Services evaluated a comprehensive, premium quality cabling solution for the high speed fibre optic links in the new data centre. The technical values required were of the highest level, and the Datwyler Data Centre Solution was selected. All the fibre optic links are made with pre-assembled cables and components from Datwyler. Top-performance type OM4 multimode fibres and type OS2 single-mode fibres are being used.

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DATA CENTRE SOLUTION
FOR NEW SWISSCOM
DATA CENTRE
The new building links the historic site to an existing extension building.

**REFERENCE PROJECTS**

**FUTURE-PROOF COMMUNICATIONS NETWORK FOR ASSOCIATION OF EVANGELICAL CHURCHES IN COLOGNE**

From May 2012 to August 2013 a new social welfare and administration building was constructed on the site belonging to the Cologne and Region Association of Evangelical Churches. Datwyler installed a Class \( F_A \) structured cabling system.

Datwyler won the contract for turnkey implementation. In close cooperation with the Evangelical Association of Churches and ASG, Datwyler Cables GmbH and its service partner, KKS Kölner Kommunikations Systeme GmbH, completed the job by August 2013, right on time for the staff to move in as planned.

Integration into the existing network
In accordance with the client’s requirements a central plant room is now used to integrate the information and communication technology into the existing network of the Cologne and Region Association of Evangelical Churches. To achieve this Datwyler connected the server room in the basement of the new building with fibre optic and telecommunication lines to the Church Association’s main server room in the old building. All the new workstations in the three storey building are linked up by Category 7 copper cables. These were routed to the workstations direct from a network rack in the plant room, i.e. without sub-distributors. A total of 108 flexibly usable floor boxes provide the staff with their data outlets.

In the new building Datwyler installed altogether 21 kilometres of Datwyler CU 7150 4P copper data cable and around 500 PS-GG45 modules. In the server rack six HP ProCurve switches provide high-speed connections to the main server.

ASG was thus opting for a premium quality system with enough bandwidth (1000 megahertz) to provide long-term future viability. At the same time systems for temperature and fire monitoring and access control for the central plant room in the basement were included in the tender for safety reasons.

The new building in Kartäusergasse, designed as a fully accessible and energy efficient 2-litre house, links the historic site to an existing extension building. Today it accommodates around 50 staff employed by the Evangelical social welfare organisation Diakonisches Werk – from management through the specialist migration service to debt and addiction counselling – as well as the Antoniter Siedlungsgesellschaft mbH (ASG), the administrative body for the Association and the church districts.

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In the new building Datwyler installed altogether 21 kilometres of Datwyler CU 7150 4P copper data cable and around 500 PS-GG45 modules. In the server rack six HP ProCurve switches provide high-speed connections to the main server.
A Mitsubishi inverter split air conditioning unit keeps the plant room temperature constant at the requisite 22 degrees centigrade.

**Expert advice**

ASG reports that installation and commissioning went without a single hitch, and that the new network is operating faultlessly. Throughout the whole process the local Datwyler staff were on hand to give expert advice to planners and site management.

Therefore the user is very satisfied with every aspect of the solution implemented and plans to use it again when carrying out future building and modernisation work.

The renovation and expansion of Zell am See Hospital in Salzburg (Austria) began in late 2011. The new ward opened in November 2013. The communications network and safety cabling consist largely of Datwyler solutions. The 10 gigabit-compatible data network is based on around 90 kilometres of type CU 7702 copper data cable (4P and 2x4P) and approximately 5000 Category 6, RJ45 modules. It also incorporates the telephone and nurse call system, IP television and the Internet (wired and wireless).

Elin GmbH & Co KG of Salzburg used Datwyler fire safety cables with system circuit integrity as well as Datwyler support and mounting systems for the power supply, CSSD, emergency lighting, the smoke and heat ventilation system and the emergency diesel generator. Datwyler products were also used to renovate the existing riser shafts in the old building of the hospital.

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**REFERENCE PROJECTS**

**DATWYLER SYSTEMS INSTALLED IN SALZBURG HOSPITAL**
The Scandic Continental hotel, originally named the Inter-Continental when it opened its doors in 1972, is a true classic among the hotels in the Finnish metropolis. With its seven floors and 514 rooms it is one of the largest hotels in Finland.

The hotel is undergoing extensive renovation, which started in early 2013 and extends to all rooms. Scandic Continental’s partner in this renovation project is Consti, a company specialising in bringing value-adding change to hotels and restaurants. At the end of 2014, following the upgrade, the hotel building will provide its customers with a modern and pleasant guest experience.

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The most reliable system solution on the market
As part of the project all the hotel’s technical systems will be renewed and the entire data communication system will also be modernised. This means that over 100 kilometres of data cable will run along the corridors at the end of 2014. It will be a competitive advantage for the hotel, which accommodates hundreds of business travellers each month.

REFERENCE PROJECTS
SCANDIC CONTINENTAL HOTEL IN HELSINKI: MODERN DATA TECHNOLOGY FOR A “CLASSIC”

A shielded, 10 gigabit-compatible Datwyler data network is being installed in the Scandic Continental hotel.
Consti Talotekniikka Oy is responsible for the renovation project, and Johtomestarit Oy is a subcontractor constructing the data network. The professionals in these two companies chose the Datwyler system solution supplied by Pistesarjat Oy, which in Finland represents the best data cable systems in the world.

The Scandic Continental hotel will soon have a shielded, 10 gigabit Category 6A data cable system. This is the fastest copper system on the market and ten times faster than the previous system.

“We chose Datwyler’s shielded 10-Gigabit Cat.6A cabling system because of its high quality and the 25-year system warranty. The quality extends from individual components – cables and connectors – to the entire system,” says Risto Ruhanen, Johtomiehet Oy’s Project Manager responsible for the hotel’s structured cabling project.

“The advantages of Datwyler’s cables include their mechanical properties and durability, as well as high bend performance and good stripping properties,” adds installer and site team leader Ville Luostarinen.

**Hotel system is ahead of its time**
Modern hotel systems must not only be of high quality and should stand the test of time, but they should also preferably be ahead of their time. The basis of the systems supplied by Pistesarjat is the 25-year system warranty.

But this is not the least of the reasons why this Datwyler system was chosen for the Scandic Continental. Another advantage of this solution is that it is easy to install. This important issue is emphasised in the case of extensive systems. Since there are hundreds of connection points, just like in the Scandic Continental, installation must be straightforward and the different steps – cable routing, connecting, equipment installation, measurements and documentation – should follow each other smoothly.

**A positive experience**
In the middle of the cabling project the long hotel corridors looked as if they were the set of a sci-fi movie: no extraneous items could be seen and everything was brilliant white, except for the cable bundles running neatly in the upper corner of the wall. Since then the renovation project has proceeded quickly and as scheduled on all floors of the hotel.

“Project has gone extremely well and we are very satisfied with the cooperation with our partners,” concludes Consti Taloteknikka’s Olli Heinonen.

**REFERENCE PROJECTS**

**BERNE UNIVERSITY GETS A 40G GRID COMPUTING CABLE SYSTEM**

In the summer of 2013 Berne University opened a new institute building in the vonRoll University Centre. The newly created data centre in the basement forms the hub and backbone of the IT infrastructure, and here the concept of grid computing was implemented – an alternative to high-performance computers and supercomputers which connects switches and computers with 10 gigabit and 40 gigabit links. The cabling selected by those in charge was the Datwyler Data Centre Solution. All the equipment racks are connected up from a wire centre by pre-assembled MTP mini-breakout cables using top-performance type OM4 multimode fibres and type OS2 single-mode fibres.

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Grob Group, incorporated in 1926, is an internationally operating family company with its headquarters in Mindelheim, Germany. Grob Machine Tools, located in Dalian in the northeast of China, is the group’s fourth largest production facility in the world after its headquarters in Germany, the São Paulo (Brazil) and the Bluffton (USA) sites.

Grob’s Dalian facility is located in the city’s central industrial zone, Jinzhou New Area, and covers an area of 60,000 square meters, including an office tower and a production workshop of 12,000 square meters. In addition, there is another construction project on its way which is scheduled for completion by the end of 2014 and will double the production area.

Grob is mainly engaged in the design and manufacture of high-speed, high-precision 5-axis universal machining centres and high-quality, innovative machine tools for the entire machine manufacturing industry. Operating in China since 2003, Grob, with its two subsidiaries and the production site in Dalian, supplies some 50 per cent of the Chinese automotive industry, which means that it is emerging as a prestigious supplier of machine tools in the People’s Republic.

Some car manufacturers like BMW and VW are customers of both Grob and Datwyler. Datwyler’s future-oriented enterprise philosophy coincides with Grob’s commitment to ensuring value creation and sustainability for customers and their employees.

Swiss Quality solution
The first phase of the cabling project at Grob’s Dalian facility covers 1,500 Category 7 data outlets including those in the workshop, offices, and data centre. In consideration of the high-performance communications network requirements for machine tool manufacturing and the office, a “Swiss Quality” generic cabling system solution from Datwyler was selected to guarantee excellent transmission safety, reliability and abundant redundancy. Installation ran until September 2011 and included over 80 kilometres of high-performance Category 7 data cables. Good cable shielding protects the cabling system effectively against various types of interference, ensuring safe, fault-free data transmission.

Datwyler not only provides high-quality products and system solutions for customers, but also furnishes improved engineering and technical service support. To ensure the high-standard construction requirements of this project, Datwyler’s technical engineers conducted technical training courses on the second phase for system integration suppliers in March 2013, thus enhancing the professional level of the installation. The Datwyler team also paid great attention to the progress of the installation itself.

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GROB Machine Tools (Dalian) Co., Ltd. selected a sustainable Datwyler generic cabling system solution which is characterized by the highest quality, performance, durability and transmission reliability.
In addition to Datwyler’s distribution and technology partners in individual countries the Solution Partners rank among the most important partners. These qualified, certified local installation companies and system integrators ensure that end customers everywhere receive an expert, efficient, reliable, and in every respect first-class service at all times.

Added value for end customers
End customers profit from an experienced on-the-spot partner with an intimate knowledge of Datwyler products who can turn all the benefits of tried and tested system solutions to the customer’s advantage: top product quality, sophisticated, integrated system solutions proven to work in practice, and innovations which allow costly working steps to be avoided or even eliminated altogether. On request Datwyler also provides pre-assembled product solutions which are tailor made, individually printed, measured ex factory and inclusive of support and logistics services – always with the requisite certificates and test reports. Solution Partners can pass this added value on to end customers.

Installation companies and system integrators trained and certified by Datwyler can guarantee end customers customised solutions for every project, the use of defined products and optimum installation quality. At the same time customers can be assured that all the requisite product and quality standards have been met.

The Datwyler teams give local Solution Partners active support in every phase of implementation, during which the end customer’s wishes, ideas and objectives are also their prime concern at all times. Even when a job is completed Datwyler will always, if requested, make itself available in an active or advisory capacity to end customers and partners alike.

Long-term system warranty
Certified Solution Partners can offer end customers a 25 year system warranty for qualifying Datwyler copper and fibre optic networks.

More information on Datwyler’s partner program can be obtained from any Datwyler office and from the "Partner" menu at Datwyler’s new website www.cabling.datwyler.com.
The new European Construction Products Regulation (CPR) No. 305/2011 has been applicable since 24 April 2011. This Regulation classifies power, control and communication cables as construction products in fire safety engineering terms on a European level for the first time. The fire behaviour of cables was previously rated almost exclusively in accordance with IEC/EN 60332, IEC/EN 61034, IEC 60754 and EN 50267, but these tests are not comparable with those of the CPR.

The Construction Products Regulation classification table covers six classes from A to F. These are allocated on the basis of heat release and flame propagation criteria. There are three supplementary classes for each of the additional requirements such as smoke formation, acidity and flaming droplets or particles.

Substantial elements of the new CPR came into force on 1 July 2013. Manufacturers and users of building products had a transition period of more than two years to implement the changes covered by the Regulation. These changes also include the obligation of manufacturers to issue a Declaration of Performance for each product stating, among other things, the levels or classes for rating safety in case of fire for buildings.

EN Standards are yet not applicable
In the case of power, control and communication cables, however, these Declarations of Performance cannot be implemented by the deadline, the reason being that the corresponding EN Standards are not yet put into effect.

The first of these Standards is EN 50575 “Power, control and communication cables – Cables for general applications in construction works subject to fire requirements”. The second relevant Standard is the draft of EN 13501-6 “Fire classification of construction products and building elements – Part 6: Classification using data from reaction to fire tests on electric cables”.

Implementation of the Declarations of Performance required by the new CPR will not be possible within the next few months either, because the testing and certification bodies appointed by the European Union member states cannot be accredited until the aforementioned EN 50575 has been introduced. Repeated objections to this draft Standard have meant that its implementation keeps being delayed. At best the Standard could be approved by the middle of 2014.
Even further off is draft Standard prEN 50577 "Electric cables – Fire resistance test for unprotected electric cables (P classification)". Under this Standard the system circuit integrity of safety cable required to be fire resistant in the event of fire is rated for a 120 minute test period for the first time by an EN Standard. The classification of electric cables is effected in steps: P15, P30, P60, P90 and P120 (number = minutes). Under present circumstances publication of the requisite Standard cannot be expected before 2015.

Orientation guide

Decision makers and planners currently find themselves in a quandary. On the one hand the new CPR enabling them to assess the fire behaviour of power, control and communication cables came into force on 1st July; on the other hand the manufacturers are still unable to make any authoritative statements on the classification of their cables.

Datwyler is therefore providing those responsible with a White Paper. This will at least act as an aid to provisions in force so far and future requirements. Comparisons make it possible for everyone to decide for themselves what products they will or should use in the transition phase – until the new Standards are applicable.

Good outlook for data cables

In the case of copper data cables which show only minor variations in design, the outlook for new classification is really good as things stand at present. Particularly in data centres the cable industry, property insurers and IEC 60364-4-42:2010 already stipulate special fire safety requirements for the cables used.

Own investigations show that most of Datwyler’s CU data cable designs in the plastic insulated cables sector achieve the best possible classification.

We are glad to assist you

The White Paper – and all its national variants – can be obtained from the “Downloads” menu at Datwyler’s new website www.cabling.datwyler.com.

MARKET

FVC SIGNED DISTRIBUTION AGREEMENT WITH DATWYLER

FVC, a leading Value Added Distributor in the Middle East & North Africa (MENA), has signed a distribution agreement with Datwyler. The agreement covers Datwyler’s complete range of copper and fibre optic data networking solutions for indoor and outdoor applications across Saudi Arabia, Qatar, the United Arab Emirates (UAE), Oman, Kuwait, Yemen, Iraq and Pakistan, with plans to expand into other countries across the MENA region.

"We have seen an increasing demand from our partners and their customers for infrastructure networking, and Datwyler and its quality products are a perfect fit for our portfolio of advanced networking data centre solutions," said K. S. Parag, Founder and Managing Director of FVC.

Datwyler is known for providing professional services in the data center field, which include design, engineering, consultancy, project management, life cycle management and assessment services.

As part of the agreement, Datwyler is supporting FVC and its partners with training and knowledge required to drive the business in the region.
MARKET

SUCCESSFUL SERIES OF SEMINARS IN SOUTHEAST ASIA

Datwyler has been holding customer seminars in Indonesia, Malaysia, Singapore and Vietnam to keep end users and system integrators in Southeast Asia updated on current technical developments in data centres.

The data centre seminar in Ho Chi Minh City in May 2013 was the last port of call in the Datwyler series of seminars – and an example of the lively interest generated by these informative events. Around 80 participants gathered at the Legend Hotel to learn more about Datwyler’s complete data centre solutions and services, including company representatives from FPT, HiPT, HPT, ISP (Sao Bac Dau), REE, Serifico and Kurihara as well as from Sacombank, ACB and South Asia Bank.

For some time now Datwyler has been active in Vietnam, offering its customers high-quality system solutions for both structured building cabling and data centres. Datwyler was the first manufacturer in the world with flame retardant (FR) solutions. The range encompasses copper systems with Category 5e to 7, components as well as fibre optic systems for single-purpose buildings and data centres.

The installation of a modern LAN copper and fibre optic cabling system giving users high bandwidths produces substantial savings in the long term. In view of rapid technical development in the network field a system solution from Datwyler allowing a transmission rate of 10 gigabit per second and over is a sound investment in the future.

With its range of data centre solutions and many years of practical experience in this field, Datwyler helps customers set up efficient, reliable data centres which comply with the most stringent international standards. For the construction of complete data centres Datwyler offers a broad product portfolio extending far beyond the field of IT infrastructure, and on request will provide comprehensive services ranging from planning through project management to audits and certification.

MARKET

THREE NEW PARTNERS IN THE DATA CENTRE FIELD

Datwyler Middle East is expanding its range of integrated data centre solutions with solutions from BTI, Global Insulation and Wagner.
MARKET

ULTIMATE ACCOLADE FROM THE CHINESE DATA CENTRE INDUSTRY

A first for Datwyler – the Chinese "Preferred Brand" award for data centre cabling.

The 6th Data Centre Conference was held in the Nikko New Century Hotel in Peking on 18th April 2013. Over 1000 managers from every relevant sector attended the conference, which was marked by a high level of content, up-to-date topics, knowledgeable staff, professionalism and lively contributions. Henry Wang, North China Manager, and Lisa Cheng, Sales Manager in Peking, attended on behalf of Datwyler.

Under the title of "Reshaping the Data Center with Software" the conference held a main morning forum and three afternoon subforums on the subjects of efficient data centres and energy saving, cloud data centre construction, operation and maintenance and integrated data centre solutions. In-depth discussions were held on issues such as the latest data centre trends in the cloud computing era, efficient deployment of data centres and data centre operation, maintenance and management.

As part of the conference the Organising Committee awarded prizes to selected companies. Datwyler won the award for "Preferred Brand in the Data Center Cabling Industry 2013". Henry Wang accepted the trophy for Datwyler in China. This award shows that the Swiss company, with nearly 100 years of experience under its belt, is highly regarded by the Chinese market and by the Chinese data centre industry. Datwyler sees the award as an incentive to continue helping set up data centres with first-class technology.

Datwyler successfully operates in the Middle East region as a solution partner for high-quality integrated data centre solutions. In doing so, Datwyler is committed to close cooperation with leading vendors of data centre infrastructure systems.

The new partnership with BTI Computer Systems (UK) Ltd. enables Datwyler Middle East to provide its customers with a complete range of economical, intelligent and customisable monitoring solutions which cover the whole spectrum of controls: those of environmental conditions, power consumption, IP cameras and system operation.

Datwyler’s partner Global Insulation Logistics Ltd. is a worldwide operating specialist in the construction of isolated structures. The company provides composite panel systems and a door system that can be used for the rapid construction of insulated or fire rated IT rooms.

The cooperation with Wagner Middle East FZE gives mutual customers in this region access to globally leading integral fire safety solutions which are certified and can be configured individually to suit specific applications.

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MARKET

LOOKING BACK ON INELTEC 2013 IN BASEL

The key measure of success for a trade fair is visitor numbers. The ineltec trade fair, held in Basel in mid-September 2013, once again met all expectations in this respect.

With several hundred daily visitors to its stand – considerably more than in 2011 – and a lot of exciting discussions with business associates and other interested parties, Datwyler Cabling Solutions is able to report really positive results from ineltec 2013.

All the information on safety cable systems, new regulations and correct implementation was in great demand. In this context Datwyler gave visitors a lively overview of current and future installation variants for cable systems with system circuit integrity.

The exhibit on data cabling, which featured the complete range of products Datwyler manufactures, also attracted special interest. One of the items on display was the first Category 8.2 cable, which will be used as a high-end data cable in “tomorrow’s data centres”.

Another attention-getter was the presentation of the “Datwyler Data Centre Solution”. The design flexibility, high quality and future viability of this space-saving solution was showcased in a separate section.

The feedback from visitors to our exhibition stand, among them representatives from banks and insurance companies, power companies, installers and electrical planners, has been extremely positive to date.

MARKET

HIGH-TECH AND SWISS CHOCOLATE: GITEX IN DUBAI

Datwyler has already exhibited at Gitex on repeated occasions, most recently in late October 2013. The idea behind this trade fair appearance – “to create a visible link between Arab culture and Swissness” – worked out well. The visitors took enthusiastically to the Swiss products and solutions, not to speak of the chocolate. In the data centre sphere the spectrum of exhibits ranged from stationary modular data centre technologies through modern fire prevention solutions to the latest raised floor cooling systems.

A lively interest was also shown in Datwyler system solutions for structured premises cabling and the comprehensive services on offer, ranging from consultancy through system design to the turnkey implementation of cabling projects.

A direct comparison of Datwyler’s participation in Gitex with ineltec in Basel reveals one striking fact: at the Swiss trade fair most of the visitors to the stand were coming into contact with a familiar long-established solution provider, whereas here at Gitex a large number of visitors were generally still on the lookout for a business partner. So by and large the first is a more mature, more saturated market, while here we have a growth market with an incredible amount of potential.

It is to be expected that the excellent response from visitors to the stand and the numerous new customer contacts will continue to strengthen Datwyler’s market position in the Middle East. No doubt this will be helped by the successful joint venture with the value-added distributor FVC, in existence since May 2013 and also very favourably received at Gitex. This close collaboration extends across altogether eight countries in the Gulf region.

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The “Datwyler Data Centre Solution” is a future-proof pre-assembled plug-and-go fibre optic solution specially developed for high-density requirements in data centres. It is characterised by very high quality cables and components and ultra-precise connector assembly. Owing to its excellent optical and geometric values the cabling system is ideal not only for current applications, but also for future high-speed applications such as 32GFC, 40/100G Ethernet and 120G InfiniBand. In addition its modular components can be used in any combination, giving users an exceptional degree of design flexibility.

The new plug-in module which Datwyler will be bringing to market in the coming weeks is no longer made from anodised aluminium but from robust black plastic. On both sides of the LC quads there are labelling strips for customer-specific printing.

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Core components of the system, which enjoys a fast growing installed base, are the fully equipped plug-in modules for Datwyler’s 3U or 4U module racks and 1U panels. At the rear these have two MTP couplers (Type A) to take two pre-assembled MTP trunk cables which are routed via internal low-loss fanouts to the front panels with six LC quads – equivalent to 12 LC duplex ports. Maximum packing densities can be achieved in data centres with the high-quality pre-assembled plug-in modules which are available for OM3, OM4 and OS2 and provide the best optical performance values (IL/RL). On 3U, for example, up to 288 fibres are possible with LCD connections or up to 1152 fibres with MTP adapters.

Optically and technically upgraded

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Datwyler has also given the plug-in module a technical upgrade: inside the housing of the new model – invisible to the user – there is a new cable management system to ensure more stable internal fibre control.

The plug-in module, for which Datwyler already has two patents pending, can also be supplied with two splice cassettes for altogether 24 fibres. This version replaces the previous plug-in splice module, which only gave users one (and longer) 12-fibre splice cassette.

The portfolio will continue to be perfected and expanded on this basis in future. For instance, the MTP front panels, which are fitted with two, four or eight MTP adapters, will in future also be available in the new design, i.e. in black.

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The new international Standards for Category 8 copper cable and balanced cabling systems for 40 Gbit/s are currently being developed as Draft Standards IEC 46C/976/NP and ISO/IEC TR 11801-99-1. Unlike the proposed Standards for symmetrical Category 8 data cables discussed just a few years ago their sole use foreseen by today’s international standardisation bodies is in data centres with a maximum limiting frequency of 2 GHz.

Standard ISO/IEC TR 11801-99-1 defines a point-to-point connection between active devices at a maximum distance of 30 metres, comprising 26 metres of installation cable and 2 metres of patch cable on either side. With the advent of 40G servers in data centres a cost-effective server-to-switch cabling link via twisted-pair cables is required. The maximum distance of 30 metres removes the existing length restriction of twinax cables (7 metres), bringing design freedom and flexibility. Using 40GBASE-T the 40G servers can be cabled with one and the same solution for EoR (End of Row), MoR (Middle of Row) or ToR (Top of Rack) architectures.

Datwyler recently introduced “CU 8203 4P”, a first compact S/FTP AWG23 cable which complies fully with the anticipated requirements of the new Category 8.2 as specified in the ISO/IEC draft. The “CU 8202 4P” AWG22 cable and the “CU 8206 4P flex” patch cable (AWG26) are on Datwyler’s agenda for 2014. New developments with F/FTP as well as the appropriate patch cables (flex cable) will follow. Datwyler lays particular emphasis on the fact that with regard to attenuation (NEXT, PS-NEXT) the new cables provide a large amount of spare capacity at the limit values discussed and defined. The precise parameters for the Channel specifications will be drawn up over the next few months. Many issues are still unresolved, particularly in relation to future connecting technology and the transmission method. Datwyler will be happy to advise customers on any questions they may have on this subject and will ensure that even the latest products and solutions comply in full with the standards officially released in future.

Datwyler recently introduced a first compact Category 8 data cable which facilitates the cost-effective cabling of 40G servers in data centres. More of these cables will follow in 2014.

INNOVATION

CATEGORY 8 CABLES FOR DATA CENTRES

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Welcome to Datwyler

Our new website has been on line since 19th November 2013. This means that for the first time Datwyler Cabling Solutions now has a uniform global internet presence. The new website provides easy, customer-friendly navigation and professional search functions. One of its central features is on-demand access to data sheets, which are always right up to date.

The new website is initially available in English and German. It is planned to extend the language selection by Chinese and Arabic and to set up a webshop function for the most important products in 2014.

www.cabling.datwyler.com

New FTTH Catalogue

The new edition of Datwyler’s catalogue entitled “Fibre to the home – Cutting-edge complete solutions for superfast fibre-optic broadband networks” will be available from January 2014. The 100 page catalogue features Datwyler’s current range of solutions for central offices (POPs), outdoor cabling and in-house cabling. The new edition of the catalogue will be available in German and English. All Datwyler branches will gladly take advance orders.

Light+Building 2014

Light+Building will once again be held at the Frankfurt Exhibition Complex from 30th March to 4th April 2014. The world trade fair for architecture and technology will be attended by the representatives of manufacturers from 50 countries, including all the market leaders with their innovations in lighting, electrical engineering, home and building automation and construction industry software. Datwyler will also be manning its own stand at Light+Building.