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Dieter Rieken (dr), Stefanie Schoene (sts), Sonya Eisenegger Authors: Wendelin Achermann (wa), Pius Albisser (pa), Brandon Chen (bc),

Carmela Letschert

Chen Chen (cc), Martin Echser (me), Glenn Go (gg), Senjaya Halim (sh), Paul Hunter (ph), Ahmed Krayem (ak), Suresh Kumar (sk), Beat Schertenleib (bs), Max Schwaiger (ms), Shaheer Shaaban (shs), Asem Shadid (as), Susan Zeng (sz), Daniel Yu (dy)

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EDITORIAL

Playing a waiting game IS NO OPTION

Dear Readers,

Big Data, Cloud Computing, Blockchain, Bitcoins, Artificial Intelligence, IoT (Internet of Things), Virtual and Augmented Reality, eSIM, Pop-up-Stores... The world is changing at an unprecedented rate, and we're in on it – or sadly not (quite) yet.

Disruptive technologies and business models pose a challenge to many things which have seen us through for decades, which have generally worked well and to which we have therefore become attached. But constant change makes no allowance for that. Shopping centres are turning into oases for new experiences, meetings and indulgence, while famous fashion houses and multimedia discounters go bankrupt. So you will soon no longer be able to find Christmas presents for the children at Toys"R"Us, because the retail chain - like many others - has not reacted quickly enough to the changes.

Traditionally we don't like giving up things which have stood us in good stead, especially if the new development seems complicated or even incomprehensible. It is a great temptation to stick to the old ways as long as they work. Just avoid making mistakes, wait and see what others do, and observe their initial mistakes with a hint of malicious pleasure. "I did tell you it would go wrong," is heard in many places nowadays, even in the boardrooms of reputable companies.

Are these changes only something for the young generation? Does this mean that it is up to them to get to grips with the new technologies? In my view this is a fatal attitude. On the contrary, this calls for immediate action by those of us in charge today. It is our job to integrate the new possibilities into innovative concepts, thereby creating a sustainable basis for the young generation, our children and grandchildren. For experience has shown that each new project which we launch today will take years to gain market acceptance - i.e. at a time when the world will look quite different again. So "playing the waiting game" should not be an option for us.

Datwyler Cabling Solutions has resolved to take a systematic proactive and positive approach to new technologies, so that our products, solutions and services are on the cutting edge and protect your investment at all times. As ever, quality, efficiency, cost and sustainability are the key criteria governing our thoughts and actions.

We are tackling this process together with you, our esteemed customers and business partners. We are ready to learn from you and with you, and look forward to collaborating with you in doing our best and providing new peaks of performance.



Johannes Müller CEO



Abraj Quarter, Doha

High-performance network for the "PEARL GATEWAY"

In the Abraj Quarter, currently being created on the approach to the Qatari island known as "The Pearl", large numbers of buildings are being cabled with a project-specific solution from Datwyler.

"The Pearl", located near the Qatari capital Doha, is an artificial island of approximately 400 hectares, 300 metres off the emirate's east coast. Once all the construction projects are complete, it will provide space for 30,000 people. The intention is that, once completed, the Abraj Quarter, which will be dominated by seven high-rise buildings, will form the "gateway" to the island.

For the data network in the residential and business premises of the Abraj Quarter the

project developers wanted a reliable, highgrade and cost-effective structured cabling system which was simple to install. An endto-end cabling infrastructure from Datwyler was selected so that future residents, companies and traders could be offered a highperformance network and high-speed connections.

Project-specific solutions

The project encompasses high-rise buildings numbers 3 to 6, each of 42 storeys,







together with 30 villas, 130 townhouses and around 2500 parking spaces on a usable floor space of 60,000 square metres. This is Datwyler's biggest project in the region to date.

Cleopatra Technology W.L.L., a Datwyler Solution Partner based in Doha, had suggested the Datwyler cabling solution to the project developer. It was awarded the contract not only because it met all the requirements specified. Other important aspects were the G.657.A2 fibres, which conformed exactly to the local internet service provider's specifications, as well as Datwyler's project-specific cabinet solutions and their methodical services.

The end-to-end system solution comprises 500 kilometres of low-smoke, halogen-free copper data cable and 28,000 Category 6 RJ45 modules as well as 18,000 single and double data outlets. The fibre optic backbone encompasses

125 kilometres of single-mode cable with up to 48 fibres, patch panels, patch cables and accessories.

As well as this there are 1500 slimline wall cabinets and over 100 server racks with a variety of cable management accessories.

All the material was delivered between May and October 2017. (sk)

5

Ant Financial Service Group, Hangzhou

DATA NETWORK WITH ADDED VALUE

In the capital of the Chinese province of Zhejiang the Alibaba subsidiary Ant Financial is constructing a new company head-quarters. A system solution by Datwyler ensures that the new building can depend on reliable data, voice and video transmission.





The new head office of the Ant Financial Service Group comprises a complex of buildings covering a total of 85,000 square metres, which on completion will provide space for 8000 workstations. The striking building, all of it in a zigzag structure, was designed by renowned architects NBBJ, who have already designed many well-known buildings including group head-quarters for Starbucks, Samsung and WorldCom.

Ant Financial is a subsidiary of the Chinese Alibaba Group. In 2014 it was created from Alipay, which operates the world's biggest mobile payment platform with over 400 million users annually. Today, in addition to Alipay, the financial services provider owns among others the money market fund Yu'e Bao, the credit rating system Zhima Credit (Sesame Credit), the online credit service Check Later (Huabei) and the online bank Mybank, which makes loans to small companies and private individuals.

18,000 points of information

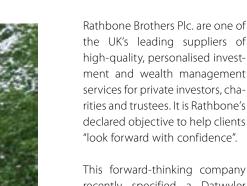
A solution from Datwyler was chosen for the data network throughout the building complex. Around 18,000 POIs (Points of Information) are provided via an unshielded cabling system with lowsmoke, halogen-free Category 6 copper data cables. Indoor and outdoor fibre optic cable systems are used for the backbone and campus cabling.

This solution meets all the requirements for secure data, voice and video transmission inside the building. Optimum engineering and the back-up service provided by Datwyler give users of the data network added value. (bc)





Rathbone's new premises in Finsbury Circus in London.



This forward-thinking company recently specified a Datwyler structured cabling solution for its new offices near Liverpool Street in London, as it offered the maximum possible performance for long-term network support.

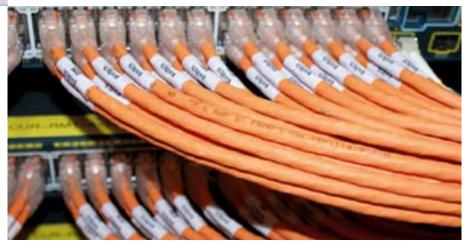
Installation, which extended over five floors, took place between September 2016 and January 2017. It included nearly 140 kilometres of shielded Category $6_{\rm A}$ cable, with 2500 floor box outlets. Only angled patch panels were used in the

Professional support

As the exclusive distributor of Datwyler cabling products in the UK and Ireland, iDaC Solutions worked closely with The Cabling Group, who delivered the installation, to ensure a smooth project roll-out.

The project and technical support throughout the project was first class, never a problem!

Graham Smith, Head of Account Management, The Cabling Group



Rathbones were already aware of the quality of the products and the security offered by Datwyler.

Having specified the Datwyler solution for a previous site, Rathbones were already aware of the quality of the products and the security offered by the Datwyler 25 Year System Warranty.

network racks to give users simpler cable management and higher port density, as no additional patch lead management panels were required.

Graham Smith, Head of Account Management at The Cabling Group, had already worked on quite a number of projects with iDaC Solutions and the Datwyler systems. "Rathbones was a fast track City fit-out, being undertaken across five high-end floor finishes. The IT cabling infrastructure was a Datwyler Category 6_A SFTP solution that had to support the clients, LAN, Wireless, BMS and AV networks," is how he summed it up afterwards. "The pace of the project was challenging, but with the support of the iDaC and Datwyler teams, we never missed a deadline. The materials were always available, and delivered when and where they were meant to, on time without fuss. The project and technical support throughout the project was first class, never a problem". (ph)



THE BEST CONNECTIONS FOR 80,000 VISITORS



The 2017 Gurten Festival

Installing the cable along the Gurtenbahn railway line



The festival on the Gurten has grown from a small alternative cultural and folk festival in 1977 into one of Switzerland's largest and most media-effective music festivals which also attracts top international acts. The 34th Gurten Festival was held in mid-July: four days with 61 live acts, 63 DJs, around 80,000 visitors and the best of festival weather.

Since 1999 the Gurten Festival has been organised by the Bern event company Appalooza Productions. Each time almost the whole management team moves up onto the mountain in the final weeks. Up till now a specially leased fibre optic line ensured that there was a connection "to the outside world" before and during the festival.

A leased line was not enough

The fibre optic cable was not only used for the festival team's laptops. The ordering systems of the caterers and shops on the mountain, ticketing information and entry control, the WLAN networks, and not least the onsite radio and television teams rely on dependable broadband transmission links.

From the perspective of the festival management a single cable - and a non-redundant one at that - presented an incalculable risk. It was also expensive to lease.

Last year Appalooza discussed the problem with Arnold AG. The network service provider suggested installing their own multi-fibre cable - a solution which promptly gained approval.

New cable from Datwyler

So it was that by the time of the 34th Gurten Festival a 48-fibre single-mode cable from Datwyler was already in use. At the beginning of the year this cable was added to the existing cable run along the Gurtenbahn railway. On the Gurten it terminates in a closure stored in a shaft with a long spare cable.

Shortly before the festival the closure is simply taken to the festival's technical hub and hung up there. This means that during the event connections are quickly available wherever they are needed.

Appalooza shares the fibre optic cable with Gurtenbahn Bern AG, which, among other things, uses the lines for its computer connections as well as for various surveillance cameras at the bottom and top station and on the bobsleigh track.

When asked, all those involved expressed great satisfaction with the solution found. For 2018 there are even plans to further extend the local fibre optic network on the site and to create additional links. (bs/sts)



The mobile fibre optic closure

Creek Residence, Dubai

FANTASTIC VIEW

In June Datwyler was awarded the contract for the cabling of six residential towers in Dubai.



The high-rise buildings of the "Creek Residence" complex, located right on the Promenade, will be between 30 and 40 storeys high and will afford residents a fantastic view of the harbour and the Dubai skyline.

The cabling of the 872 residential units comprises over 8000 data connection points. By the end of this year Datwyler will have supplied this project with, among other things, around 180 kilometres of Category 6 copper data cable and over 100 kilometres of various types of fibre optic cable.

This cabling project is one of the first in the United Arab Emirates to be approved on the basis of the new Ta'awun Directive. This government initiative, launched in early 2017, combines the competences of the two major service providers Etisalat and DU in order to give the emirate a robust telecommunications infrastructure which will enable subscribers to choose the supplier they want. (ak)



Certification training course

TRAINING FOR GPON SPECIALISTS

Specialists in GPON installation are wanted in the Philippines. Datwyler answers the need as part of its training programme.

Fibre optic cables into buildings and homes are becoming increasingly popular in the Philippines. At the same time there is an increased need for certified specialist professionals able to install the GPON (Gigabit-capable Passive Optical Network) Fibre to the Home technology routinely used.

At the end of May Datwyler therefore conducted a local certification seminar for GPON specialists together with its GPON partner Calix. The two-day training course was held in the Metropole Mandaluyong near Manila, the capital. Those attending were mainly technicians and IT specialists from Actionslab, a Datwyler Solution Partner, and the Greenfield Development Corporation, a major local customer.

On successful completion of the training course the participants were awarded a certificate. This was proof that as "GPON specialists" they were qualified to install, configure and administer equipment such as OLTs and ONTs. (qq)



The newly certified GPON specialists (l.) together with Greenfields ICT Manager Joey Vincoy, the Calix expert Adrian Lai, the Datwyler Managing Director for Asia-Pacific, Victor Wong, and the Datwyler Country Manager Glenn Go (m./r.)



Customer seminar in Bali

INSPIRATIONAL HOTELS

High-performing structured cabling, GPON connections, integrated WiFi and PoE: A solution like this turns every hotel room into a high tech experience.



Elecomp 2017

MEETING AGAIN IN TEHRAN

Thanks to its partner Datam Co. Datwyler this year again played a prominent part at "Elecomp", the Iranian trade fair.

In July Datwyler's Iranian partner Datam Co. again took part in the country's largest trade fair for electronics, computers and e-commerce. This time the exhibition stand was again dedicated entirely to Datwyler's system solutions, products and services.

The exhibition was a resounding success for both Datwyler and the exhibitor. In their four days on the stand Sad-

egh Moghadam, General Manager of Datam Co., and his team welcomed hundreds of visitors from a wide variety of industries, all of whom expressed interest in the high-quality "made in Switzerland" data network and data centre infrastructure solutions. (as)

Sadegh Moghadam and his team on the exhibition stand in Tehran In June Datwyler and the distributor PT Gunung Sawo jointly hosted a seminar in Bali on "Structured cabling solutions for the hospitality industry". It was organised by PT Data Trust, a local installer, who brought 20 customers from the hospitality sector to the event.

As Bali is one of the world's top visitor destinations, it is essential to have a cabling infrastructure which meets international requirements, particularly for hotels throughout the country but also for shopping centres and other tourist attractions. Nicholas Chuan, one of Datwyler's Sales Managers in Singapore, gave examples of several hotel projects to illustrate the contribution Datwyler can make here.

Integrate high speed WiFi

Senjaya Halim then gave an inspiring presentation on futureproof data networks. He encouraged the seminar participants to specify cabling solutions with cables and components of Category 6_A or higher in order to be able to integrate the latest high speed WiFi technologies such as IEEE 802.11ac and 11ax (10 Gbit/s). As the Datwyler data centre expert explained, "Today the transmission rate of a WiFi connection can be higher than that of a bad Cat.5e or Cat.6 cabling".

Datwyler's GPON (Gigabit-capable Passive Optical Networks) and fibre optic solutions also met with great interest, as they allow every hotel room and holiday complex to connect to the data highway.

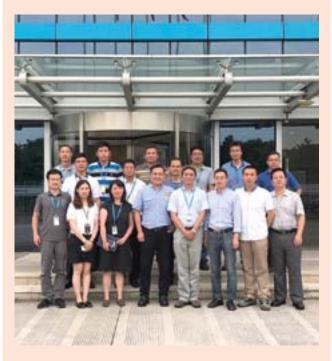
A complete solution from Datwyler, which additionally includes power supply via data cable (from PoE to 4PPoE), also provides the possibility of integrating the devices of the future into the cabling, something which could be of interest to keen high-tech patrons. This can make a hotel room into a vibrant experience for every guest. (dr)



Audit by Otis

TEST PASSED

For Datwyler in Taicang the successful Q+ audit by Otis forms the basis for more orders for lift cable systems.



The Datwyler team which prepared for the successful audit.

In July this year the Datwyler head office in China, Datwyler (Suzhou) Cabling Solutions Co. Ltd., passed the Q+ audit carried out by Otis, one of the world's largest manufacturers of lifts, escalators and moving walkways. The audit was conducted by a team of staff from Otis Tianjin and Otis Shanghai.

Datwyler had previously set up a cross-functional team in China to make the necessary preparations. It carried out a critical performance self-assessment, completed around two weeks prior to the audit. The self-assessment then formed the basis for a quick correction of any discrepancies.

The Otis representatives were as impressed by Datwyler's use of technology, the company's quality policy and production as by the Datwyler team's hard work. The plant was awarded a high score.

The successful audit is a milestone for Datwyler (Suzhou) Cabling Solutions Co. Ltd, in that it represents the basis for additional orders from Otis in China. (dy)

New business model



DATAM REPRESENTS DATWYLER IN IRAN

From solution partner to agent: Since September Datam Co. has been acting as the official contact for Datwyler distributors in Iran.



Strengthened partnership (from I.): Shaheer Shaaban, Internal Sales Manager at Datwyler, and Asem Shadid with Sadegh Moghadam, General Manager, and Hossein Tofigh, Director of Datam Co. At the beginning of this year, when Datwyler Middle East decided to carry out a structural realignment of marketing in Iran, the focus was on customer benefit. "We wanted a structure with which we could substantially improve the service level for our customers and more effectively protect our partner projects," says Asem Shadid, Managing Director for the Middle East and Africa. "Today we are convinced that we made the right decision."

The most important part of the new structure was the appointment in September of Datam Co. (Toseeh Fanavari Datam Ertebatat Pars), based in Tehran, as Datwyler's official representative. Since then Datam Co. has been in charge of the local distributors and at the same time – in addition to the distributors themselves – is available as a point of contact for Iranian system integrators and resellers.

"We approached several potential companies to see whether they would be interested in an agency and asked them to let us have their business plan by the end of August," reports Asem Shadid. "After careful inspection of all the documentation submitted we opted for Datam Co. as the most suitable candidate for furthering our business in a market as important as Iran." (shs)

On tour in Singapore

EVERYTHING'S "SUPER"!



Datwyler sponsored a visit to the National SuperComputing Centre in Singapore.

At the end of July a forum was held with a visit to the National SuperComputing Centre (NSCC), generously supported by Datwyler. 42 people attended the event, most of them from the IT and data centre departments of companies, local authorities and research institutes.

Senjaya Halim used the on-site forum to explain the network topology and cabling of High Performance Computing (HPC) to the experts present. In this context he introduced them to Datwyler's fibre optic solution tested for 100G, the values of which more than surpass the requirements of the current standard – 120G Infiniband as well as 100G Ethernet. "High performance computing requires very low latency and very high data throughput to run the parallel computers which carry out complex calculations," explained Senjaya Halim. One of the prerequisites for this are cables of the high fibre quality that is found in Datwyler products as a matter of course.

The tour also afforded insights into the liquid cooling technology used in the NSCC and the energy efficiency of the data centre, which is exemplary with a PUE (Power Usage Effectiveness) value of 1.36. (dr)



Seminar in Iran

FOCUS ON INNOVATIONS

Over 50 participants at Datwyler's first seminar in Tehran.

Datwyler organised its first seminar in Tehran on the evening of 2nd August. The event, held at the Tehran headquarters of Bank Mellat, was organised in close cooperation with the local solution partner MICTD and Raahbari Sanaye Behsaz (RSB).

Those attending were welcomed by Johannes Müller, CEO of Datwyler Cabling Solutions, who gave a short opening address and then handed the lectern over to Asem Shadid. The Managing Director of Datwyler Middle East first gave those present a brief insight into Datwyler's market strategy. He then introduced the guests to the international manufacturer's latest product innovations and system solutions.

Over 50 customers attended this event. It was a resounding success for all concerned. (shs)







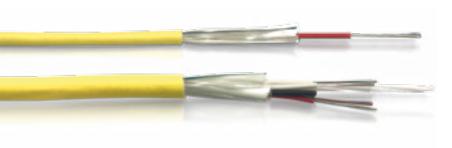




Trade fair in Basel

PLATFORM FOR NEW PRODUCT PRESENTATIONS

"What's new?" is the question asked by many visitors to an exhibition stand. At ineltec in Basel there was only one answer the Datwyler team could give: "A lot!"



Datwyler presented a gel-free FO indoor cable family of completely dry design. In mid-September Datwyler manned a large stand at ineltec, the biggest Swiss trade fair for intelligent building technology. In four days the on-site team welcomed more than 300 trade visitors.

This year Datwyler set off a veritable explosion of new developments. Among other things the cabling specialist presented a gel-free FO indoor cable family of completely dry design. Another handy solution are the fire alarm cables which the manufacturer supplies in PullQuick boxes and which fit comfortably into any service vehicle. For FTTx cabling systems this was the first ap-





The Datwyler team welcomed more than 300 trade visitors.

pearance of Datwyler's new generation of "spreadable" connecting sockets and modular fibre optic distributors serving as access distributors, premises distributors and floor distributors.

A great deal of interest was also generated by a cabling solution which can be used to transmit up to 100 watts via the data network. It can even be used to power and control office lighting (see page 20). Last but not least, visitors could see a live demo showing how up to 40 gigabits per second can reliably be transmitted in data centres via copper data cables and a new RJ45 connector. (dr)

4PPoE solution

100 WATTS VIA THE DATA NETWORK

Future Standard IEEE 802.3bt opens up traditional data cabling to completely new possibilities.

Power over Ethernet – PoE for short – describes a concept which supplies electrical consumers connected via a (copper) data cable with the power required to operate active devices. Today devices with a power requirement of up to 100 watts can already be operated in this way.

Video cameras and WLAN devices that draw power via the data network have long been commonplace. With 4PPoE – "Four-Pair Power over Ethernet" – output at the transmitter end increases to up to 100

watts. The new standard opens up traditional data cabling to completely new possibilities. It can even be used to power and control office lighting.

Datwyler is already providing its customers with the opportunity of using this technology. As the basis for 4PPoE applications the manufacturer recommends CU 7150 4P or CU 7702 4P shielded copper data cables and the proven KS-T Plus RJ45 module, which meets all the requirements of future Standard IEEE 802.3bt. (ms)





Data centre cabling

UP TO 40 GBIT/S VIA RJ45

Category 8.1 and 8.2 cables and components form the basis for 40GBase-T – and hence for a fast, economical server connection in data centres.

The test setup consisted of the CU 8203 4P copper data cable, the CU 8206 4P flex patch cable – both Category 8.2 – and a new RJ45 connector which Datwyler will shortly be launching on the market. The cable tester connected to the setup confirmed that: 25 and 40 Gbit/s can easily be transmitted for a distance of up to 30 metres over such a link. This meets the requirements of ISO/IEC 11801 Class I (Permanent Link and Channel) in every respect. (wa)

"OM5" HYPE -

and the facts

In the data centre environment there is a lot of fuss made about "OM5" fibre. Yet despite huge additional cost it currently offers no significant advantages

WBMMF (Wideband Multimode Fiber) is designated as "OM5" in the standards. But this fibre medium is not the next higher-performance multimode fibre to succeed OM3 and OM4, as the name suggests. It is rather a version of the OM4 fibre (the upper laser bandwidth of which is 880 nm), with an additional bandwidth characterisation at 953 nm.

"OM5" for Ethernet or Fibre Channel?

All Ethernet and Fibre Channel applications up to 400G, whether standardised or under development, use only one wavelength for transmission in multimode fibres, namely 850 nm, but use several fibres connected in parallel for transmission rates from 40G upwards. The so-called "OM5" fibre thus offers absolutely no advantage for the transmis-



Overview of SWDM applications and transmission media

sion of 40G and over. In fact the opposite is the case because of its substantially higher price and lower effective modal bandwidth (EMB) at 850 nm – compared with the OM4 fibre.

SWDM transmission via MMF

SWDM (Short Wave Division Multiplexing) is a wavelength multiplexing technology for transmitting data over four

wavelengths – between 850 nm and 940 nm – in multimode fibres. Here SWDM transceivers are connected to each other by two fibres (duplex channel).

As is often claimed, "OM5" fibre is not strictly necessary for SWDM transmission. As can be seen from the chart, OM3 and OM4 fibres are also suitable for this type of transmission. Existing installations can therefore also be used for SWDM transmission without new cabling.

SWDM transceiver roadmap

40G BiDi and 40G SWDM4 transceivers have been obtainable for some time now. The first 100G SWDM4 transceivers will shortly be available on the market. 200G SWDM4 transceivers are also under development for the near future.

No port breakout with SWDM4

In data centres the port breakout configuration is very popular for SR4 applications in order to increase port density and make cost savings at the same time. An SR4 port is basically nothing but four high-density SR ports. This configuration is currently possible with 40G and 100G SR4 transceivers. In future it will also be possible to use it for 200G and 400G.

However, SWDM4 applications cannot be split into individual channels, so each 100G SWDM4 channel has to be operated "100G end-to-end". That is by far the greatest disadvantage of this technology.

Conclusion

At the moment Datwyler sees no reason to recommend "OM5 fibre" for data centre cabling, as it offers no significant advantages. Instead, there is a clear trend towards single-mode fibre for future-proof cabling and higher transmission rates in the data centre environment. There will be more on this in the next edition of "Panorama". (pa)

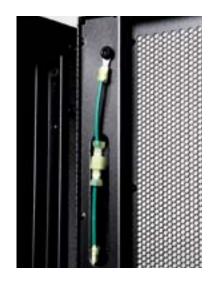
Ideal for data centres

THE MR100 RACK FAMILY





Datwyler provides its Chinese customers with rack solutions which leave nothing to be desired, especially for use in data centres.



For a long time IT cabinets were considered to be of secondary importance. But, since technologies like Big Data, Internet Finance and Cloud Computing have been driving forward the expansion and construction of data centres,

increased attention is being paid to suitable rack solutions. No wonder, as after all they have become an important component of an overall solution encompassing air conditioning, power distribution, cabling, environmental control and monitoring.

With the MR100 family of racks, Datwyler in China has now introduced a cabinet system for data centres which meets all the requirements for maximum packing densities, reliable operation, sophisticated management and future expandability.

The new racks, which can take equipment weighing up to 1600 kilograms, offer the user many advantages such as doors with a perforation rate of 76%, vertical cable ducts which do not obstruct the flow of cooling air, and numerous options for ingenious cable management. The cabinets have roof

panels which can be installed and removed again in seconds. The doors, which can open to right or left, can be removed or exchanged without tools and also provide quick-lock earthing which saves around 80% of time compared with a traditional earthing solution. All doors and side panels are lockable.

In association with the new family of racks Datwyler is offering its Chinese customers a comprehensive range of accessories and many optional services. For example, on request you will receive PDUs with management functionality or even an intelligent locking system. (sz)



Certificate

DATWYLER = HIGH TECH

Datwyler Cabling Solutions certified as a "New High Tech Enterprise" in China.

Thanks to the joint efforts of all the staff Datwyler (Suzhou) Cabling Solutions Co., Ltd. in Taicang has successfully been certified as a "New High Tech Enterprise".

Certification was carried out in November 2016 by a management group dealing with the identification and inspection of relevant companies at national level.

Companies which can be certified as a "New High Tech Enterprise" are those which



promote significant new developments in an existing specialist area using science and technology, their own inventions or innovative methods. (cc)

ALL THE INFORMATION AT A GLANCE

Update on the CPR

Datwyler has incorporated into the online data sheets the fire classes and Declarations of Performance of all cables affected by the Construction Products Regulation.

Since 1st July 2017 the new Construction Products Regulation EU 305/2011 (CPR) has applied throughout the European area. Datwyler has tested the reaction to fire of the cables concerned and published this in the data sheets on the website. In the online data sheets Datwyler customers will find clear details relating to the classification of the relevant copper and fibre optic cables - and the Declarations of Performance (DoPs) as a PDF in five languages immediately beside the article numbers.

At the same time Datwyler has extended from 6 to 10 digits the article numbers of the cables and other products which come under the CPR. This extension provides customers with important additional information on classification and length or packing unit. You will find more on this topic in the customer information on our website. (dr)



New FO Indoor cable family **DUST-DRY!**

The new fibre optic indoor cables combine all the advantages of Datwyler FO Universal cables with a design which is totally dry.

Datwyler's ZGGFR / SZGGFR FO indoor cable family (with 12-144 fibres) comes free from gel, with completely dry loose tubes. This makes the fibres very easy to work with.

At the same time they feature all the positive characteristics valued by users of the tried and tested FO Universal cables: high mechanical stability, non-metallic rodent protection together with a flame-retardant and halogen-free cable sheath.





SWITZERLAND

Dätwyler Cabling Solutions AG Gotthardstrasse 31 6460 Altdorf T +41 41 875-1268 F +41 41 875-1986 info.cabling.ch@datwyler.com www.cabling.datwyler.com

GERMANY

Dätwyler Cables GmbH Auf der Roos 4-12 65795 Hattersheim T +49 6190 8880-0 F +49 6190 8880-80 info.cabling.de@datwyler.com www.cabling.datwyler.com

Dätwyler Cables GmbH Lilienthalstraße 17 85399 Hallbergmoos T +49 811 998633-0 F +49 811 998633-30 info.cabling.de@datwyler.com www.cabling.datwyler.com

AUSTRIA

Dätwyler Cables GmbH
Niederlassung Österreich
Liebermannstraße A02 403
2345 Brunn am Gebirge
T +43 1 8101641-0
F +43 1 8101641-35
info.cabling.at@datwyler.com
www.cabling.datwyler.com

CHINA

Datwyler (Suzhou)
Cabling Solutions Co., Ltd
No. 218, East Beijing Road
Taicang Economic Development Zone
Jiangsu Province, 215413
T +86 512 3306-8066
F +86 512 3306-8049
info.cabling.cn@datwyler.com
www.cabling.datwyler.cn

UNITED ARAB EMIRATES

Datwyler Middle East FZE
Jabel Ali Free Zone
LB 15, Second Floor, Room #10 & 11
P. O. Box 263480
Dubai
T +971 4 4228129
F +971 4 4228096
info.cabling.ae@datwyler.com
www.cabling.datwyler.com

Datwyler Cabling Solutions LLC
Unit 1004 & 1005, 10th Floor, IB Tower
Business Bay
Dubai
T +971 4 4228129
F +971 4 4228096
info.cabling.ae@datwyler.com

www.cabling.datwyler.com

SINGAPORE

Datwyler (Thelma)
Cables+Systems Pte Ltd
30 Toh Guan Road #01-01A
608840 Singapore
T +65 68631166
F +65 68978885
info.cabling.sg@datwyler.com
www.cabling.datwyler.com