

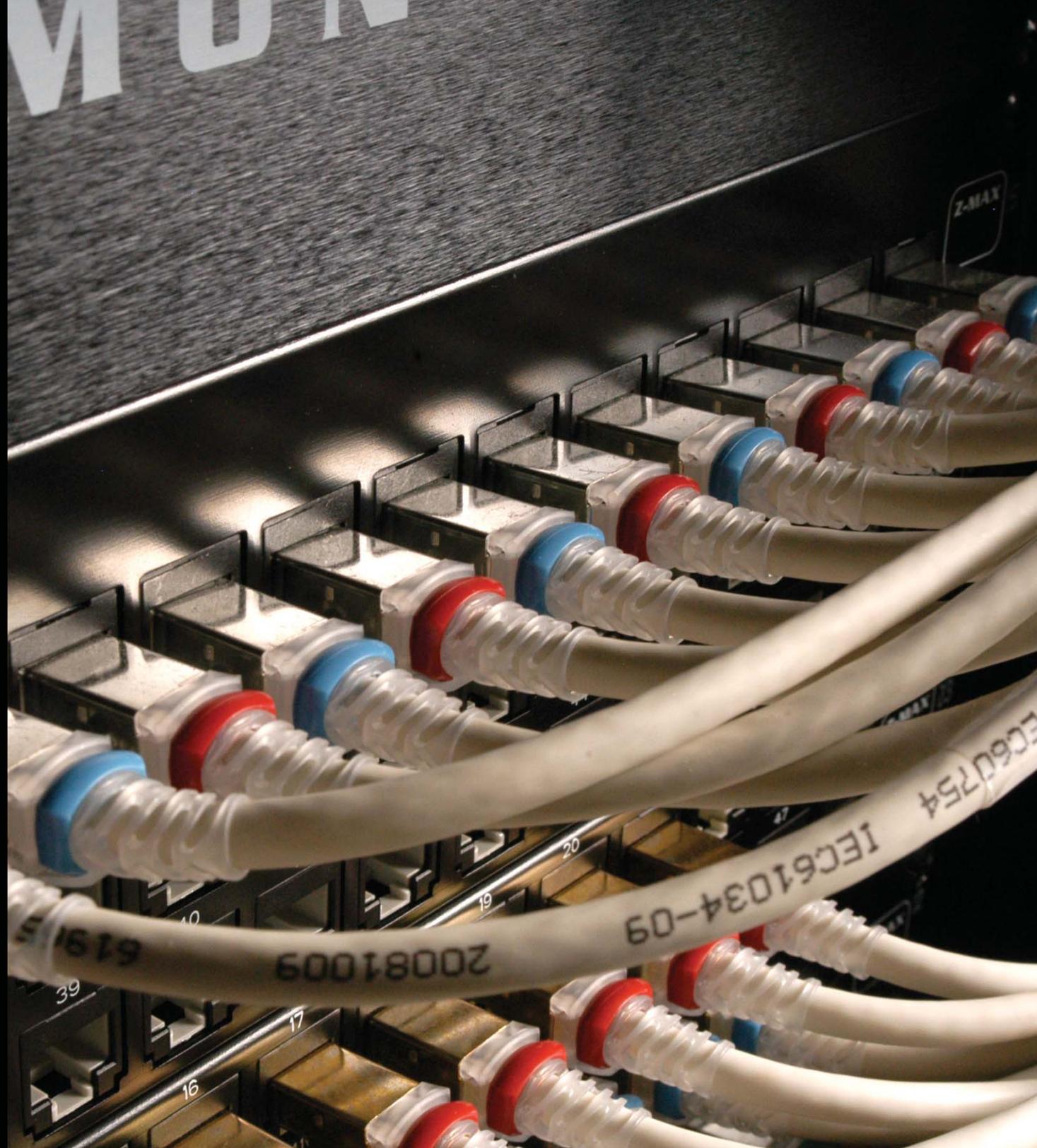
SIEMON™ Data Center Solutions

www.siemon.com



DATA CENTER SOLUTIONS

- ▶▶ Future Proof Performance
- ▶▶ Space Saving Through Optimum Density
- ▶▶ Robust Security and Regulatory Compliance
- ▶▶ Asset Management
- ▶▶ Downtime Reduction
- ▶▶ Thermal Management and Power Efficiency



Did you know?

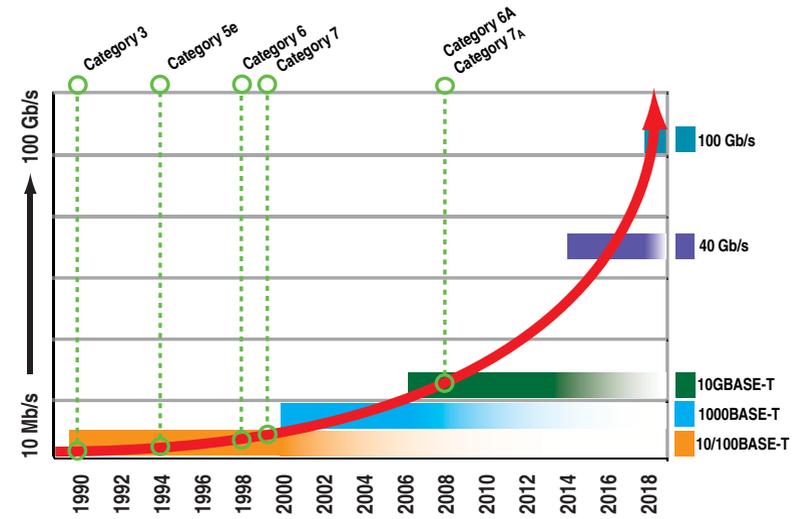
The TIA 942 and ISO 24764 Data Center Standards recommend a cabling infrastructure of category 6A or higher.

Do you know why?

Progression of Cabling Performance

The key data center standards recommend 10Gb/s or better cabling based on the time-tested best-practice of selecting systems that will provide the maximum longevity. This minimizes the disruption and downtime associated with lower-performing cabling and provides lower total cost of ownership for the cabling plant.

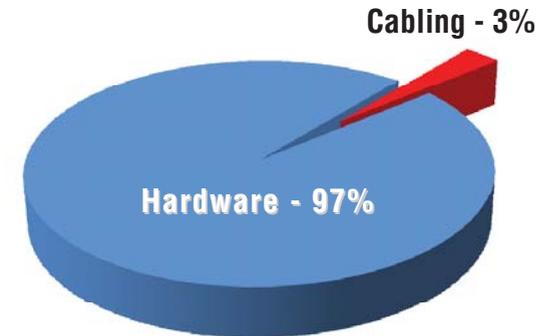
It all boils down to the constant advance of network performance requirements. IP and storage applications are evolving more and more rapidly, consuming bandwidth, driving faster speeds and shortening network application life cycles. Even Moore's Law is being challenged - by most estimates, processing power doubles every 12 months, compared to Moore's original 24-month benchmark. The longer your cabling plant can support these expanding performance requirements, the more cost-effective it becomes.



Small Investment, Big Implications

Cabling typically represents just 3% of your network's hardware spend and under 0.4% of the total IT budget. In spite of its relatively low cost, the cabling plant is the critical foundation of your organization - the backbone upon which the entire network runs. Cabling is also the longest lasting piece of network infrastructure, expected to last 10-15 years, supporting 2-3 iterations of active equipment and is potentially the most difficult and disruptive piece to replace.

In other words, it is the last place in your data center you should settle for "just good enough."





Copper Cabling Solutions

Siemon offers a comprehensive line of end-to-end copper cabling solutions designed to deliver the highest performance to your current and future data center.

Category 7_A TERA®

After over a decade of increasing adoption, this fully-shielded cabling solution is still the highest-performing twisted-pair copper system available in the world, supporting speeds of 10Gb/s and beyond.

Z-MAX™ 6A

Siemon innovation at its best. Available in both shielded and UTP configurations, Z-MAX 6A is the highest-performing, fastest-terminating category 6A solution on the market.

Future-Proof Performance

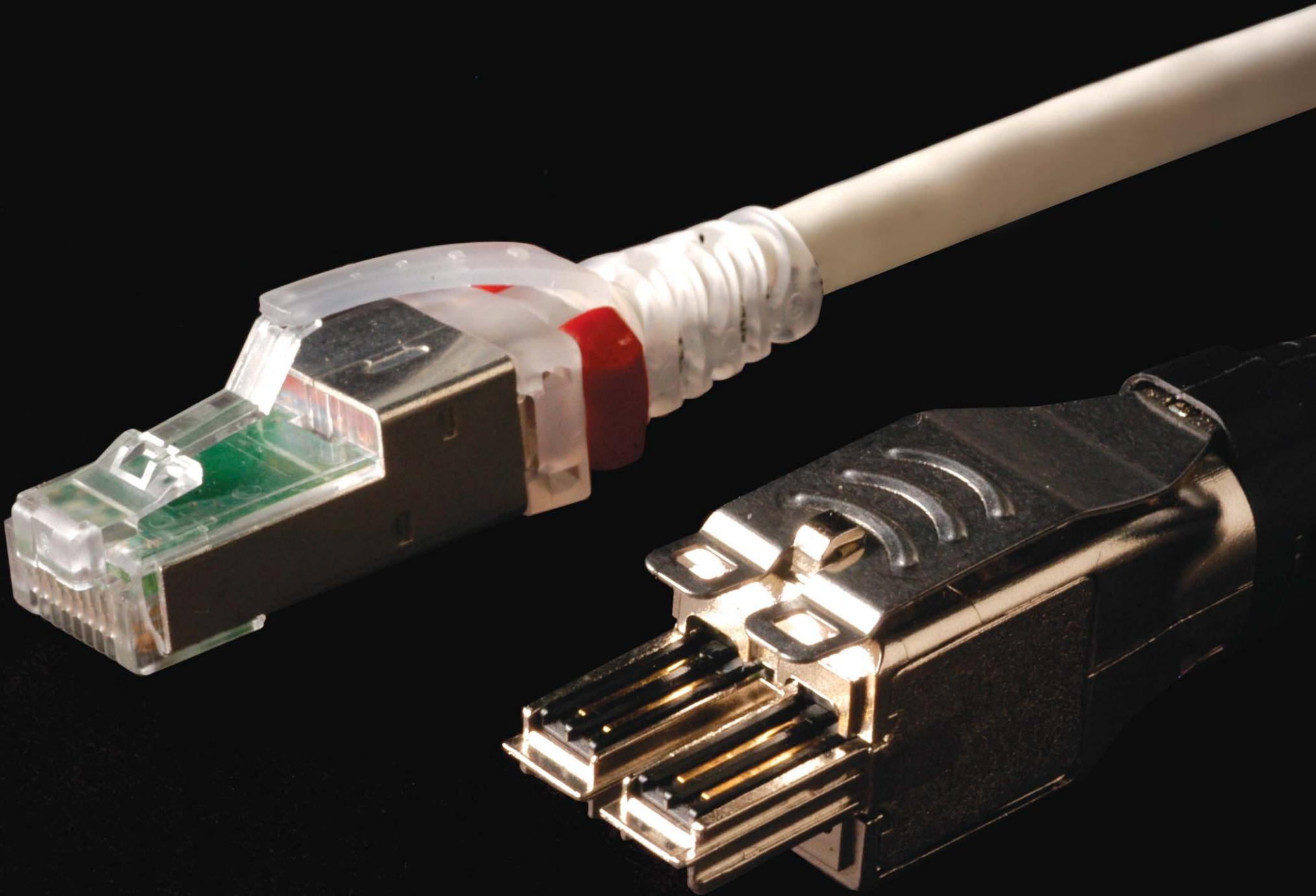
With performance to 10Gb/s and beyond, Siemon copper systems maximize the useful life cycle of your data center's cabling plant - reducing total cost of ownership and saving you money.

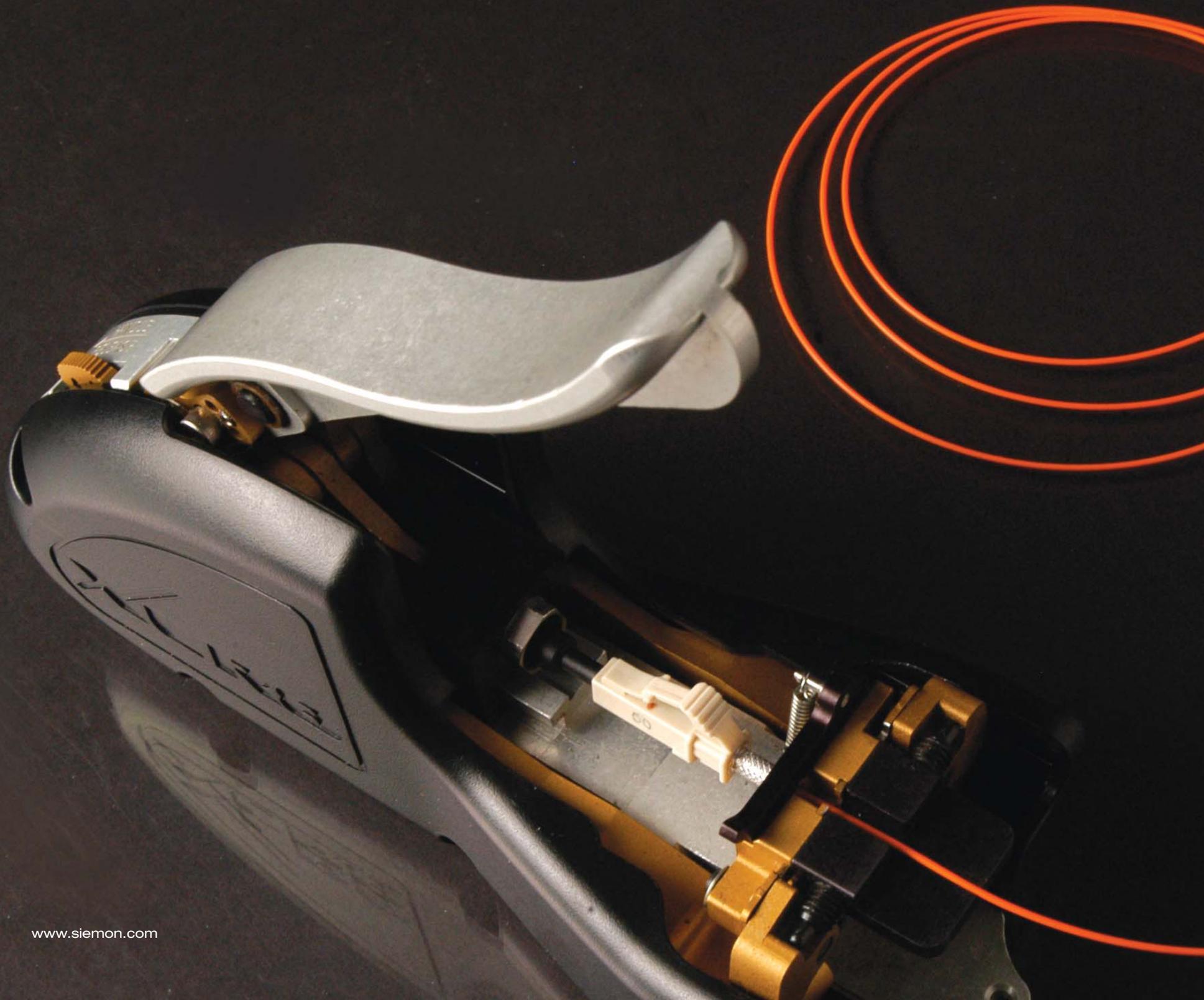
Rapid Data Center Deployment

From the best-in-class 60-second Z-MAX termination process to the Quick-Snap efficiency of pre-terminated trunking cable assemblies, Siemon copper systems deliver a host of advancements to get your data center infrastructure up and running - fast.

Robust Shielded Solutions

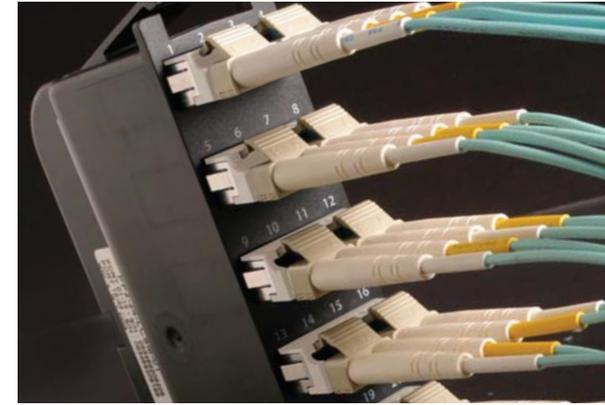
Shielded cabling eliminates alien crosstalk and EMI/RFI concerns. Siemon's pioneering efforts with shielded cabling have made these high-performance, flexible systems more user-friendly than ever before.





Fiber Optic Cabling Solutions

Siemon offers a comprehensive line of end-to-end fiber cabling solutions designed to deliver the highest performance to your current and future data center.



Plug and Play Fiber Assemblies and Connectivity

Combining high-quality RazorCore™ fiber with the performance and rapid deployment capabilities of factory-terminated MTP® connectivity, Siemon's Plug and Play Fiber Optic Cabling System was designed from the ground up to satisfy the bandwidth needs of high-performance data centers.

XGLO® Laser Optimized 10Gb/s Fiber Optic System

A full end-to-end suite of high-performance OM3, OM4, and singlemode fiber cable, field install connectors, fiber jumpers and pigtails, as well as fiber enclosures and cable management options. XGLO is supported by Siemon's innovative and time-saving XLR8™ mechanical splice tool and connectivity system.

40Gb/s and 100Gb/s Ready

Siemon RazorCore fiber and MTP connectivity puts tomorrow's performance levels in your data center today. Utilized with standard LC and SC plug and play connectivity you get the high-density 10Gb/s support you need now as well as the 40 and 100Gb/s MTP-MTP connectivity you'll need in the future.

Quick and Efficient Implementation

Siemon Plug and Play systems and pre-terminated fiber trunking cable assemblies provide a rapidly deployed, application-specific solution for high-bandwidth data center channels. Simply order to desired length, install and plug in - saving up to 75% over traditional field termination times.

Faster, More Reliable Field Termination

With the innovative XLR8 mechanical splice fiber optic termination system, LC and SC field terminations are completed up to 50% faster, while its user-friendly, single step process removes the performance variability common with craft-intensive epoxy-polish field termination systems.

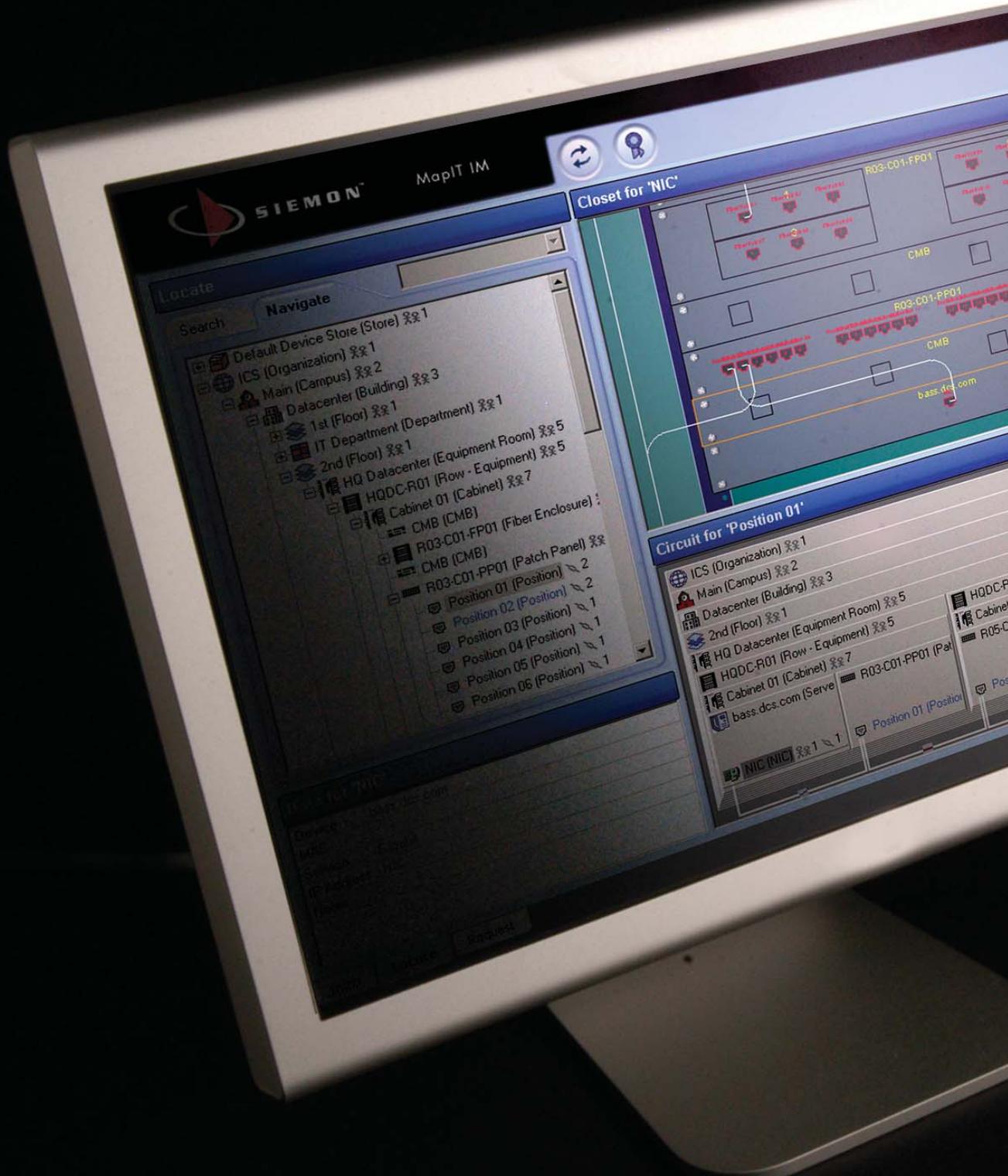
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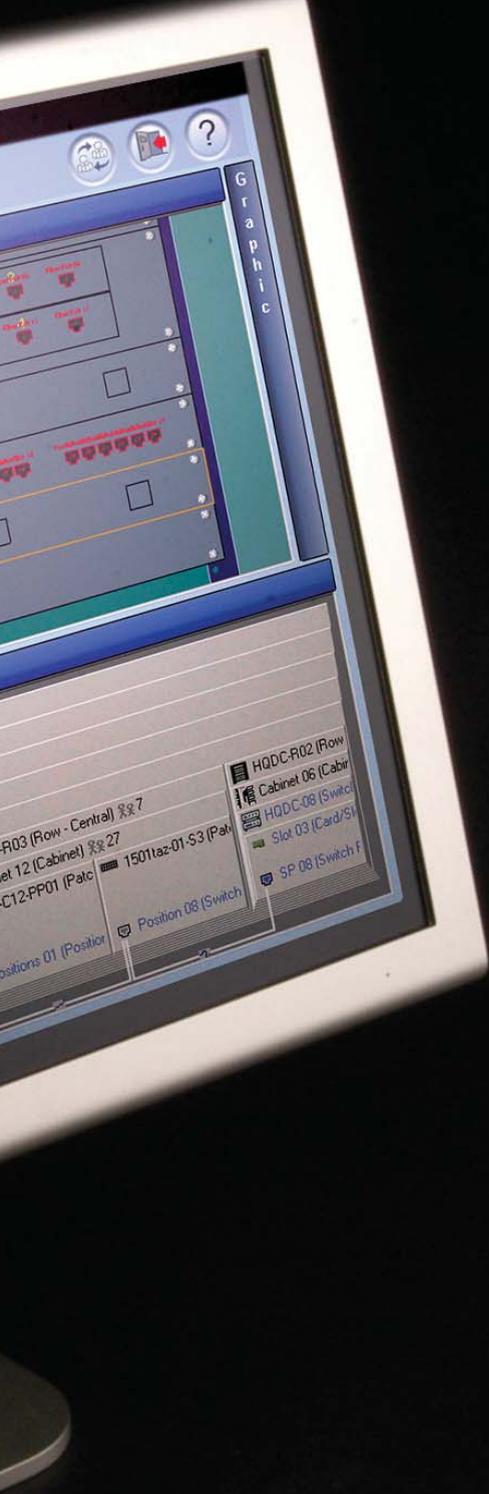


MapIT G2™

Next-Generation Intelligent Infrastructure Solution
for Physical Layer Network Management

MapIT G2 integrates a powerful combination of innovative Smart Patch Panels, user-friendly Master Control Panels and MapIT IM software to provide real-time tracking and reporting of network-wide physical layer activity. This benchmark IIM system offers truly unparalleled ability to manage and secure a complex network.





▶▶ SECURITY

MapIT™ G2 tracks any physical layer changes, such as unauthorized removal of equipment or connection of unapproved devices - logging exactly when and where a breach occurred. MapIT IM™ software can even send e-mail alerts to IT or security staff in real time, enhancing endpoint security.

▶▶ ASSET MANAGEMENT

MapIT IM utilization reports let you see all available switch or patch panel ports to maximize equipment investment and lower power consumption for a greener, energy-efficient solution. End devices can be tracked by location, equipment type, manufacturer, service or other criteria, providing better visibility and management of these critical assets.

▶▶ PREVENT DOWNTIME

MapIT G2 physical layer management capabilities help organize your network for peak performance. Detailed circuit trace capability instantly identifies the location of a fault in a channel and displays this information on MapIT G2 Smart Patch Panels to guide onsite staff, reducing the time required to find and fix a network outage.

▶▶ AUTOMATED NETWORK DOCUMENTATION

All network information is stored in a MapIT IM software-driven database, which is automatically updated in real time as moves, adds and changes are made, ensuring that the network infrastructure status is known at all times. The system maintains an audit log of all of these network events, simplifying compliance with regulatory mandates, such as Sarbanes-Oxley, ITIL, HIPAA, FDA 21 CFR Part II, etc.

▶▶ REMOTE SITE MANAGEMENT

Through the combination of MapIT IM software and smart connectivity, MapIT G2 gives you complete, centralized visibility and control of your entire physical layer network - from your central data center to a small branch office halfway around the world.

VersaPOD™

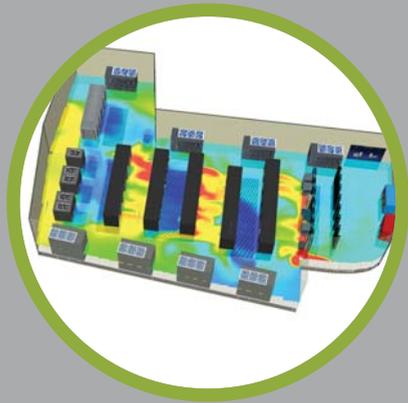
Data Center Solution



VersaPOD™

Maximizing Data Center Space Utilization

Siemon's VersaPOD enables a completely new and efficient approach to your physical data center infrastructure. By leveraging the vertical space between bayed cabinets for patching and cable management, the VersaPOD frees horizontal mounting space for active equipment while improving air flow and increasing density.



Energy Efficiency and Thermal Management

With energy costs and consumption continuing to rise, Siemon's VersaPOD system has been designed to optimize air flow and thermal efficiency with either underfloor or overhead pathway systems. By moving cable management and patching to dedicated Zero-U vertical zones between bayed cabinets or at the end of row, cabling no longer impedes hot aisle/cold aisle circulation.



Simple Scalability

All of the VersaPOD's unique features are integrated into a full-featured modular enclosure that is equally effective as a standalone cabinet or in a multi-unit bayed configuration, offering a simple, scalable expansion path in any data center.



Zero-U Density

The VersaPOD's innovative Zero-U vertical patch panels dramatically simplify even the most dense active equipment patching needs while its vertical patching channels offer a clean, orderly and easily manageable method of high-density cable routing. Zero-U patching can also reduce the number of cabinets and Data Center floor space required.

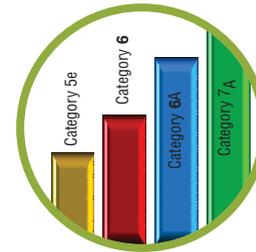
Green Data Centers Begin with Green Infrastructure Choices

To truly build a green data center, many factors come into play, from length of use to power consumption. Physical infrastructure represents an area where significant energy and resource savings can be achieved and environmental impact carefully controlled. Siemon provides both the expertise and technology to put a green data center infrastructure plan into action.



Extended Cabling Life cycle

When installing cabling, it is wise to install systems that will provide the maximum longevity. When examining the green building initiatives, the reduction of materials that will need to be replaced over time is an even greater incentive to install higher-performing cabling such as Siemon's Z-MAX 6A™ or TERA® twisted pair copper and XGLO® fiber optic systems.



Asset Management

MapIT G2™ helps maximize data center energy efficiency by identifying underutilized assets and unnecessary power usage. And, MapIT G2 uses up to 75% less power than competitive Intelligent Infrastructure Management systems.



Reduce Waste

Preterminated copper and fiber trunking cables, fiber plug and play solutions and bulk packaging options reduce onsite material waste common with field terminations, creating greener, faster installations.



Improved Pathway Airflow

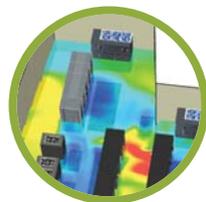
Impeded cabling pathways are a common source of data center cooling issues. Smaller diameter cabling, such as XGLO fiber and category 6A F/UTP copper can reduce pathway fill while providing a high-bandwidth infrastructure. Preterminated trunking cables and fiber plug and play consolidate multiple channels into a single, manageable bundle, organizing pathways for more efficient airflow.



Green Design Services

Siemon Data Center Services can help reduce the data center's environmental impact through technology, design strategies and recommendations for:

- Future-Proof Infrastructures
- Resource Management/Maximization
- Reducing Power Consumption
- Thermal Efficiency
- Cabling Abatement/Recycling Planning



Data Center Thermal Management

Siemon's VersaPOD™ cabinet solution offers a host of innovative features to help control data center airflow for more efficient cooling, including hot/cold aisle isolation, Zero-U cable zones, high circulation doors and more.

Optimum Density

Making the most of your space

Plug and Play

A single MTP® plug and play connector and RazorCore™ cable replaces up to 24 individual fibers and connectors, reducing both cabinet and rack space usage as well as pathway space

Z-MAX™ 6A

Z-MAX 48 port, 1U category 6A patch panels deliver more high-bandwidth connectivity in less space across your data center

VersaPOD™ Zero-U Patching

VersaPOD Zero-U vertical patching between bayed cabinets frees critical horizontal space for active equipment reducing the overall number of cabinets required saving valuable data center real estate.

MapIT™ G2

MapIT G2 dramatically reduces the amount of rack space required for intelligent infrastructure management components. Because the intelligence is built into the patch panels, MapIT G2 provides up to 80% better density than competing systems. For example, some systems require up to 60 rack mount spaces to manage 20,000 ports. MapIT G2 can manage the same number of ports with only 7U of rack space.



Siemon Data Center Design Services

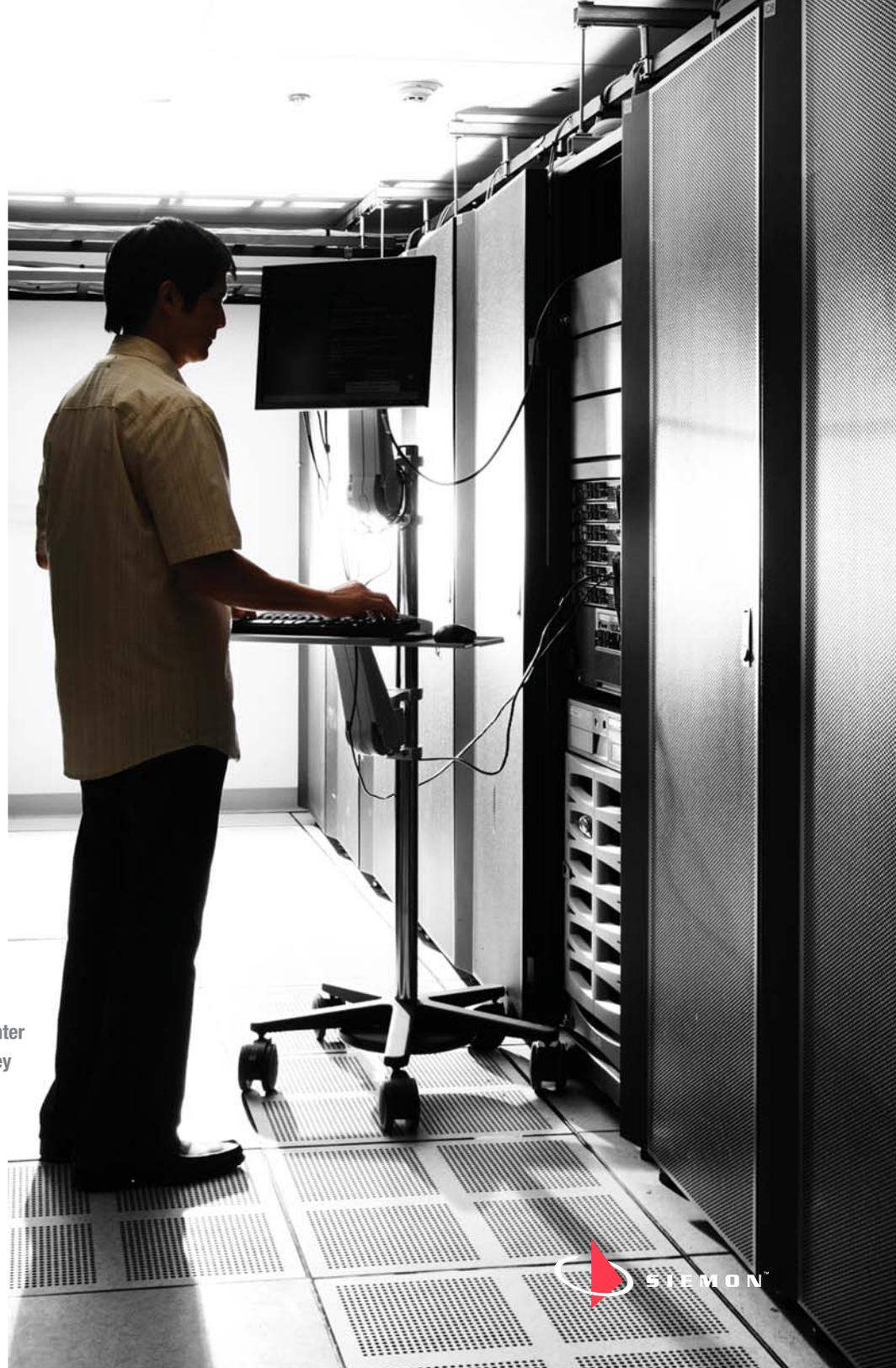
Data Center professionals often turn to expert advice throughout the life of their data center - power and cooling experts, switch experts, storage experts, etc. . .

Why should your cabling infrastructure be any different? Siemon has focused its century of cabling expertise into a global data center service network, capable of guiding you through the process of selecting and designing the infrastructure upon which your entire data center will rely.

Siemon's Global Data Center Services team can provide analysis and actionable recommendations on:

- **Standards-Based IT Infrastructure Design/Blueprinting**
- **Power Consumption / Thermal Management/Energy Reduction**
- **Green Building Credits (LEED, etc.)**
- **Documentation/Security**
- **Disaster Recovery/Redundancy**
- **Regulatory Compliance**
- **Global Deployment**
- **Cabling Abatement/Recycling Planning**

Siemon partners with industry leaders who offer best in class networking equipment, data center integration and outsourcing services. Together, Siemon and its partners offer complete turn-key design, installation and ongoing support of your entire mission critical facility.



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