



# SIEMON

NETWORK CABLING SOLUTIONS

## SYSTEMS OVERVIEW

In today's fast-paced business environment, success is dependent on the ability to manage data and information at an ever-increasing speed. This means that the decisions made regarding investment on IT infrastructure are vitally important.

A company's IT infrastructure, and specifically the structured cabling system, is the foundation upon which everything else depends. It is the foundation of business success.

Today, no matter where you are in the world, there is high expectation for readily available, accessible information. Whether it's data, voice or video, the demands on a company's cabling system to support this information is increasing exponentially.

Businesses routinely require bandwidth that is 100 or even 1000 times faster than 10 years ago. Bandwidth-intensive internet-based applications like video or voice over IP, combined with the advancement of industry standards, are driving demand for speeds of 1Gb/s and 10Gb/s.

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**With over 100 years of manufacturing excellence, Siemon continues to offer the best solutions possible for its customers around the globe.**

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**S**iemon cabling solutions provide the highest performing structured cabling systems to support your most demanding network requirements. Siemon has been in the business of providing innovative solutions for 100 years and no other cabling systems available today offer the same performance and value-added benefits.

Siemon's extensive participation in industry standards development enables us to stay well ahead of the technology curve. Siemon has a world-renowned reputation for quality and advanced performance, and is one of the few manufacturers who hold the environmental certificate of ISO 14001 in addition to 9001 and 9002.

With over 100 years of manufacturing excellence and service, Siemon continues to offer the best solutions possible for its customers. Performance metrics such as on-time delivery, quality and forecast accuracy are among the top criteria for measuring its customer satisfaction.

With all this in mind, we can help you make the right decisions about network cabling and provide you with solutions that will ensure your company is able to perform to its highest level, just like our cabling systems!



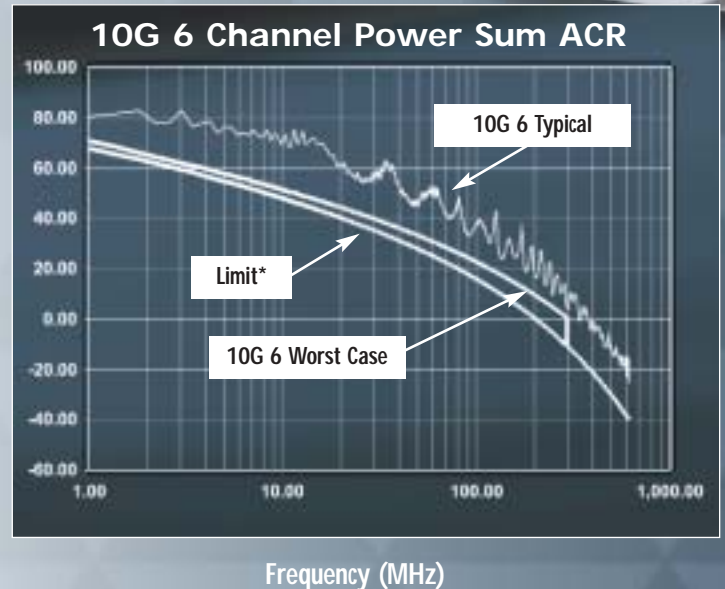
**10G 6™** is the augmented Category 6 component of Siemon's 10G *ip*™ Solution and the world's most advanced UTP and ScTP cabling systems specifically engineered to handle the increasing performance demands of emerging and converging applications like voice over IP, IP video and building automation systems. 10G 6 provides superior performance beyond the category 6 standard at 250 MHz and useable bandwidth to at least 500 MHz. It is ideal for delivering the most advanced IP-based applications to the desktop.

**Siemon's 10G 6 is the best choice for delivering today's advanced IP-based services to the desktop.**

## SIEMON LAUNCHES 10G *ip*™ -THE WORLD'S HIGHEST PERFORMING STRUCTURED CABLING SYSTEM

10G *ip*™ combines Siemon's 10Gb/s XGLO™ Fibre Solution with the two best performing copper cabling systems available-TERA® and 10G 6™ - to deliver network cabling solutions that are unsurpassed in the industry. For more information about 10G *ip*™ contact the Siemon Company at: [www.siemon.com/10Gip](http://www.siemon.com/10Gip)

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\*Limit value extrapolated from TIA equations



Siemon offers some of the industry's highest performing cabling systems available.

System 6® represents exceptional value, with margin on all parameters beyond category 6 and Power Sum ACR out to 250 MHz it is also fully qualified to support 10 gigabit for a distance of 55m (180 ft.) as specified within draft specifications of pending TIA TSB 155.

Siemon is proud to have been the first manufacturer to provide true category 6 performance for connecting hardware well before the standard was finalised.

From the telecommunications room to the work area, all Siemon System 6 products exceed cable connecting hardware and channel performance specifications set forth for category 6 by the TIA/EIA and ISO/IEC.

System 6 Channel Power Sum ACR



Frequency (MHz)

Performance guarantees are based upon a worst case  
4 connector, 100 metre channel.

The demand for bandwidth has been increasing exponentially over the past several years, driving the development of faster premise networks.

As little as 5 years ago, only 20% of all LAN traffic reached the network backbone. It is estimated that today 80% of all LAN traffic reaches the network backbone. New bandwidth-intensive data and multimedia applications along with faster, higher capacity LAN equipment will continue to demand more from cabling systems.

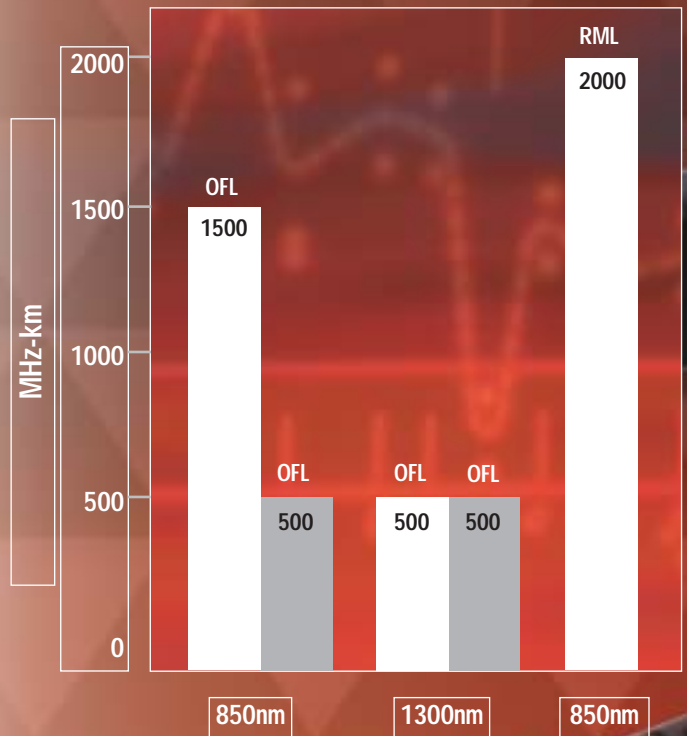
LightSystem® and XGLO™ are complete end-to-end fibre optic solutions for today's requirements and tomorrow's demands. These systems offer the industry's most comprehensive horizontal and backbone fibre cabling solutions available today.

XGLO is part of Siemon's 10G *ip*™ high performance cabling system and utilizes laser-optimized fibre for superior transmission performance for applications like 1G and 10G Ethernet.

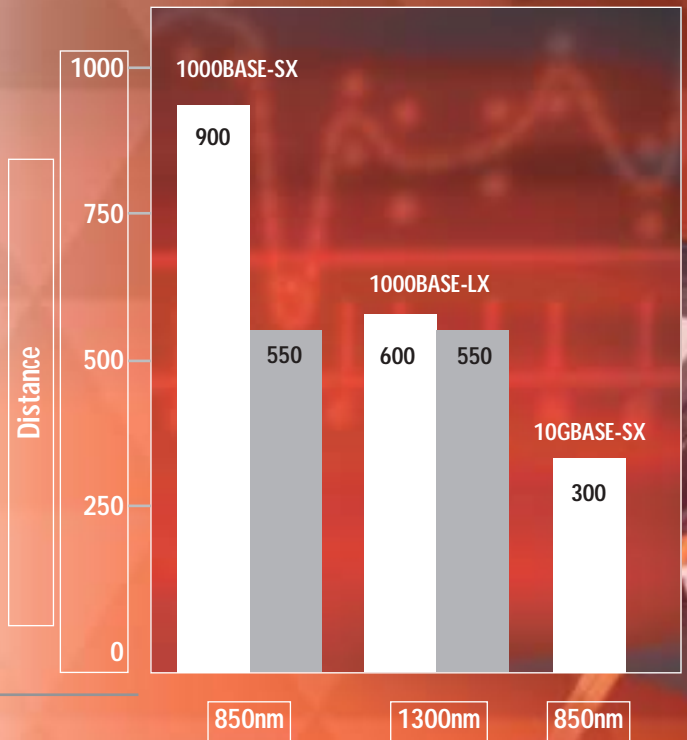
LightSystem is ideal for companies that do not yet require a 10 gigabit system, but still need a high-performance system that can support gigabit Ethernet applications.



**Bandwidth**




**Guaranteed Distance**



**Siemon's LightSystem and XGLO**

are complete end-to-end fibre optic solutions for today's requirements and tomorrow's demands.

The image shows several Siemon TERA connectors and a patch panel. The connectors are shown in various orientations, highlighting their compact design and modular ports. One connector is shown plugged into a patch panel, demonstrating its use in a structured cabling system. The background is a dark, textured surface with a grid pattern.

Siemon's fully shielded TERA® is also part of Siemon's 10G *ip*™ and is the first commercially available cabling system to meet category 7 standards.

The TERA connector can support simultaneous, multiple applications including voice, high-speed LAN services and broadband video all over one cable. TERA's compact design and 1-, 2-, and 4-pair modularity enable easy administration of several applications in one outlet, eliminating the need for multiple fibre, coax, and twisted-pair cables as well as additional and costly LAN equipment.

In addition to supporting 10 Gb/s, what is unique about TERA is its ability to provide service up to 1.2 GHz, twice the bandwidth dictated by the original cat 7/class F standard. It is also the only non-RJ category 7/classF industry-standard connector.

TERA is even capable of supporting full broadband analog video – traditionally 870 MHz – over a single pair while transmitting voice and high speed data on the other twisted pairs. No other copper cabling system can do this.

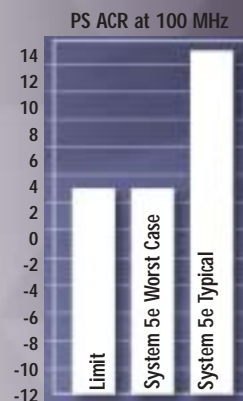
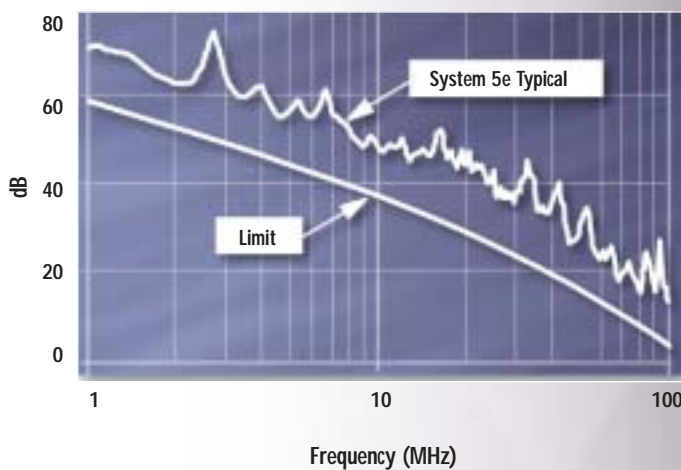
Quite simply, TERA is the highest performing standards-based balanced cabling system in the world, and it is truly multi-media capable. Being first to market with a fully compliant cat 7/class F connector and cabling system is yet another example of Siemon's pre-eminence as the world's technology leader in structured cabling.



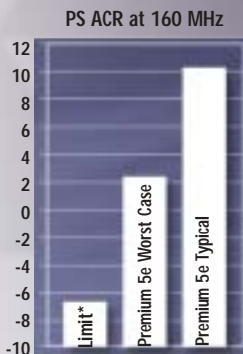
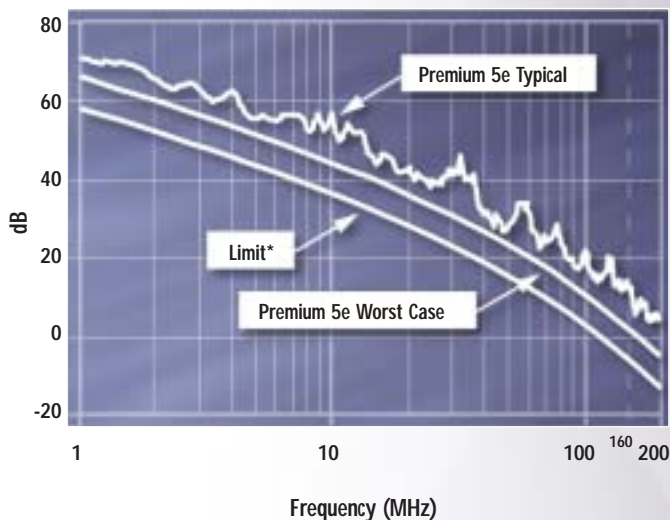
**S**ystem 5e provides exceptional value for customers planning and implementing a category 5e cabling infrastructure. System 5e meets all TIA/EIA and ISO/IEC specifications for category 5e channel performance.

Premium 5e is a superior category 5e solution designed to provide robust applications support. With more margin on all parameters specified by TIA/EIA and ISO/IEC, Premium 5e is the ideal solution for 10/100BASE-T Ethernet and the new Gigabit Ethernet standard. Premium 5e not only provides more margin, it also offers positive Power Sum ACR out to 160MHz.

**System 5e Channel Power Sum ACR**



**Premium 5e Channel Power Sum ACR**



\*Limit value extrapolated from TIA equations



**T**raditional connectivity products provide customers with years of reliable service in the typical office environment. However, expose the same copper or fibre connectors to extreme conditions such as dust, temperature, moisture or electromagnetic interference, and performance and reliability will suffer. In harsh environments where exposure to some or all of these elements is a daily occurrence, the typical mated connection may corrode, wear, or clog with debris, and eventually fail.

Siemon's Industrial MAX<sup>®</sup> is a new breed of connector designed to deliver a robust IP67 rated category 5e or 6 or fibre interface. For environments with high EMI, Siemon offers an ScTP version.

This new RJ-45 interface is commonly referred to as the "Industrial Connector", however applications are not limited to manufacturing. While the connector is designed to withstand the most punishing industrial conditions, applications exist in any environment subject to moisture, vibration and/or temperature extremes.

Siemon's Industrial MAX<sup>®</sup> is recognized by TIA/EIA TR 42.9 and the IEC PAS 61076-3-111 as well as the ODVA Ethernet/IP specification.

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**Siemon's Industrial MAX<sup>®</sup>  
products guarantee superior  
performance even in the harshest  
environmental conditions.**

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**A** cabling system is only as good as its design, installation and administration.

Through our global network of certified designers and installers, the Siemon Project Assistance Program provides customers with a process that ensures successful and consistent telecommunications cabling projects, from concept through implementation.

Every project is highly specialised and requires trained installation professionals to ensure performance that consistently surpasses standards requirements.

Certified designers and installers attend Siemon training centres around the world for an intensive week-long training program where they learn best practices and in-depth installation procedures. In addition, our designer and installer training is ISO 9001: 2000 certified, ensuring the highest levels of quality in training worldwide. This ensures that the same requirements for design and installation quality are applied whether the project entails a single, large-scale campus or hundreds of smaller sites distributed over multiple continents.

Siemon forms alliances with contractors, designers and installers that embody the highest levels of quality and integrity in the industry. A comprehensive selection criteria is used to qualify those companies that are interested in becoming a Siemon Certified Installer. This includes a minimum of 5 years in business, financial security and professional affiliation such as BICSI.

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**The Siemon Cabling System® will  
stand the test of time...guaranteed**

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## WARRANTY

**T**he Siemon Cabling System® warranty is a comprehensive commitment that guarantees:

- Coverage 100% backed by Siemon
- Comprehensive link and channel coverage of both products and applications.
- Parts and labour coverage on cable and connecting hardware
- Warranty direct from Siemon to the end-user, ensuring one primary point of contact
- Guaranteed to support future network applications

Siemon warrants that the system shall perform to the applicable 100Ω unshielded twisted-pair (UTP), screened twisted-pair (F/UTP), fully shielded twisted-pair (S/FTP), 50/125 micron and 62.5/125 micron multimode and singlemode optical fibre cable requirements dictated by the following:

- ANSI/TIA/EIA-568-B series and addenda
- ISO/IEC 11801:2002 ED.2.0

All existing and emerging applications approved by IEEE, ATM Forum, ANSI or ISO, including applications such as Gigabit Ethernet and 10 Gigabit Ethernet will be supported by the Siemon Cabling System.

Siemon Cabling System performance guarantees are based upon worst case measurements and worst-case channel model (4 connectors, 100 metres) so you can be sure your installed system will meet or exceed guaranteed system performance levels.



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