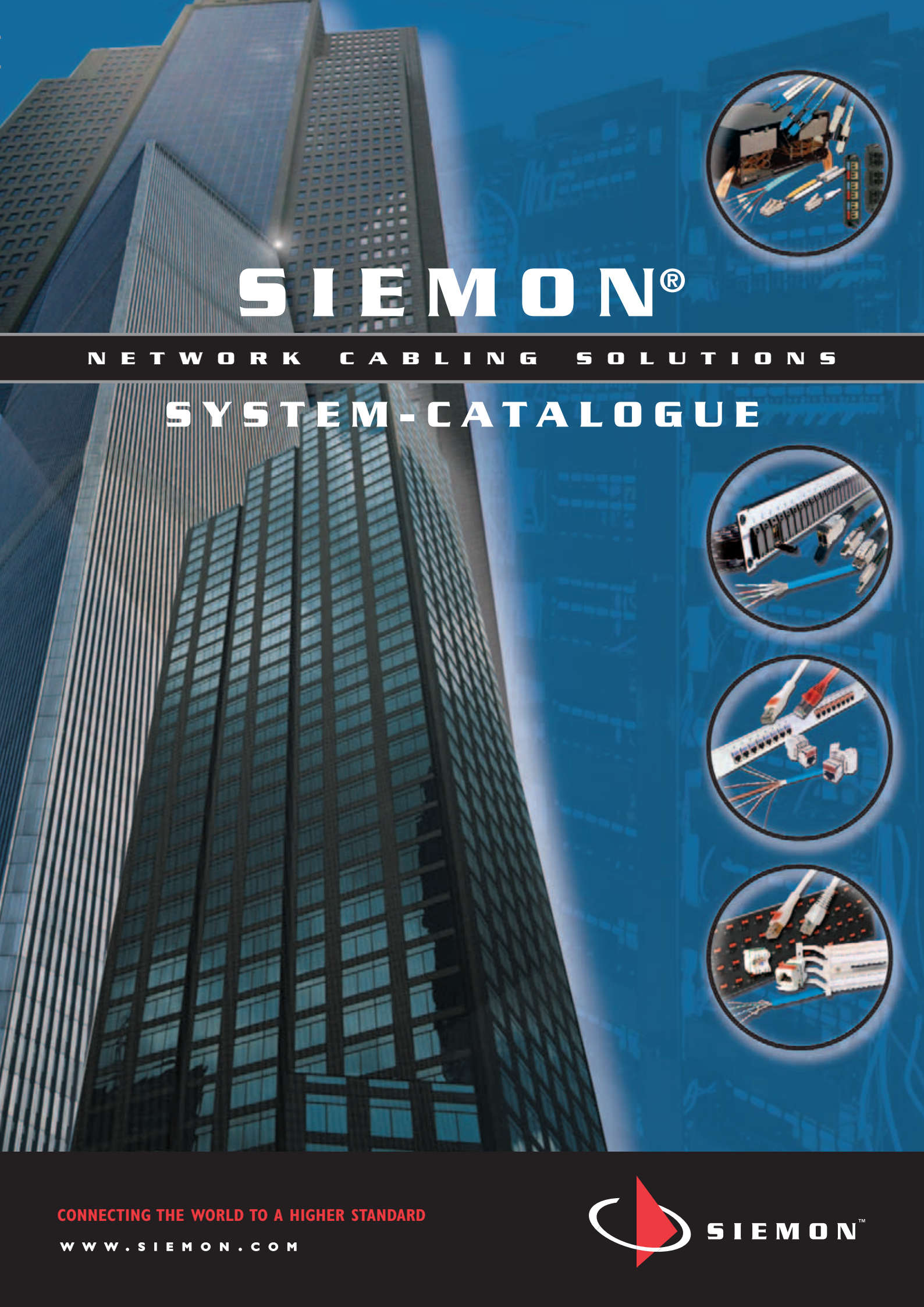


SIEMON®

NETWORK CABLING SOLUTIONS

SYSTEM-CATALOGUE

CONNECTING THE WORLD TO A HIGHER STANDARD

WWW.SIEMON.COM

SIEMON™

Welcome to Siemon's System Catalogue

In recent years, network cabling has become less a matter of individual components, and more a business of end-to-end systems, especially in high-performance cabling solutions. This new System Catalogue reflects that market change, arranging Siemon products into their appropriate systems to simplify the process of selecting an end-to-end cabling infrastructure.

While this catalogue represents the key products in each of our high-performance families, it does not include Siemon's entire line. We will continue to produce our full-line component catalogue, as we have done in the past.

The format is not the only new aspect of this catalogue. Many new innovations are included, and we encourage you to explore.

New and Notable:

- Siemon Copper and Fibre Cable
- New TERA® Cable and Cord options
- Enhancements to our 10G 6A F/UTP system
- Additional options in our 10G 6A UTP solution
- New MapIT™ Software and Connectivity options
- Copper and Fibre Trunking Cable Assemblies

RoHS

RoHS stands for Restriction on the use of Hazardous Substances. It is the European Directive 2002/95/EC that published in the Official Journal of the European Union in February of 2003. This RoHS directive provides preventive measures on a legal basis to restrict the use of certain hazardous substances in various types of new electronic and electrical equipment.

Siemon Position

Siemon has achieved full RoHS compliance. Specifically:

- All Siemon products shipped to EU Member States from our factories are fully RoHS compliant
- All Siemon products are shipped in packaging marked with the designation to signify RoHS compliance

A History of Stewardship

Siemon has a long-standing reputation for environmental consciousness. Over the years, it has won numerous awards including the William O. Jeffrey III Irmco Environmental Improvement Award, a CBIA Environmental Success Award, induction into the EPA's New England Star Track Program, State of CT DEP Green Circle awards, and ISO 14001:2004 certification.

PERFORMANCE MARKINGS

Meets category 3 ANSI/TIA/EIA-568-B.1 & B.2 and class C requirements of ISO/IEC 11801:2002 2nd Edition specifications. Requirements are specified to an upper frequency limit of 16 MHz.

Meets category 5e ANSI/TIA/EIA-568-B.1 & B.2 and class D requirements of ISO/IEC 11801:2002 2nd Edition specifications. Requirements are specified to an upper frequency limit of 100 MHz. This classification is a superset of CATEGORY 5.

Meets category 6 ANSI/TIA/EIA-568-B.2-1 and class E requirements of ISO/IEC 11801:2002 2nd Edition specifications. Requirements are specified to an upper frequency limit of 250 MHz. This classification is a superset of CATEGORY 5e.

Meets category 6 TIA/EIA-568-B.2-10 Draft and ISO/IEC 11801 Edition 2 proposed amendment 1 draft requirements. Requirements are specified to an upper frequency limit of 500 MHz. Component specifications are under development at time of printing.

Performance exceeds category 7 and meets class F ISO/IEC 11801:2002 2nd Edition specifications. Requirements are specified to an upper frequency limit of 600 MHz. This classification is an electrical superset of CATEGORY 6.

SAFETY MARKINGS

Communications Circuit Accessory Listed per Underwriters Laboratories Standard UL 1863 or Secondary Protectors for Communications Circuits Listed per Underwriters Laboratories Standard UL 497A, or non-metallic surface raceway and fittings Listed per UL 5A.

Certification by Underwriters Laboratories to United States Standards and C22.2 Canadian Telecommunications Standards.

Certification by the Canadian Standards Association to C22.2 Canadian Telecommunications Standards.

Electromagnetic Compatibility according to Article 10 of European Council Directive 89/336/EEC.

ORDERING INFORMATION

Bulk project packs are the most economical and environmentally friendly way to purchase products for large projects. Less packaging means fewer packages to open and less waste to clean up, which saves time and money. Bulk pack products are identified by the bulk pack symbol.

TABLE OF CONTENTS

This is a condensed catalogue, featuring core system-related products for the above featured systems as well as key supporting products. The complete Siemon product offering is available in our full line catalogue, which may be ordered at www.siemon.com.

ISO 9001:2002 and 14001

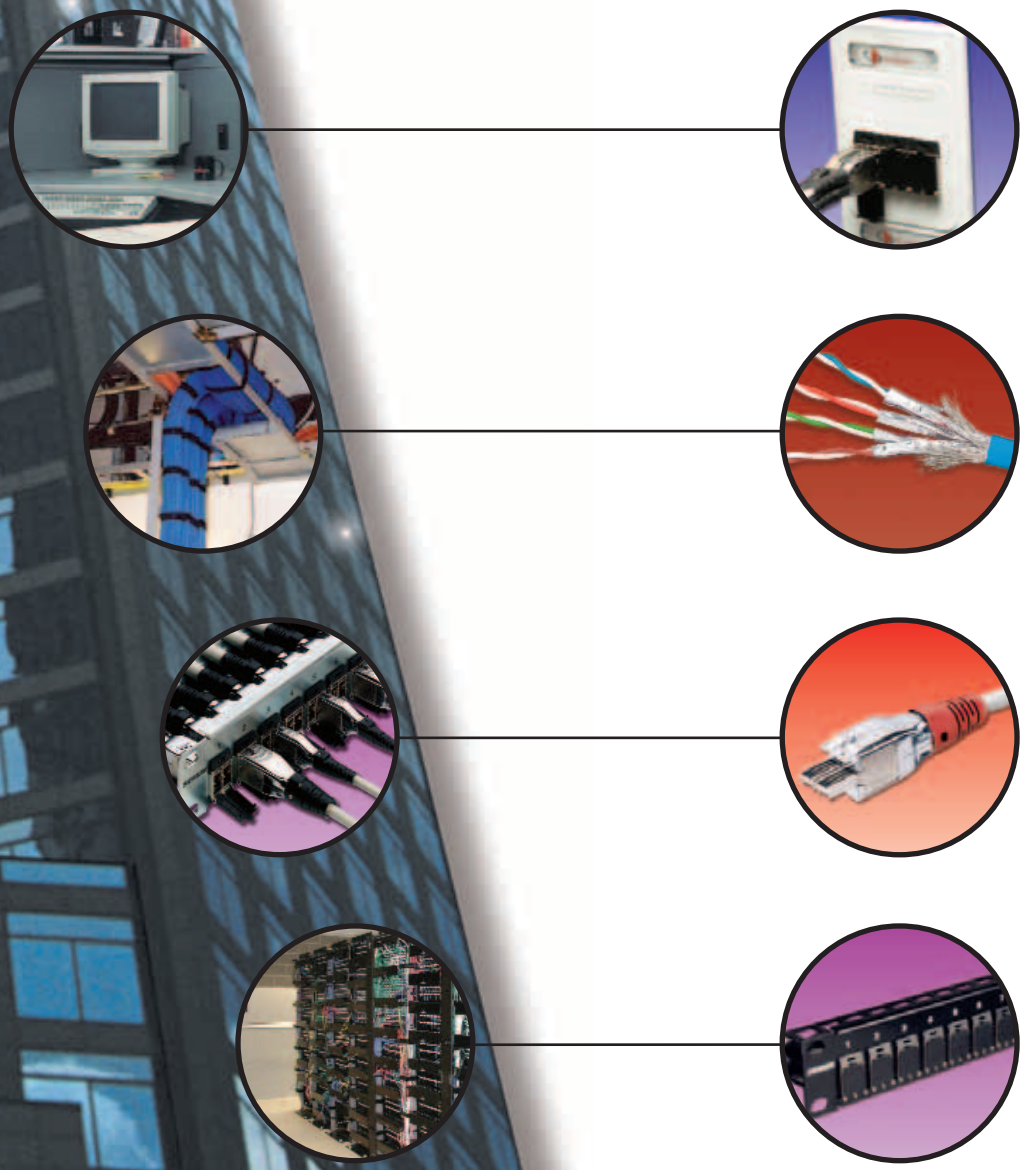
Because we are continuously improving our products, Siemon reserves the right to change specifications and availability without prior notice.

For other product options, please contact our Customer Service Department.

Exceeding ISO/IEC category 7/class F specifications, Siemon's fully shielded TERA end-to-end cabling solution is the highest-performing, most secure twisted-pair copper cabling system available. TERA supports performance beyond 10 Gb/s and passes stringent TEMPEST security testing.

Beyond industry best speed and bandwidth, TERA's unique cable-sharing ability in support of lower speed applications can provide up-front savings through the reduction of cable counts. By combining the use of one TERA outlet dedicated for high-speed applications and another for cable sharing of lower speed voice and video applications, end-users simultaneously benefit from the highest performing and most cost effective copper solution.

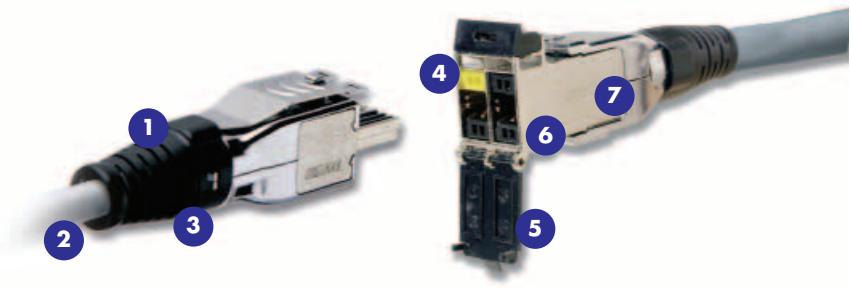
The only non-RJ connector approved as a category 7/class F interface, TERA fits within a standard RJ45 footprint and is easily connected to RJ45 equipped electronics via TERA to RJ patch cords.



TERA OUTLET

10G ip™

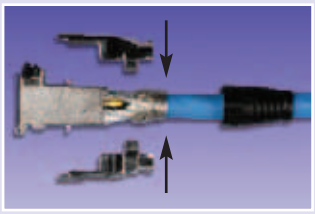
Invented in 1999 and subsequently chosen as an industry standard interface for category 7/class F, the Siemon TERA outlet is by far the highest performing twisted-pair copper connector in the world. When installed as part of a TERA solution, each pair delivers 1.2 GHz per pair — twice the bandwidth of current category 7/class F specifications. This extra bandwidth is critical for demanding applications like broadband video, with an upper frequency requirement of 862 MHz.



1. **Plug Identification** — Plug-port identification available via coloured boots
2. **Fully Shielded** — Terminates category 7 fully shielded (F/FTP and S/FTP) cable — virtually eliminates alien crosstalk
3. **Shielded Termination** — Connector automatically assures proper termination of cable shield — no additional processes required for grounding cable
4. **Compact Design** — Slim, compact design allows outlets to be side-stacked and inserted from either the front or rear of faceplates
5. **Hinged Door** — Outlets include a hinged door to prevent exposure to dust and other contaminates
6. **Quadrant Isolation** — Shielded quadrant design fully isolates pairs for optimum NEXT performance
7. **Application Sharing** — TERA's ability to support multiple applications over a single 4-pair cable and outlet can save significant material and installation costs
8. **Tempest Security Tested** — The TERA system is the first to pass TEMPEST emissions testing by an independent, NSA certified lab, Dayton T. Brown Inc.

EASY INSTALLATION
CPT-T tool reduces preparation and termination time to less than three minutes.

MOUNTING OPTIONS
The TERA outlet is compatible with TERA-MAX patch panels and all MAX and CT series Faceplates.



QUICK-GROUND™ TERMINATION
No additional steps required for termination. Cable shield is automatically terminated within the outlet without additional steps or tools.

TERA 4-PAIR OUTLET

PATENTED 7

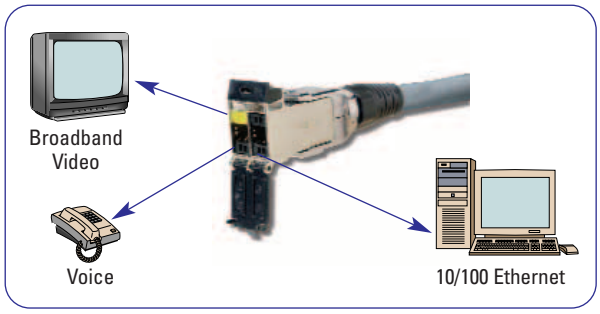
TERA outlets are the industry's highest performing network cabling connectors. Outlets accept 1-, 2- and 4-pair plugs and terminate fully shielded category 7 cables. TERA outlets can be used in both the work area and in the telecommunications room.

PART #	DESCRIPTION
T7F-01-1	TERA 4-pair outlet with black door, icon and boot. Compatible with 0.64-0.55mm (22-23 AWG) solid S/FTP and F/FTP cable

RELATED PRODUCTS MAX® Modular and CT® Faceplates pages 99-102

TERA CABLE SHARING

Up to four simultaneous applications can be served from a single 4-pair, S/FTP cable and TERA outlet saving significant materials, labour and space *(Broadband video, voice and 10/100 shown).*



TERA-MAX® PATCH PANELS

10G ip™

TERA-MAX 19 inch patch panels provide outstanding performance and reliability in a shielded, high-density modular solution. As outlets are snapped into place, resilient ground tabs assure that each outlet is properly grounded for maximum protection from outside interference. No secondary outlet grounding operations are required, reducing overall installation time.

1. **Standard Fit** — Panels can be mounted directly on standard 19 inch rack or cabinet
2. **Durable** — Lightweight, high strength steel with black or metallic finish
3. **High Density** — 24 10Gb/s ports in just 1 U — up to 96 ports with cable sharing
4. **Installation Friendly** — Individual modules snap into place from front or rear of panel, providing integrated grounding without additional steps
5. **Port Identification** — Bold port numbering enables quick identification of outlets

CABLE MANAGEMENT
Integral rear cable manager facilitates the orderly routing of horizontal cables as well as maintaining proper bend radius for optimum performance.

SLIM DESIGN
Use TERA outlets in TERA-MAX patch panel for telecommunications room applications.

INTEGRATED GROUNDING
Panels feature integrated grounding via resilient ground tabs engaged during module insertion

TERA-MAX PATCH PANELS

PART #	DESCRIPTION	U
TM-PNL-16-01	16-port TERA-MAX panel, black	1
TM-PNL-16	16-port TERA-MAX panel, metallic	1
TM-PNL-24-01	24-port TERA-MAX panel, black	1
TM-PNL-24	24-port TERA-MAX panel, metallic	1

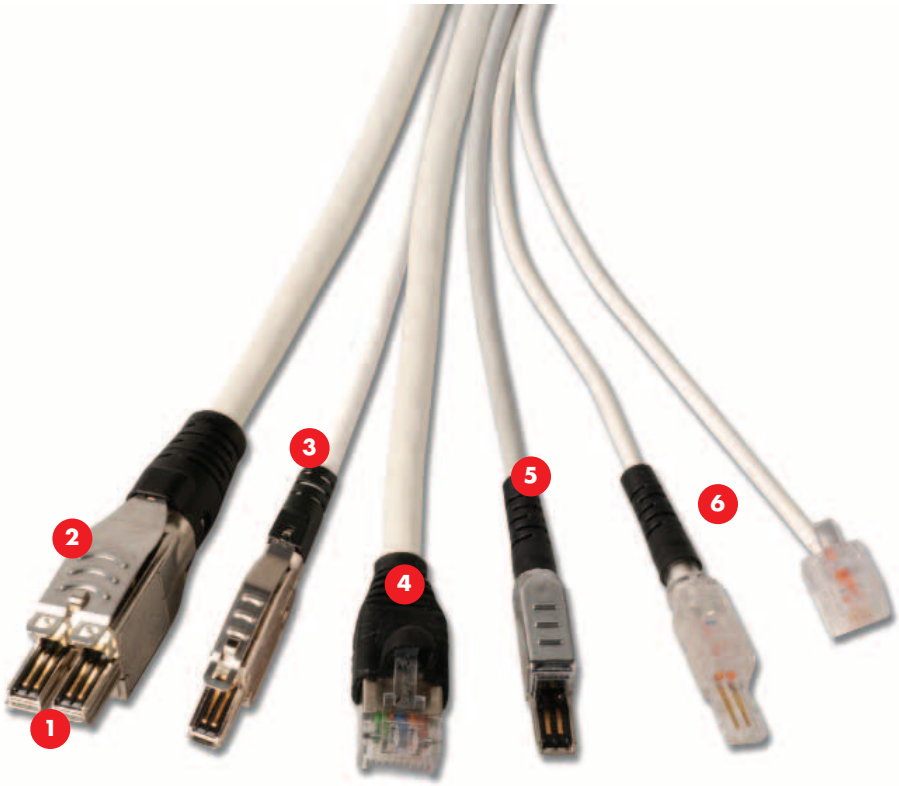
Panels include designation labels, cable ties and mounting hardware.

Note: 1 U = 44.5mm

TERA PATCH CORDS

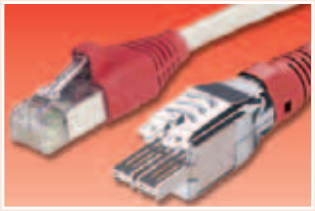
10G ip™

Part of the TERA cabling solution, TERA-to-TERA patch cords deliver twice the bandwidth of category 7/class F specifications when combined with the TERA outlet. While current specifications characterise connector performance up to 1000 MHz, TERA delivers up to 1.2 GHz of bandwidth per pair. This extra bandwidth is critical for demanding applications like broadband video, with an upper frequency requirement of 862 MHz, or the convergence of video, voice and data onto a single 4-pair cable and outlet. 1- and 2-pair cords facilitate TERA's unique cable sharing capabilities.



1. **Standard Compliant Interface** — Recognised within ISO/IEC 11801 Ed. 2.0
2. **4-Pair TERA - to - TERA** supports category 7/class F performance to 10 Gb/s and beyond
3. **2-Pair TERA - to - Screened category 5e** MC modular plug for 10/100 Ethernet, VoIP and video over IP
4. **4-Pair TERA - to - Screened augmented category 6A** MC® modular plug for 1G/10G Ethernet performance
5. **1-Pair TERA - to - TERA** for analog voice and video patching. Video balun cord also available
6. **1-Pair TERA - to - RJ11** for analog voice

STANDARD FOOTPRINT
ISO recognised interface allows TERA cords and outlets to fit within a standard RJ45 footprint



FULLY COMPATIBLE WITH ACTIVE ELECTRONICS
TERA to RJ45 patch cords allow the TERA system to be easily connected to RJ45 equipped active electronics.

VIRTUALLY IMMUNE TO CROSSTALK
Fully shielded S/FTP cable construction and patented 4-quadrant isolated plug effectively eliminate alien crosstalk and provide additional protection in high-EMI environments.

CABLE SHARING
Multiple applications can be run over one 4-pair cable and outlet, saving significant material and installation cost.

TERA PATCH CORDS

PATENTED

Unleash the power and flexibility of your TERA cabling with a variety of TERA patch cords designed to meet your bandwidth requirements today and tomorrow. Both TERA-to-TERA and TERA-to-modular plug cord options are available. 1- and 2-pair plug modularity allows multiple applications to be served from a single 4-pair outlet.

T4-(XX)M-B(XX)L 7
Category 7, 4-pair
TERA-to-TERA LS0H cable assembly,
ivory jacket, coloured boot

T1-(XX)M-B(XX)L 7
Category 7, 1-pair
TERA-to-TERA LS0H cable assembly,
grey jacket, coloured boot

T4A-(XX)M-B(XX)L 6A
Augmented category 6, 4-pair
TERA-to-Screened MC 6 modular plug
LS0H cable assembly, ivory jacket,
coloured boot, T568B

T4T-(XX)M-B(XX)L. 6A
Augmented category 6, 4-pair
TERA-to-Screened MC 6 modular plug
LS0H cable assembly, ivory jacket,
coloured boot, T568A

T2E2-(XX)M-B(XX)L 5e
Category 5e, 2-pair TERA-to-Screened
MC 5 modular plug LS0H cable assembly,
white jacket, coloured boot,
10/100BASE-T

T2UT-(XX)M-B(XX)L 5e
Category 5e, 2-pair TERA-to-Screened
MC 5 modular plug LS0H cable assembly,
white jacket, coloured boot,
Token Ring

T1U1-(XX)M-B(XX)L 5e
1-pair UTP TERA-to-6 position
modular plug LS0H cable assembly,
white jacket, coloured boot, Voice

TERA 4-PAIR PLUGS

TERA 4-pair plugs can be used to terminate horizontal cable in consolidation point applications. Plugs terminate fully shielded category 7 cable. 4-pair TERA plugs are designed specifically for the most demanding high-speed data applications.

T7P4-B(XX)-1. 7
4-pair TERA plug with coloured boot.
Compatible with 0.64 – 0.55mm solid (22-23
AWG) S/FTP and F/FTP cable

Use 1st (XX) to specify length: 01 = 1m, 02 = 2m, 03 = 3m, 05 = 5m

Use 2nd (XX) to specify boot colour: 01 = black, 02 = white, 03 = red, 05 = yellow, 06 = blue, 07 = green

Note: Field termination of TERA-to-modular plug patch cords is not recommended and is not compliant with Siemon warranty.

CMX cords also available. Contact our Customer Service Department for more information.

TERA VIDEO BALUNS

TERA CATV baluns provide the optimum solution for the transmission of TV or CATV signals over structured cabling systems that were historically limited to voice and data transmission. These products convert the unbalanced TV signals designed for coaxial cabling (75 Ω impedance) to balanced signals (100 Ω impedance) as required for transmission over twisted pair (balanced) cabling. The TERA CATV adapters are specified and useable to 862 MHz. The 1-pair TERA to PAL patch cord utilises an integrated balun. The F-Type adapter requires a separate 1-pair TERA to RJ-45 patch cord.

PART #	DESCRIPTION
T1VC-(XX)M-B01L.	1-pair TERA-to-PAL connector, LS0H cable assembly, grey jacket
TVCB-CA-F900.	RJ-45 to F-Type balun/adapter*

**Requires separate screened 1-pair TERA to RJ-45 patch cord (p/n: T1S4V-(XX)M-B01L). Please call for details.*

T1VC-(XX)M-B01L

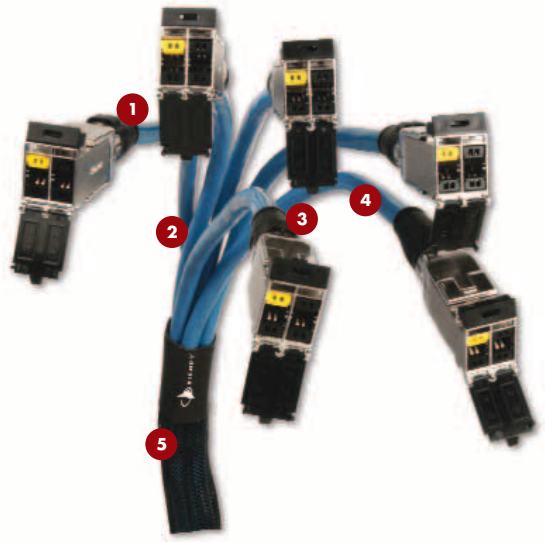
TVCB-CA-F900

Use (XX) to specify boot colour: 01 = black, 02 = white, 03 = red, 05 = yellow, 06 = blue, 07 = green

TERA S/FTP TRUNKING CABLE ASSEMBLIES

10G ip™

Siemon's TERA copper trunking cable assemblies provide an efficient and cost effective alternative to individual field-terminated components. Combining factory terminated and tested TERA outlets and fully shielded Siemon category 7 cable, Siemon TERA trunking cable assemblies offer industry leading performance to 10 Gb/s and beyond. Standard configurations also help maintain consistent cable layout, facilitate efficient moves, adds and changes and significantly reduce scrap versus typical field installation.



1. **Proper Orientation** — Each leg is labelled for proper outlet orientation
2. **Fully Shielded Cable** — Utilises high quality Category 7 S/FTP Siemon cable
3. **Factory Terminated and Tested** — Utilises TERA outlets, factory terminated and tested for performance to 10 Gb/s and beyond
4. **Identification** — Each cable assembly is coded with a unique identification number for administrative purposes
5. **Breakout Kit** — Unique breakout kit creates optimal cable orientation and limits cable crossing

DATA CENTERS
Ideal for Data Centre installations where raised floor and ladder rack environments accommodate easy installations.

SIMPLE, SNAP-IN INSTALLATION
Trident Cut aligns TERA outlets for optimal snap in installation into TERA-MAX patch panels.

PROTECTIVE PACKAGING
Each assembly is packaged individually to protect factory terminations.

TERA S/FTP TRUNKING CABLE ASSEMBLIES

PATENTED

PART #	DESCRIPTION
6 Leg Trunking Cable Assemblies:	
TJRD6E-F7F7(XXX)(X)	Category 7/class F, S/FTP, riser rated (CMR), double ended TERA outlets, blue jacket, 1000MHz
TJPD6E-F7F7(XXX)(X)	Category 7/class F, S/FTP, plenum rated (CMP), double ended TERA outlets, blue jacket, 1000MHz
TJLD8E-F7F7(XXX)(X)	Category 7/class F, S/FTP, LS0H rated (IEC 60332-1), double ended TERA outlets, violet jacket, 1000MHz

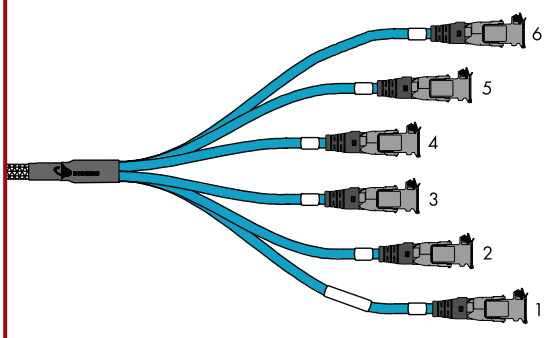
Use (XXX) to specify length:
003-36m in increments of 1 metre
009-120 ft. in increments of 3 feet
Use (X) unit: M = metres, F = feet

Other lengths available upon request.

Note: These products are made to order. Call for lead time and part number availability in your region.

TRIDENT/CENTRE CUT

Description:
Supports left, right or centre exit.



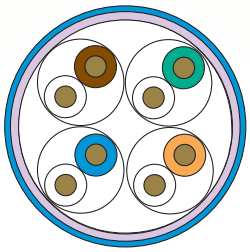
TERA S/FTP 1000 MHz 4-PAIR SOLID ROUND CABLE — US

10G ip™ 7

COMPLIANCE
- ISO/IEC 11801:2002 (Category 7)
- IEC 61156-5:2002 (Category 7)
- UL CMR and CSA FT4
- UL CMP and CSA FT6

PART #	DESCRIPTION
9T7P4-E10-06-R1	Plenum (CMP, CSA FT6), Blue Jacket, 305m Reel
9T7R4-E10-06-R1	Riser (CMR, CSA FT4), Blue Jacket, 305m Reel

CABLE CONSTRUCTION
- S/FTP
- 0.64mm (22 AWG) solid bare copper
- 8.9mm [CMR], 8.4mm [CMP] max jacket diameter
- Pairs individually shielded with aluminium-polyester foil
- Overall tinned copper braid



ELECTRICAL SPECIFICATIONS

DC Resistance	<17.0 Ω/100m
DC Resistance Unbalance	2%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1-100 MHz: 100 ± 15% 100-250 MHz: 100 ± 22% 250-1000 MHz: 100± 22%
NVP	80%
LCL	40-10 x log(f)dB
Delay Skew	≤20ns

PHYSICAL PROPERTIES

	CMP	CMR
Pulling Tension (max)	110N (25 lbf)	110N
Bend Radius (min)	50mm (2 in.)	50mm
Installation Temperature	0 to 60°C	-36 to 60°C
Storage Temperature	-20 to 75°C	-34 to 75°C
Operating Temperature	-20 to 60°C	-34 to 60°C

TRANSMISSION PERFORMANCE

GUARANTEED WORST CASE SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0*	2.1	1.7	78.0	100.0	75.0	97.0	75.9	98.3	72.9	95.3	78.0	90.0	75.0	87.0	20.0	30.0	512	492
4.0	3.7	3.4	78.0	100.0	75.0	97.0	74.3	96.6	71.3	93.6	78.0	90.0	75.0	87.0	23.0	33.0	494	474
10.0	5.8	5.0	78.0	100.0	75.0	97.0	72.2	95.0	69.2	92.0	74.0	90.0	71.0	87.0	25.0	35.0	487	467
16.0	7.3	6.4	78.0	100.0	75.0	97.0	70.7	93.6	67.7	90.6	69.9	90.0	66.9	87.0	25.0	35.0	485	465
20.0	8.2	7.1	78.0	100.0	75.0	97.0	69.8	92.9	66.8	89.9	68.0	90.0	65.0	87.0	25.0	35.0	484	464
31.25	10.3	9.0	78.0	100.0	75.0	97.0	67.7	91.0	64.7	88.0	64.1	90.0	61.1	87.0	23.6	33.6	482	462
62.5	14.6	13.0	75.5	100.0	72.5	97.0	60.9	87.0	57.9	84.0	58.1	85.0	55.1	82.0	21.5	31.5	481	461
100.0	18.5	16.8	72.4	98.0	69.4	95.0	53.9	81.2	50.9	78.2	54.0	81.0	51.0	78.0	20.1	30.1	480	460
200.0	26.5	23.9	67.9	93.0	64.9	90.0	41.4	69.1	38.4	66.1	48.0	77.0	45.0	74.0	18.0	28.0	479	459
250.0	29.7	28.5	66.4	92.1	63.4	89.1	36.7	63.6	33.7	60.6	46.0	76.0	43.0	73.0	17.3	27.3	478	458
300.0	32.7	29.2	65.2	91.0	62.2	88.0	32.6	61.8	29.6	58.8	44.5	71.0	41.5	68.0	17.3	27.3	478	458
350.0	35.4	31.8	64.2	90.3	61.2	87.3	28.8	58.5	25.8	55.5	43.1	69.0	40.1	66.0	17.3	27.3	478	458
400.0	38.0	33.4	63.4	89.1	60.4	86.1	25.4	55.7	22.4	52.7	42.0	68.1	39.0	65.1	17.3	27.3	478	458
550.0	45.0	37.2	61.3	87.3	58.3	84.3	16.3	50.1	13.3	47.1	39.2	66.2	36.2	63.1	17.3	27.3	478	458
600.0	47.1	42.5	60.7	86.1	57.7	83.1	13.6	43.6	10.6	40.6	38.4	60.0	35.4	57.0	17.3	27.3	477	458
800.0**	54.9	48.2	58.9	83.1	55.9	80.1	3.9	34.9	0.9	31.9	35.9	52.1	32.9	49.1	16.1	27.3	477	457
900.0**	58.5	53.8	58.1	82.0	55.1	79.0	-0.4	28.2	-3.4	25.2	34.9	48.0	31.9	45.0	15.5	25.0	477	456
1000.0**	61.9	57.5	57.4	81.0	54.4	78.0	-4.5	23.5	-7.5	20.5	34.0	46.0	31.0	43.0	15.1	24.0	477	456

Values below 4 MHz are informational only.

All performance based on 100 metres.

**Performance for frequencies beyond ISO and IEC requirements are for information only.*

RELATED PRODUCTS Cable Preparation Tool page 111

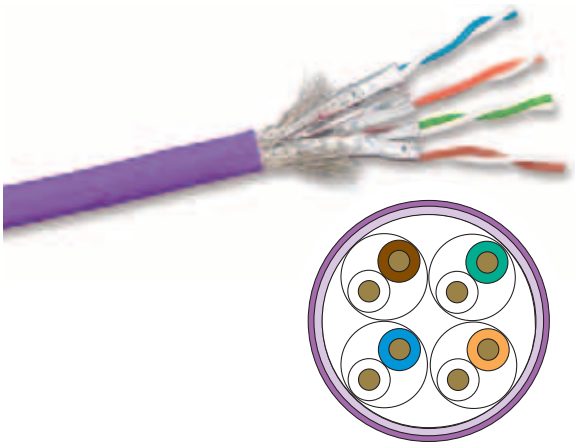
TERA S/FTP 1000 MHz 4-PAIR SOLID ROUND CABLE — INTERNATIONAL

10G ip™ 7

COMPLIANCE
- ISO/IEC 11801:2002 (Category 7)
- IEC 61156-5:2002 (Category 7)
- LS0H: IEC 60332-1, IEC 60754, and IEC 61034

PART #	DESCRIPTION
9T7L4-E10	LS0H (IEC 60332-1), Violet Jacket, 305m Reel
9T7L4-E10-5CR	LS0H (IEC 60332-1), Violet Jacket, 500m Reel
9T7L4-E10-1KR	LS0H (IEC 60332-1), Violet Jacket, 1000m Reel

CABLE CONSTRUCTION
- S/FTP
- 0.57mm (23 AWG) solid bare copper
- 8.4mm max jacket diameter
- Pairs individually shielded with aluminium-polyester foil
- Overall tinned copper braid



ELECTRICAL SPECIFICATIONS

DC Resistance	<17.0 Ω/100m
DC Resistance Unbalance	2%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1-100 MHz: 100 ± 15% 100-250 MHz: 100 ± 22% 250-1000 MHz: 100± 22%
NVP	80%
LCL	40-10 x log(*f*)dB
Delay Skew	≤20ns

PHYSICAL PROPERTIES

	LS0H
Pulling Tension (max)	110N (25 lbf)
Bend Radius (min)	50mm (2 in.)
Installation Temperature	0 to 60°C
Storage Temperature	-20 to 75°C
Operating Temperature	-20 to 60°C

TRANSMISSION PERFORMANCE

IEC 61156-5** SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0*	2.1	1.7	78.0	100.0	75.0	97.0	75.9	98.3	72.9	95.3	78.0	90.0	75.0	87.0	20.0	30.0	512	492
4.0	3.7	3.4	78.0	100.0	75.0	97.0	74.3	96.6	71.3	93.6	78.0	90.0	75.0	87.0	23.0	33.0	494	474
10.0	5.8	5.0	78.0	100.0	75.0	97.0	72.2	95.0	69.2	92.0	74.0	90.0	71.0	87.0	25.0	35.0	487	467
16.0	7.3	6.4	78.0	100.0	75.0	97.0	70.7	93.6	67.7	90.6	69.9	90.0	66.9	87.0	25.0	35.0	485	465
20.0	8.2	7.1	78.0	100.0	75.0	97.0	69.8	92.9	66.8	89.9	68.0	90.0	65.0	87.0	25.0	35.0	484	464
31.25	10.3	9.0	78.0	100.0	75.0	97.0	67.7	91.0	64.7	88.0	64.1	90.0	61.1	87.0	23.6	33.6	482	462
62.5	14.6	13.0	75.5	100.0	72.5	97.0	60.9	87.0	57.9	84.0	58.1	85.0	55.1	82.0	21.5	31.5	481	461
100.0	18.5	16.8	72.4	98.0	69.4	95.0	53.9	81.2	50.9	78.2	54.0	81.0	51.0	78.0	20.1	30.1	480	460
200.0	26.5	23.9	67.9	93.0	64.9	90.0	41.4	69.1	38.4	66.1	48.0	77.0	45.0	74.0	18.0	28.0	479	459
250.0	29.7	28.5	66.4	92.1	63.4	89.1	36.7	63.6	33.7	60.6	46.0	76.0	43.0	73.0	17.3	27.3	478	458
300.0	32.7	29.2	65.2	91.0	62.2	88.0	32.6	61.8	29.6	58.8	44.5	71.0	41.5	68.0	17.3	27.3	478	458
350.0	35.4	31.8	64.2	90.3	61.2	87.3	28.8	58.5	25.8	55.5	43.1	69.0	40.1	66.0	17.3	27.3	478	458
400.0	38.0	33.4	63.4	89.1	60.4	86.1	25.4	55.7	22.4	52.7	42.0	68.1	39.0	65.1	17.3	27.3	478	458
550.0	45.0	37.2	61.3	87.3	58.3	84.3	16.3	50.1	13.3	47.1	39.2	66.2	36.2	63.1	17.3	27.3	478	458
600.0	47.1	42.5	60.7	86.1	57.7	83.1	13.6	43.6	10.6	40.6	38.4	60.0	35.4	57.0	17.3	27.3	477	458
800.0**	54.9	48.2	58.9	83.1	55.9	80.1	3.9	34.9	0.9	31.9	35.9	52.1	32.9	49.1	16.1	27.3	477	457
900.0**	58.5	53.8	58.1	82.0	55.1	79.0	-0.4	28.2	-3.4	25.2	34.9	48.0	31.9	45.0	15.5	25.0	477	456
1000.0**	61.9	57.5	57.4	81.0	54.4	78.0	-4.5	23.5	-7.5	20.5	34.0	46.0	31.0	43.0	15.1	24.0	477	456

**Values below 4 MHz are informational only.*
***Values for IEC 61156-5 above 600 MHz are for information only*

All performance based on 100 metres.

RELATED PRODUCTS Cable Preparation Tool page 111

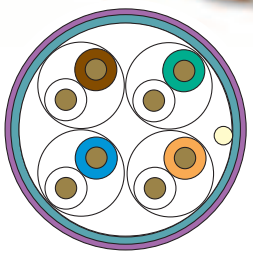
TERA F/FTP 600
4-PAIR SOLID ROUND CABLE — INTERNATIONAL

10G ip 7

COMPLIANCE
- ISO/IEC 11801:2002 (Category 7)
- IEC 61156-5:2002 (Category 7)
- LS0H: IEC 60332-1, IEC 60754, and IEC 61034

PART #	DESCRIPTION
9N7L4-E6	LS0H (IEC 60332-1), Violet Jacket, 305m Reel
9N7L4-E6-5CR	LS0H (IEC 60332-1), Violet Jacket, 500m Reel
9N7L4-E6-1KR	LS0H (IEC 60332-1), Violet Jacket, 1000m Reel

CABLE CONSTRUCTION
- F/FTP
- 0.57mm (23 AWG) solid bare copper
- 8.4mm max jacket diameter
- Pairs individually shielded with aluminium-polyester foil
- Overall aluminium/polyester foil tape



ELECTRICAL SPECIFICATIONS

DC Resistance	<17.0 Ω/100m
DC Resistance Unbalance	2%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1-100 MHz: 100 ± 15% 100-250 MHz: 100 ± 22% 250-600 MHz: 100± 22%
NVP	80%
LCL	40-10 x log(f)dB
Delay Skew	≤20ns

PHYSICAL PROPERTIES

	LS0H
Pulling Tension (max)	110N
Bend Radius (min)	50mm
Installation Temperature	0 to 60°C
Storage Temperature	-20 to 75°C
Operating Temperature	-20 to 60°C

TRANSMISSION PERFORMANCE

IEC 61156-5 SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0*	2.0	1.7	78.0	100.0	75.0	97.0	76.0	98.3	73.0	95.3	78.0	90.0	75.0	87.0	20.0	30.0	570	492
4.0	3.7	3.4	78.0	100.0	75.0	97.0	74.3	96.6	71.3	93.6	78.0	90.0	75.0	87.0	23.0	33.0	552	474
10.0	5.9	5.0	78.0	100.0	75.0	97.0	72.1	95.0	69.1	92.0	74.0	90.0	71.0	87.0	25.0	35.0	545	467
16.0	7.4	6.4	78.0	100.0	75.0	97.0	70.6	93.6	67.6	90.6	69.9	90.0	66.9	87.0	25.0	35.0	543	465
20.0	8.3	7.1	78.0	100.0	75.0	97.0	69.7	92.9	66.7	89.9	68.0	90.0	65.0	87.0	25.0	35.0	542	464
31.25	10.4	9.0	78.0	100.0	75.0	97.0	67.6	91.0	64.6	88.0	64.1	90.0	61.1	87.0	23.6	33.6	540	462
62.5	14.9	13.0	75.5	100.0	72.5	97.0	60.6	87.0	57.6	84.0	58.1	85.0	55.1	82.0	21.5	31.5	539	461
100.0	19.0	16.8	72.4	98.0	69.4	95.0	53.4	81.2	50.4	78.2	54.0	81.0	51.0	78.0	20.1	30.1	538	460
200.0	27.5	23.9	67.9	93.0	64.9	90.0	40.4	69.1	37.4	66.1	48.0	77.0	45.0	74.0	18.0	28.0	537	459
250.0	31.0	28.5	66.4	92.1	63.4	89.1	35.5	63.6	32.5	60.6	46.0	76.0	43.0	73.0	17.3	27.3	536	458
300.0	34.2	29.2	65.2	91.0	62.2	88.0	31.1	61.8	28.1	58.8	44.5	71.0	41.5	68.0	17.3	27.3	536	458
350.0	37.2	31.8	64.2	90.3	61.2	87.3	27.1	58.5	24.1	55.5	43.1	69.0	40.1	66.0	17.3	27.3	536	458
400.0	40.0	33.4	63.4	89.1	60.4	86.1	23.4	55.7	20.4	52.7	42.0	68.1	39.0	65.1	17.3	27.3	536	458
550.0	47.7	37.2	61.3	87.3	58.3	84.3	13.6	50.1	10.6	47.1	39.2	66.2	36.2	63.1	17.3	27.3	536	458
600.0	50.1	42.5	60.7	86.1	57.7	83.1	10.6	43.6	7.6	40.6	38.4	60.0	35.4	57.0	17.3	27.3	536	458

**Values below 4 MHz are informational only.*

All performance based on 100 metres.

RELATED PRODUCTS Cable Preparation Tool page 111

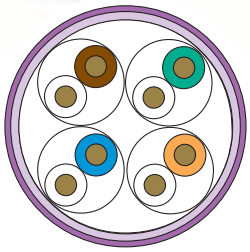
TERA S/FTP 1200
4-PAIR SOLID ROUND CABLE — INTERNATIONAL

10G ip™ 7

COMPLIANCE
- ISO/IEC 11801:2002 (Category 7)
- ISO/IEC 15018 BCT Channel Application
- IEC 61156-7:2003
- IEC 61156-5:2002 (Category 7)
- LS0H: IEC 60332-1, IEC 60754, and IEC 61034

CABLE CONSTRUCTION
- S/FTP
- 0.64mm (22 AWG) solid bare copper
- 8.4mm max jacket diameter
- Pairs individually shielded with aluminium-polyester foil
- Overall tinned copper braid

PART #	DESCRIPTION
9T7L4-E12	LS0H (IEC 60332-1), Violet Jacket, 305m Reel
9T7L4-E12-5CR	LS0H (IEC 60332-1), Violet Jacket, 500m Reel
9T7L4-E12-1KR	LS0H (IEC 60332-1), Violet Jacket, 1000m Reel



ELECTRICAL SPECIFICATIONS

DC Resistance	<17.0 Ω/100m
DC Resistance Unbalance	2%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1-100 MHz: 100 ± 15% 100-250 MHz: 100 ± 22% 250-1200 MHz: 100± 22%
NVP	80%
LCL	40-10 x log(*f*)dB
Delay Skew	≤25ns

PHYSICAL PROPERTIES

	LS0H
Pulling Tension (max)	110N
Bend Radius (min)	50mm
Installation Temperature	0 to 60°C
Storage Temperature	-20 to 75°C
Operating Temperature	-20 to 60°C

TRANSMISSION PERFORMANCE

IEC 61156-7 SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0*	1.9	1.6	78.0	105.0	75.0	102.0	76.1	103.0	73.1	100.0	77.0	96.0	75.0	94.0	20.0	31.0	536	512
4.0	3.5	3.0	78.0	105.0	75.0	102.0	74.6	102.0	71.6	99.0	77.0	96.0	75.0	94.0	23.0	34.0	518	494
10.0	5.4	4.9	78.0	105.0	75.0	102.0	72.6	100.0	69.6	97.0	74.0	96.0	71.0	94.0	25.0	35.0	511	487
16.0	6.8	6.3	78.0	105.0	75.0	102.0	71.2	99.0	68.2	96.0	70.0	96.0	67.0	94.0	25.0	35.0	509	485
20.0	7.6	7.0	78.0	105.0	75.0	102.0	70.3	98.0	67.4	95.0	68.0	96.0	65.0	94.0	25.0	35.0	508	484
31.25	9.6	8.9	78.0	105.0	75.0	102.0	68.5	96.0	65.5	93.0	64.0	93.0	61.0	91.0	23.6	34.0	506	482
62.5	13.7	12.8	78.0	105.0	75.0	102.0	64.3	92.0	61.3	89.0	58.0	88.0	55.0	86.0	21.5	32.0	505	481
100.0	17.5	16.5	76.0	105.0	73.0	102.0	58.5	89.0	55.5	86.0	54.0	82.0	51.0	80.0	20.1	31.0	504	480
200.0	25.3	23.5	71.0	102.0	68.0	100.0	46.2	79.0	43.2	77.0	48.0	78.0	45.0	75.0	18.0	29.0	503	479
250.0	28.5	28.2	70.0	102.0	67.0	100.0	41.5	74.0	38.5	72.0	46.0	75.0	43.0	70.0	17.3	28.0	502	502
300.0	31.5	28.9	69.0	102.0	66.0	97.0	37.3	73.0	34.3	68.0	44.0	70.0	41.0	68.0	17.3	28.0	502	478
350.0	34.3	31.5	68.0	100.0	65.0	97.0	33.6	69.0	30.6	66.0	43.0	70.0	40.0	63.0	17.3	28.0	502	478
400.0	36.9	33.1	67.0	95.0	64.0	93.0	30.1	62.0	27.1	60.0	42.0	66.0	39.0	59.0	17.3	28.0	502	478
550.0	44.1	40.2	65.0	95.0	62.0	93.0	20.8	55.0	17.8	53.0	39.0	60.0	36.0	56.0	17.3	28.0	502	478
600.0	46.3	41.7	64.0	95.0	61.0	93.0	18.0	53.0	15.0	51.0	38.0	55.0	35.0	53.0	17.3	28.0	502	478
800.0	54.5	47.6	62.0	90.0	59.0	87.0	7.9	42.0	4.9	39.0	36.0	47.0	33.0	44.0	16.1	28.0	501	477
1000.0	62.0	54.5	61.0	85.0	58.0	83.0	-1.0	31.0	-4.0	29.0	34.0	40.0	31.0	38.0	15.1	27.0	501	477
1200.0	69.0	59.8	60.0	80.0	57.0	77.0	-9.2	20.0	-12.2	17.0	32.0	35.0	29.0	33.0	14.3	27.0	501	477

**Values below 4 MHz are informational only.*

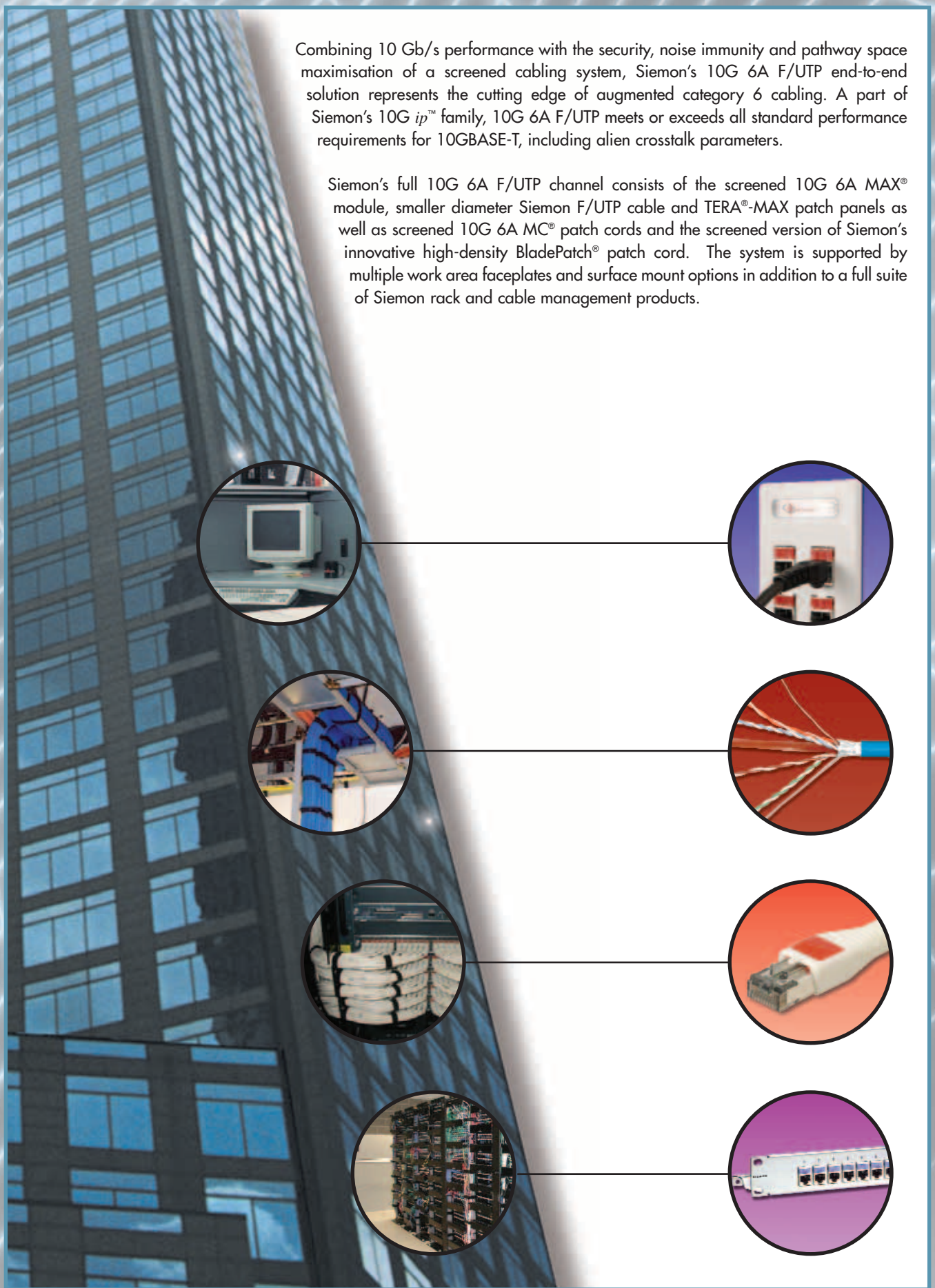
All performance based on 100 metres.

RELATED PRODUCTS Cable Preparation Tool page 111

10G 6A™ F/UTP SYSTEM PRODUCTS

Combining 10 Gb/s performance with the security, noise immunity and pathway space maximisation of a screened cabling system, Siemon's 10G 6A F/UTP end-to-end solution represents the cutting edge of augmented category 6 cabling. A part of Siemon's 10G *ip*™ family, 10G 6A F/UTP meets or exceeds all standard performance requirements for 10GBASE-T, including alien crosstalk parameters.

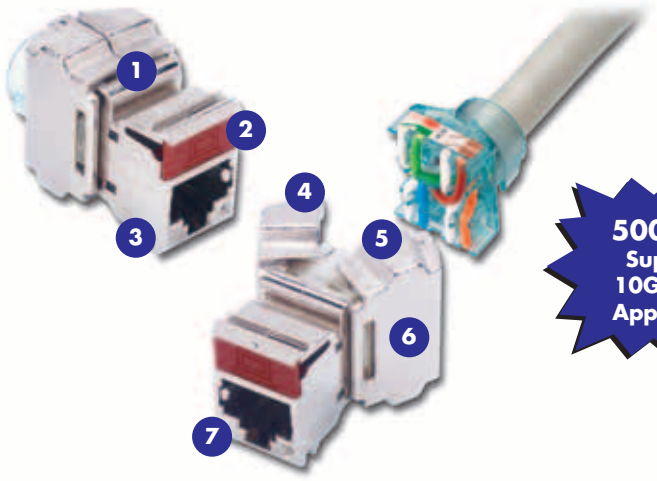
Siemon's full 10G 6A F/UTP channel consists of the screened 10G 6A MAX® module, smaller diameter Siemon F/UTP cable and TERA®-MAX patch panels as well as screened 10G 6A MC® patch cords and the screened version of Siemon's innovative high-density BladePatch® patch cord. The system is supported by multiple work area faceplates and surface mount options in addition to a full suite of Siemon rack and cable management products.



10G 6A F/UTP SCREENED MAX® MODULES

10G ip™

The screened MAX module is the cornerstone of our high performance screened cabling systems. As part of a complete 10G 6A F/UTP system, these easily terminated modules meet or exceed all 10GBASE-T performance requirements including alien crosstalk.



500 MHz Supports 10GBASE-T Application

1. **Fully Screened** — Design optimises shield effectiveness for protection from EMI and alien crosstalk
2. **Easy Identification** — Coloured icons provide port identification
3. **Variety** — Angled, flat and keystone outlets available
4. **Rear Shield Protection** — Robust rear shield protects IDC terminations and maintains shield effectiveness
5. **Easy Termination** — Tool-less termination makes termination quick and easy in less than 3 minutes
6. **Universal Compatibility** — Compatible with both T568A/B schemes
7. **Integrated Grounding** — No separate grounding tabs required

DECREASED TERMINATION TIME
10G 6A F/UTP screened MAX modules can be terminated in less than three minutes.

FOR THE DATA CENTRE AND WORK AREA
10G 6A F/UTP screened MAX is designed for use with both TERA-MAX patch panels and 10G MAX faceplates.

QUICK-GROUND™ TERMINATION
No additional steps required for termination. Cable shield is automatically terminated within the outlet without additional steps or tools.

10G 6A F/UTP SCREENED MAX MODULES

PATENTED

Beyond 10G 6A performance, the screened MAX module is packed with time saving features. Our innovative tool-less design allows all 4 pairs to be mass terminated with a pair of channel locks. Use our patented cable preparation tool (CPT-RGTP) and the end result is an outlet that can be terminated quickly and easily while maintaining a full shielded connection for better Electromagnetic Compatibility (EMC) performance. Outlets terminate all shielded and foiled cable constructions with 22 – 24 AWG (0.64 – 0.51mm) solid and 26 AWG (0.48mm) stranded conductors.

10GMX-FS .....
Flat screened 10G 6A MAX module, T568A/B

10GMX-S .....
Angled screened 10G 6A MAX module, T568A/B

10GMX-KS .....
Keystone screened 10G 6A MAX module, T568A/B

Modules include one red and one blue icon.
Note: Keystone version is designed for integration with various international mounting products and is not compatible with MAX mounting hardware.
Doors available separately.

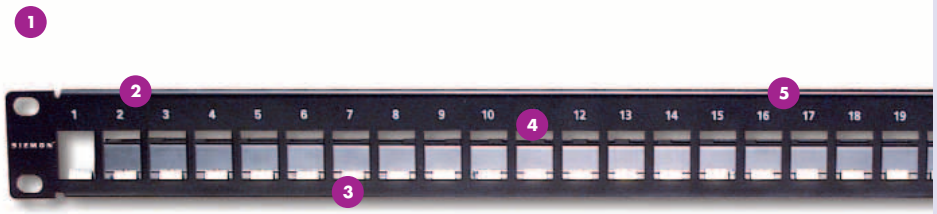
TECHNICAL TIP!
Screened MAX modules are not side-stackable in standard MAX faceplates. 10G MAX faceplates are recommended.

RELATED PRODUCTS 10G MAX Modular and CT® Faceplates pages 98-102, AllPrep™ Cable Preparation Tool page 111

TERA®-MAX® PATCH PANELS

10G ip™

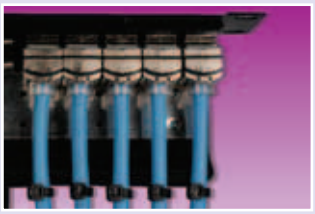
TERA-MAX 19 inch patch panels provide outstanding performance and reliability in a shielded, high-density modular solution. As outlets are snapped into place, resilient ground tabs assure that each outlet and cable is properly grounded for maximum protection from outside interference. No secondary outlet grounding operations are required, reducing overall installation time. Built-in cable management and strain relief are integrated onto the rear of panel.



1. **Standard Fit** — Panels can be mounted directly on standard 19 inch rack or cabinet
2. **Durable** — Lightweight, high strength steel with black or metallic finish
3. **High Density** — 24 10Gb/s ports in just 1 U
4. **Installation Friendly** — Individual modules easily snap into place, providing integrated grounding without additional steps
5. **Port Identification** — Bold port numbering enables quick identification of outlets

INTEGRATED GROUNDING
Panels feature integrated grounding via resilient ground tabs automatically engaged during MAX module insertion.

SLIM DESIGN
Use flat screened MAX modules in TERA-MAX patch panel for high density telecommunications room applications.



CABLE MANAGEMENT
Integral rear cable manager facilitates the orderly routing of horizontal cables as well as maintaining proper bend radius for optimum performance.

TERA-MAX PATCH PANELS

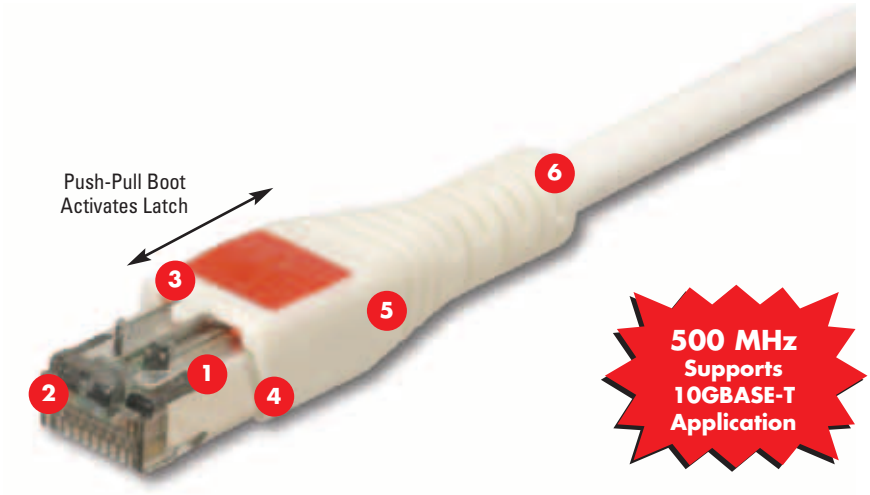
PART #	DESCRIPTION	U
TM-PNL-16-01	16-port TERA-MAX panel, black	1
TM-PNL-16	16-port TERA-MAX panel, metallic	1
TM-PNL-24-01	24-port TERA-MAX panel, black	1
TM-PNL-24	24-port TERA-MAX panel, metallic	1

Panels include designation labels, cable ties and mounting hardware.
Note: 1 U = 44.5mm

10G 6A F/UTP SCREENED BLADEPATCH® MODULAR CORDS

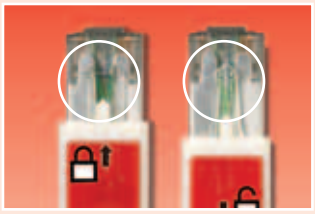
10G ip™

Siemon's 10G 6A F/UTP screened BladePatch patch cord offers a unique augmented category 6 solution for high-density patching environments. It features an innovative push-pull boot design to control the latch, enabling easy access and removal of the cord in tight-fitting areas. The BladePatch cord is ideal for patching high density blade servers, patch panels, or any equipment with RJ-45 outlets.



1. **Revolutionary Design** — Patented push-pull latch design eliminates need to defeat thumb latch used in standard modular plug designs. Enables easy access and removal in high density patching environments
2. **Universal Wiring** — Compatible with T568A/B wiring schemes
3. **Snagless** — Push-pull design eliminates external thumb latch which can snag and break
4. **Low Profile Boot Design** — Optimises side-stackability of patch cords and allows use in even the most dense equipment
5. **High Performance** — 10G 6A cords feature category 7 S/FTP stranded cable for optimal transmission performance while eliminating alien crosstalk
6. **Backwards Compatible** — With category 5e/class D and category 6/class E systems and components

UNIVERSAL COMPATIBILITY
Fits within any standard RJ-45 outlet.



REVOLUTIONARY LATCH
Simply push the boot forward to latch into the outlet and pull back to release.

HIGH DENSITY
The push-pull design enables easy access and removal via the boot in tight-fitting areas.

10G 6A F/UTP SCREENED BLADEPATCH MODULAR CORDS

10G ip™ PATENTED

Combine the BladePatch with Siemon's 10G 6A F/UTP screened MAX® modules, cable and TERA®-MAX patch panels for a complete standards compliant 10 Gb/s F/UTP channel solution. This superior 10G 6A screened cabling system delivers unparalleled network performance and supports emerging Internet Protocol (IP) like Voice Over IP (VoIP), IP video and future multi-gigabit applications. These cords are also backwards compatible with lower category connecting hardware.

PART #	DESCRIPTION
10GBPS-(XX)M-(XX)L.	Screened 10G 6A BladePatch, double-ended, 4-pair stranded modular cord with push-pull latching design, colour matching cord/boot, T568A/B, LS0H

Use 1st (XX) to specify cord length: 01 = 1m, 02 = 2m, 03 = 3m, 05 = 5m

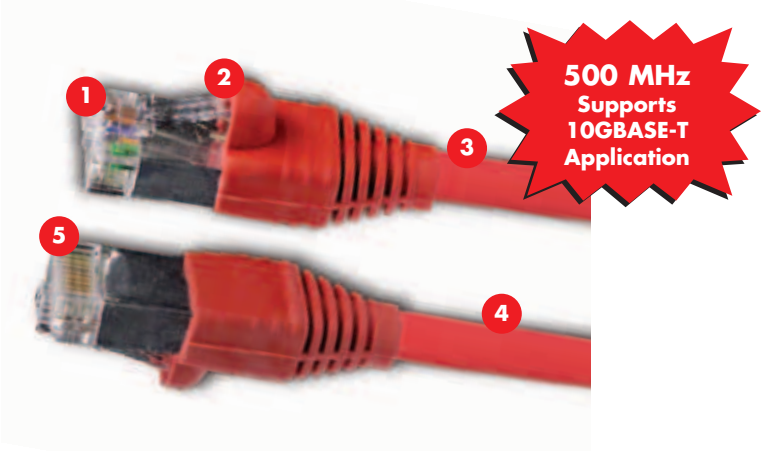
Use 2nd (XX) to specify colour: 01 = black, 02 = white, 03 = red, 04 = grey, 05 = yellow, 06 = blue, 07 = green

(B) Add "B" for bulk project pack of 100 modular cords.

10G 6A F/UTP SCREENED MC® MODULAR PATCH CORDS

10G *ip*™

Siemon uses the highest quality components combined with stringent manufacturing processes to produce the best performing, most durable modular patch cords available. Part of Siemon's 10G *ip*™ Cabling Solution (F/UTP), screened 10G 6A MC patch cords meet or exceed all augmented category 6 performance requirements. The end result is a patch cord that is capable of supporting next generation applications including 10GBASE-T and beyond.



1. **Universal Wiring** — Compatible with T568A/B wiring schemes
2. **Latch Guard** — Boots feature a latch guard to protect plug from snagging when pulling through pathways or cable managers
3. **Backwards Compatible** — With category 5e/class D and category 6/class E systems and components
4. **High Performance** — 10G 6A MC cords feature category 7 S/FTP stranded cable for optimal transmission performance while eliminating alien cross-talk
5. **Superior Quality** — Quality plug components ensure long term resistance to corrosion from humidity, extreme temperatures, and airborne contaminants

TECHNICAL TIP!
Factory terminated and tested modular cords are required to achieve consistent category 6A compatibility. Field termination is not recommended and is not compliant with Siemon warranty.

100% FACTORY-TESTED
Cords are 100% transmission tested to ensure compliance with applicable standards requirements.

COMPLIANCE

- Plug geometry meets TIA-968-A and IEC 60603-7 specifications for modular plugs
- Exceeds ISO/IEC 11801:2002 requirements for transfer impedance, coupling attenuation and shield effectiveness
- Stranded Cable: IEC 61156-6 Compliant
- LSOH Cordage: IEC 60332-1, IEC 60754, and IEC 61034 compliant

EXCELLENT BEND RELIEF
Boot ensures proper bend relief, critical for augmented category 6 performance.

10G 6A F/UTP SCREENED MC MODULAR PATCH CORDS

PATENTED

PART #	DESCRIPTION
10GMCS-(XX)M-(XX)L	Screened 10G 6A, double-ended, 4-pair stranded modular cord, colour matching jacket/boot, T568A/B, LSOH

Use 1st (XX) to specify length: 01 = 1m, 02 = 2m, 03 = 3m, 05 = 5m

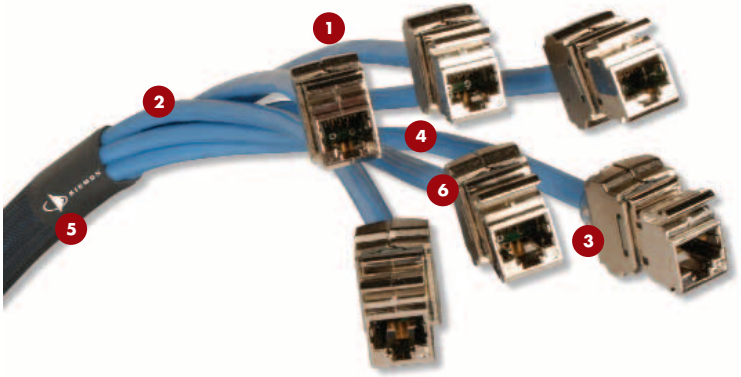
Use 2nd (XX) to specify colour: 01 = black, 02 = white, 03 = red, 04 = grey, 05 = yellow, 06 = blue, 07 = green

Ⓑ *Add "B" to end of part number for bulk project pack of 100 cords.*

10G 6A F/UTP TRUNKING CABLE ASSEMBLIES

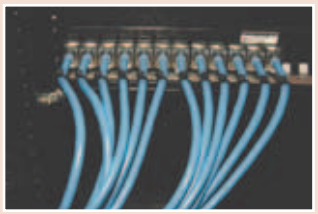
10G ip™

Siemon's 10G 6A F/UTP copper trunking cable assemblies combine the 10Gb/s performance and security of a screened Category 6A solution with the ease and efficiency of a pre-terminated cable assembly. Featuring factory terminated and tested F/UTP MAX® modules and Siemon 10G 6A F/UTP cable, Siemon copper trunking cable assemblies were designed with data centre applications in mind, providing an efficient and cost effective alternative to individual field-terminated components. In addition to providing simple, consistent and aesthetically pleasing cable management, the assemblies allow significantly reduced field installation times. Utilising smaller diameter screened cable, 10G 6A F/UTP trunking assemblies also reclaim pathway space over larger diameter UTP designs.



1. **Proper Orientation** — Each leg is labeled for proper module orientation
2. **Screened Category 6A Cable** — Utilises high quality Siemon 10G 6A F/UTP cable
3. **Factory Terminated and Tested** — Utilises flat 10G 6A F/UTP MAX module, factory terminated and tested for high performance
4. **Identification** — Each cable assembly is coded with a unique identification number for administrative purposes
5. **Breakout Kit** — Unique breakout kit creates optimal cable orientation and limits cable crossing
6. **No Additional Grounding Steps** — 10G 6A F/UTP MAX modules are integrated to panel ground upon insertion into TERA-MAX panels

DATA CENTRES
Ideal for Data Centre installations where raised floor and ladder rack environments accommodate easy installations.



SIMPLE INSTALLATION
Pre-terminated MAX modules snap easily into TERA®-MAX panels.

PROTECTIVE PACKAGING
Each assembly is packaged individually to protect factory terminations.

10G 6A F/UTP TRUNKING CABLE ASSEMBLIES

PATENTED

PART #	DESCRIPTION
6 Leg Trunking Cable Assemblies:	
TERD6E-A7A7(XXX)(X)	10G 6A F/UTP, riser rated (CMR), double ended flat MAX modules, blue jacket, 500MHz
TEPD6E-A7A7(XXX)(X)	10G 6A F/UTP, plenum rated (CMP), double ended flat MAX modules, blue jacket, 500MHz
TELD8E-A7A7(XXX)(X)	10G 6A F/UTP, LS0H rated (IEC 60332-1), double ended flat MAX modules, violet jacket, 500MHz

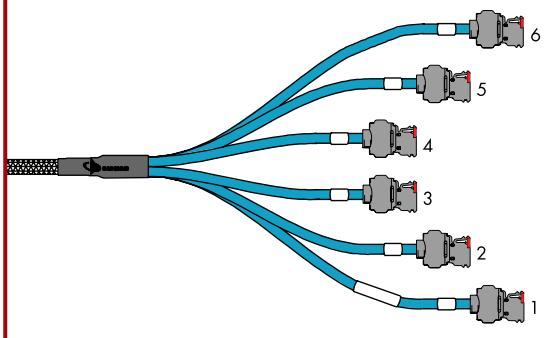
Use (XXX) to specify length:
003-36m in increments of 1 metre
009-120 ft. in increments of 3 feet
Use (X) unit: M = metres, F = feet

Other lengths available upon request.

Note: These products are made to order. Call for lead time and part number availability in your region.

TRIDENT/CENTRE CUT

Description:
Supports left, right or centre exit.



10G 6A F/UTP
4-PAIR SOLID ROUND CABLE — US

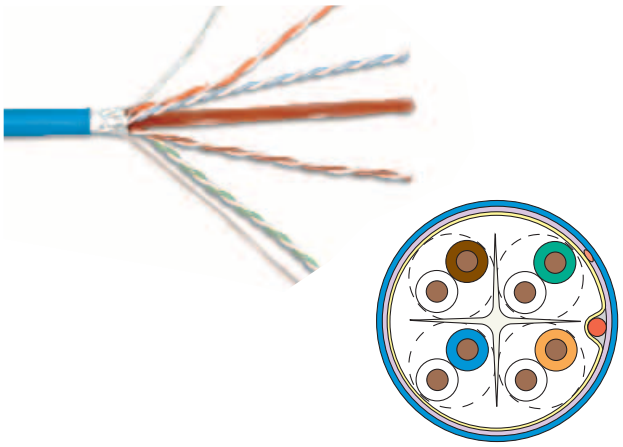
10G ip™

COMPLIANCE
- ISO/IEC 11801:2002 (Category 6)
- ISO/IEC 11801:2002, Amendment 1 (draft)
- TIA/EIA-568-B.2-1
- TIA/EIA-568-B.2-10 (draft)
- IEC 61156-5:2002 (Category 6)
- UL CMR and CSA FT4
- UL CMP and CSA FT6

CABLE CONSTRUCTION
- F/UTP
- 0.57mm (23 AWG) solid bare copper
- 7.4mm max jacket diameter
- Central isolation member
- Shield is an aluminium foil tape enclosing a 0.51mm tinned copper drain wire

PART #	DESCRIPTION
9A6P4-E3-(XX)-R1A	Plenum (CMP, CSA FT6) 305m Reel
9A6R4-E3-(XX)-R1A	Riser (CMR, CSA FT4) 305m Reel

Use (XX) to specify jacket colour:
02 = white, 04 = grey, 05 = yellow, 06 = blue



ELECTRICAL SPECIFICATIONS

DC Resistance	<17.0 Ω/100m
DC Resistance Unbalance	5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1 - 100 MHz: 100 ± 15% 100 - 750 MHz: 100 ± 22%
NVP	CMP—72% CMR— 68%
LCL	30-10 log (*f*/100)dB
Delay Skew	≤ 45ns

PHYSICAL PROPERTIES

	CMP	CMR
Pulling Tension (max)	110N	110N
Bend Radius (min)	50mm	50mm
Installation Temperature	0 to 60°C	-36 to 60°C
Storage Temperature	-20 to 75°C	-34 to 75°C
Operating Temperature	-20 to 60°C	-34 to 60°C

TRANSMISSION PERFORMANCE

GUARANTEED WORST CASE SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0	2.0	1.8	74.3	86.0	72.3	82.3	72.3	84.2	70.3	80.5	67.8	91.0	64.8	85.0	20.0	33.0	570	545
4.0	3.8	3.4	65.3	77.0	63.3	73.3	61.5	73.6	59.5	69.9	55.8	79.0	52.8	73.0	23.0	35.5	552	527
10.0	6.0	5.4	59.3	71.0	57.3	67.3	53.3	65.6	51.3	61.9	47.8	71.0	44.8	65.0	25.0	38.0	545	520
16.0	7.6	6.9	56.2	68.0	54.2	64.2	48.7	61.1	46.7	57.3	43.7	67.0	40.7	61.0	25.0	35.2	543	518
20.0	8.5	7.7	54.8	67.0	52.8	62.8	46.3	59.3	44.3	55.1	41.8	65.0	38.8	59.0	25.0	35.0	542	517
31.25	10.7	9.9	51.9	64.0	49.9	59.9	41.2	54.1	39.2	50.0	37.9	61.0	34.9	55.0	23.6	33.1	540	515
62.5	15.4	14.3	47.4	59.0	45.4	55.4	32.0	44.7	30.0	41.1	31.9	55.0	28.9	49.0	21.5	32.2	539	514
100.0	19.8	18.1	44.3	56.0	42.3	52.0	24.5	37.9	22.5	33.9	27.8	51.0	24.8	45.0	20.1	31.6	538	513
200.0	29.0	27.3	39.8	52.0	37.8	47.8	10.8	24.7	8.8	20.5	21.8	45.0	18.8	39.0	18.0	29.8	537	512
250.0	32.8	31.1	38.3	50.0	36.3	46.0	5.5	18.9	3.5	14.9	19.8	43.0	16.8	37.0	17.3	28.7	536	511
300.0	36.4	35.0	37.1	49.0	35.1	45.0	0.7	14.0	-1.3	10.0	18.3	38.0	15.3	35.0	16.8	28.0	536	511
400.0	43.0	40.0	35.3	47.0	33.3	43.0	-7.7	7.0	-9.7	3.0	15.8	36.0	12.8	33.0	15.9	27.1	536	511
500.0	48.9	42.0	33.8	47.0	31.8	42.0	-15.1	5.0	-17.1	0.0	13.8	34.0	10.8	32.0	15.2	26.0	536	510
550.0*	51.8	43.0	33.2	46.0	31.2	42.0	-18.6	3.0	-20.6	-1.0	13.0	33.0	10.0	31.0	14.9	26.0	536	510
625.0*	55.8	44.9	32.4	46.0	30.4	41.0	-23.5	1.1	-25.5	-3.9	11.9	33.0	8.9	29.0	14.5	25.0	535	505
750.0*	62.3	49.0	31.2	45.0	29.2	41.0	-31.1	-4.0	-33.1	-8.0	10.3	32.0	7.3	27.0	14.0	25.0	535	504

**Performance for frequencies beyond TIA and ISO requirements are for information only.*

All performance based on 100 metres.

RELATED PRODUCTS Cable Preparation Tool page 111

10G 6A F/UTP
4-PAIR SOLID ROUND CABLE — INTERNATIONAL

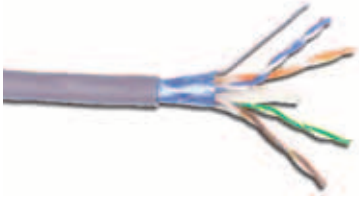
10G ip™

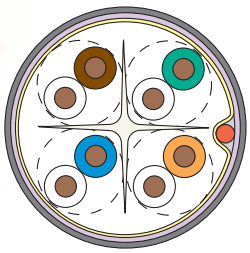
COMPLIANCE
- ISO/IEC 11801:2002 (Category 6)
- ISO/IEC 11801:2002, Amendment 1 (draft)
- TIA/EIA-568-B.2-1
- TIA/EIA-568-B.2-10 (draft)
- IEC 61156-5:2002 (Category 6)
- LS0H: IEC 60332-1, IEC 60754 and IEC 61034
- UL CMX
- UL CM
- UL CMR and CSA FT4

CABLE CONSTRUCTION
- F/UTP
- 0.57mm (23 AWG) solid bare copper
- 7.4mm max jacket diameter
- Central isolation member
- Shield is an aluminium foil tape enclosing a 0.51mm tinned copper drain wire

PART #	DESCRIPTION
9A6R4-E3	PVC (CMR, CSA FT4, Riser), Blue Jacket, 305m Reel
9A6M4-E3	PVC (CM, IEC 60332-1), Grey Jacket, 305m Reel
9A6X4-E3	PVC (CMX, IEC 60332-1), Grey Jacket, 305m Reel
9A6L4-E3	LS0H (IEC 60332-1), Violet Jacket, 305m Reel

Other cable lengths also available:
Add "-5CR for 500m Reel, "-1KR for 1000m Reel.





ELECTRICAL SPECIFICATIONS

DC Resistance	<17.0 Ω/100m
DC Resistance Unbalance	5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1 - 100 MHz: 100 ± 15% 100 - 750 MHz: 100 ± 22%
NVP	CMP—72% CMR— 68%
LCL	30-10 log (*f*/100)dB
Delay Skew	≤ 45ns

PHYSICAL PROPERTIES

	CMP/LS0H	CMR/CM/CMX
Pulling Tension (max)	110N	110N
Bend Radius (min)	50mm	50mm
Installation Temperature	0 to 60°C	-36 to 60°C
Storage Temperature	-20 to 75°C	-34 to 75°C
Operating Temperature	-20 to 60°C	-34 to 60°C

TRANSMISSION PERFORMANCE

TIA/EIA & ISO/IEC SIEMON TYPICAL

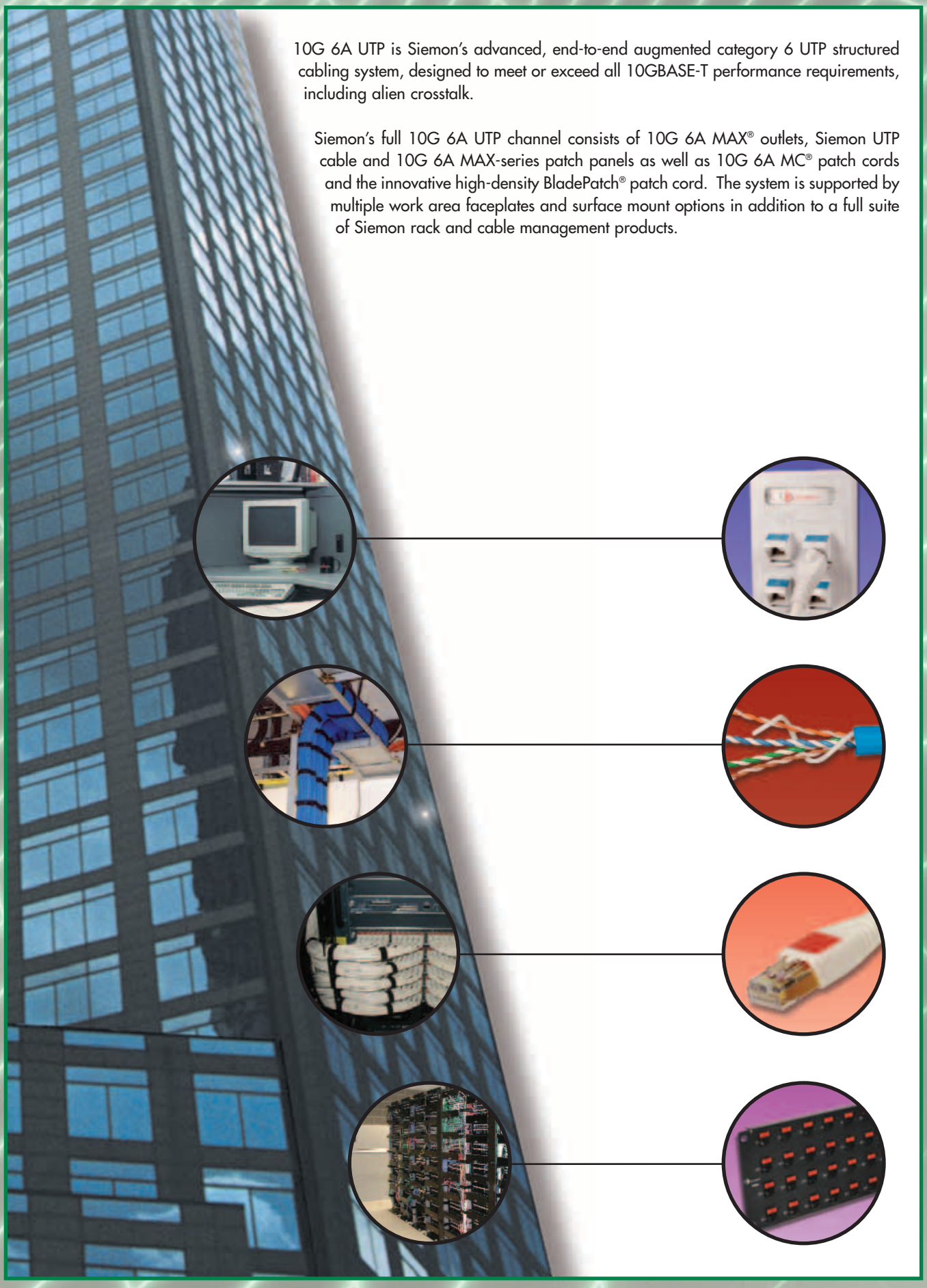
Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0	2.0	1.8	74.3	86.0	72.3	82.3	72.3	84.2	70.3	80.5	67.8	91.0	64.8	85.0	20.0	33.0	570	545
4.0	3.8	3.4	65.3	77.0	63.3	73.3	61.5	73.6	59.5	69.9	55.8	79.0	52.8	73.0	23.0	35.5	552	527
10.0	6.0	5.4	59.3	71.0	57.3	67.3	53.3	65.6	51.3	61.9	47.8	71.0	44.8	65.0	25.0	38.0	545	520
16.0	7.6	6.9	56.2	68.0	54.2	64.2	48.7	61.1	46.7	57.3	43.7	67.0	40.7	61.0	25.0	35.2	543	518
20.0	8.5	7.7	54.8	67.0	52.8	62.8	46.3	59.3	44.3	55.1	41.8	65.0	38.8	59.0	25.0	35.0	542	517
31.25	10.7	9.9	51.9	64.0	49.9	59.9	41.2	54.1	39.2	50.0	37.9	61.0	34.9	55.0	23.6	33.1	540	515
62.5	15.4	14.3	47.4	59.0	45.4	55.4	32.0	44.7	30.0	41.1	31.9	55.0	28.9	49.0	21.5	32.2	539	514
100.0	19.8	18.1	44.3	56.0	42.3	52.0	24.5	37.9	22.5	33.9	27.8	51.0	24.8	45.0	20.1	31.6	538	513
200.0	29.0	27.3	39.8	52.0	37.8	47.8	10.8	24.7	8.8	20.5	21.8	45.0	18.8	39.0	18.0	29.8	537	512
250.0	32.8	31.1	38.3	50.0	36.3	46.0	5.5	18.9	3.5	14.9	19.8	43.0	16.8	37.0	17.3	28.7	536	511
300.0	36.4	35.0	37.1	49.0	35.1	45.0	0.7	14.0	-1.3	10.0	18.3	38.0	15.3	35.0	16.8	28.0	536	511
400.0	43.0	40.0	35.3	47.0	33.3	43.0	-7.7	7.0	-9.7	3.0	15.8	36.0	12.8	33.0	15.9	27.1	536	511
500.0	48.9	42.0	33.8	47.0	31.8	42.0	-15.1	5.0	-17.1	0.0	13.8	34.0	10.8	32.0	15.2	26.0	536	510
550.0*	51.8	43.0	33.2	46.0	31.2	42.0	-18.6	3.0	-20.6	-1.0	13.0	33.0	10.0	31.0	14.9	26.0	536	510
625.0*	55.8	44.9	32.4	46.0	30.4	41.0	-23.5	1.1	-25.5	-3.9	11.9	33.0	8.9	29.0	14.5	25.0	535	505
750.0*	62.3	49.0	31.2	45.0	29.2	41.0	-31.1	-4.0	-33.1	-8.0	10.3	32.0	7.3	27.0	14.0	25.0	535	504

**Performance for frequencies beyond TIA and ISO requirements are for information only.*

All performance based on 100 metres.

RELATED PRODUCTS Cable Preparation Tool page 111

10G 6A™ UTP SYSTEM PRODUCTS



10G 6A UTP is Siemon's advanced, end-to-end augmented category 6 UTP structured cabling system, designed to meet or exceed all 10GBASE-T performance requirements, including alien crosstalk.

Siemon's full 10G 6A UTP channel consists of 10G 6A MAX® outlets, Siemon UTP cable and 10G 6A MAX-series patch panels as well as 10G 6A MC® patch cords and the innovative high-density BladePatch® patch cord. The system is supported by multiple work area faceplates and surface mount options in addition to a full suite of Siemon rack and cable management products.

10G 6A UTP MAX® MODULES

10G ip™

Part of Siemon's 10G 6A UTP end-to-end cabling solution, 10G 6A UTP MAX modules meet or exceed all augmented category 6 performance requirements for support of the 10GBASE-T application standard. This superior level of performance is achieved via an enhanced circuit board design, optimisation of jack pin geometry, and stringent inspection and quality control procedures.

1. **Flexible Installation** — Install from either front or rear of faceplate
2. **Easy Termination** — Terminates with standard 110 termination tools
3. **Quick Identification** — Icons provided for port identification
4. **Backward Compatible** — With category 6/class E and category 5e/class D systems and components
5. **Universal Wiring** — T568A and T568B wiring compatible
6. **Protective Doors** — Minimise exposure to dust and other contaminants *(not shown)*

REVOLUTIONARY PCB TUNING
Circuit board is tuned and balanced using our patent-pending Phase-Delay™ technology to maximise performance to 500 MHz.

QUICK INSTALLATION
Pyramid wire entry system on S310® blocks separates paired conductors when lacing cables to simplify and reduce installation time.

SUPERIOR PERFORMANCE
For superior performance, use 10G 6A modular cords with 10G 6A MAX modules.

10G 6A UTP MAX MODULES

PATENTED

10GMX-(XX) . . . . . .
Angled module, T568A/B,
rear strain relief cap and protective
colour-matching rubber door

10GMX-F(XX) . . . . . .
Flat module, T568A/B,
rear strain relief cap

10GMX-K(XX). . . . . .
Keystone module, T568A/B,
rear strain relief cap

Use (XX) to specify colour: 01 = black, 02 = white, 03 = red, 04 = grey, 05 = yellow, 06 = blue, 07 = green, 09 = orange, 20 = ivory, 25 = bright white, 80 = light ivory, 82 = alpine white

Angled modules include one colour-matching, one red, and one blue icon.
Door colour is clear for red, yellow, blue and orange angled modules.

Flat modules include one colour-matching, one red, and one blue icon.
Add "-D" for optional colour-matching door. Door colour is white for red, yellow, blue, green, and orange modules.

Keystone version is designed for integration with various international mounting products and is not compatible with MAX mounting hardware.

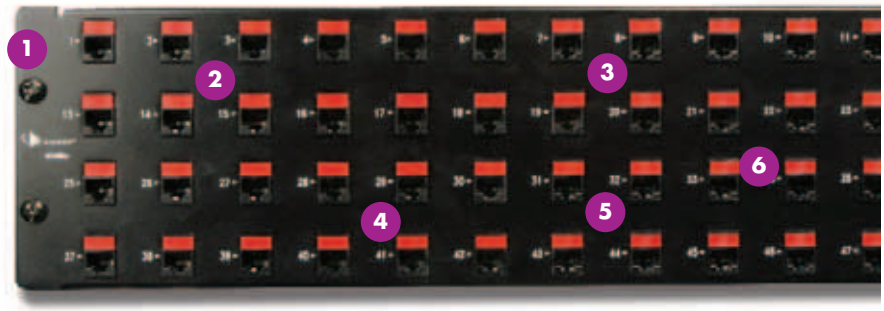
Ⓑ *Add "B" to end of part number for bulk project pack of 100 modules (angled and flat modules include icons).*

RELATED PRODUCTS 10G MAX Modular Faceplates pages 98-99

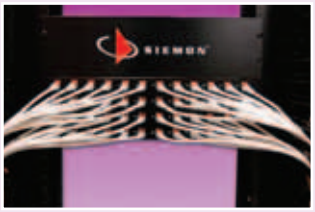
10G 6A UTP MAX® PATCH PANELS

10G ip™

The 10G 6A UTP MAX patch panel provides a rack mount solution enabling augmented category 6 performance in a reliable and flexible modular solution. Available in 24- and 48-port configurations, the 10G 6A patch panel's optimised port spacing ensures alien crosstalk performance.

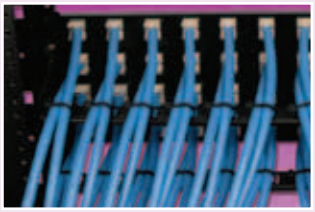


1. **Standard Fit** — Panels can be mounted directly on standard 19 inch rack or cabinet
2. **Aesthetics** — Black anodised finish and rolled edges provide a pleasing appearance
3. **Optimised for 10Gb/s** — Port spacing limits the effects of alien crosstalk
4. **Port Identification** — Bold port numbering enables quick identification of outlets
5. **Cable Management** — Panels feature rigid rack mount rear cable managers for easy routing and bend radius control.
6. **Modular Design** — Ports may be partially populated as needed for cost savings



SIMPLE PATCH CORD ROUTING
Port spacing eliminates need for additional horizontal cable management, saving valuable rack space.

PORT IDENTIFICATION
Removable designation labels, included, enable proper circuit identification for each port.



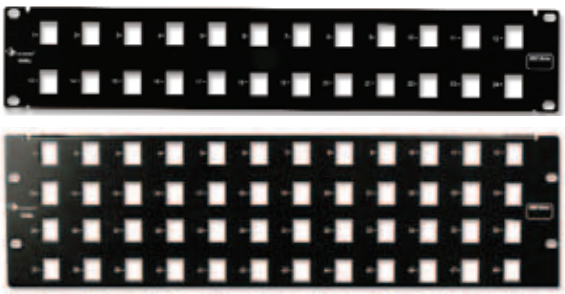
REAR CABLE MANAGEMENT
Rear cable management bar included for neatly routing horizontal cables to terminations.

10G 6A UTP MAX PATCH PANELS

PATENTED

As part of Siemon's end-to-end 10G 6A system channel, this panel supports system performance specified by 10GBASE-T standards.

PART #	DESCRIPTION	U
10GMX-PNL-24	24-port 10G 6A UTP MAX panel	2
10GMX-PNL-48	48-port 10G 6A UTP MAX panel	3

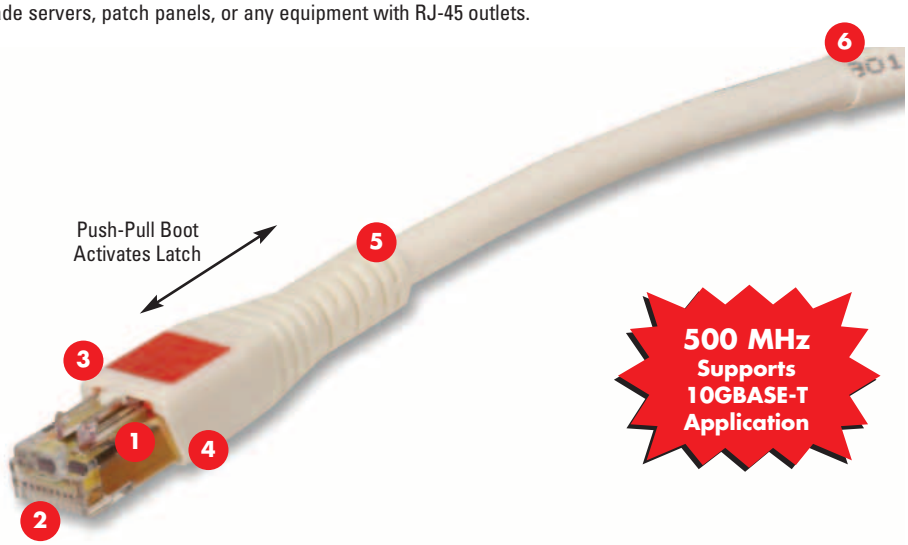


Panels include rear cable manager(s), designation labels, cable ties, and mounting hardware.
flat 10G 6A MAX modules available separately.
Note: 1 U = 44.5mm

10G 6A UTP BLADEPATCH® MODULAR CORDS

10G ip™

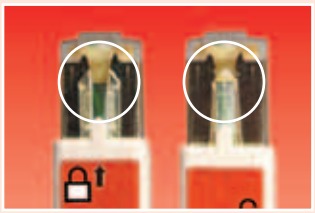
Siemon's 10G 6A UTP BladePatch patch cord offers a unique augmented category 6 solution for high-density patching environments. It features an innovative push-pull boot design to control the latch, enabling easy access and removal of the cord in tight-fitting areas. The BladePatch cord is ideal for patching high density blade servers, patch panels, or any equipment with RJ-45 outlets.



500 MHz Supports 10GBASE-T Application

1. **Revolutionary Design** — Patented push-pull latch design eliminates need to defeat thumb latch used in standard modular plug designs. Enables easy access and removal in high density patching environments
2. **Universal Wiring** — Compatible with T568A/B wiring schemes
3. **Snagless** — Push-pull design eliminates external thumb latch which can snag and break
4. **Low Profile Boot Design** — Optimises side-stackability of patch cords and facilitates use in equipment with extremely high port density
5. **Optimised Bend Radius** — Patent pending design removes outer jacket layer at plug ends to improve bend radius and flexibility
6. **High Performance** — 10G 6A cords feature dual jacket construction for excellent alien crosstalk performance

UNIVERSAL COMPATIBILITY
Fits within any standard RJ-45 outlet.



REVOLUTIONARY LATCH
Simply push the boot forward to latch into the outlet and pull back to release.

HIGH DENSITY
The push-pull design enables easy access and removal via the boot in tight-fitting areas.

10G 6A UTP BLADEPATCH MODULAR CORDS

PATENTED

Combine the BladePatch with Siemon's new 10G 6A UTP MAX® modules, patch panels and cable for a complete augmented category 6 channel solution, meeting or exceeding all 10GBASE-T requirements including alien crosstalk.

PART #	DESCRIPTION
BP6A-(XX)-(XX)	10G 6A BladePatch double ended, 4-pair UTP stranded modular cord with push-pull latching design, colour matching cord/boot, T568A/B, CMG

Use 1st (XX) to specify cord length: 03 = 0.9m, 05 = 1.5m, 07 = 2.1m, 10 = 3.1m, 15 = 4.6m, 20 = 6.1m

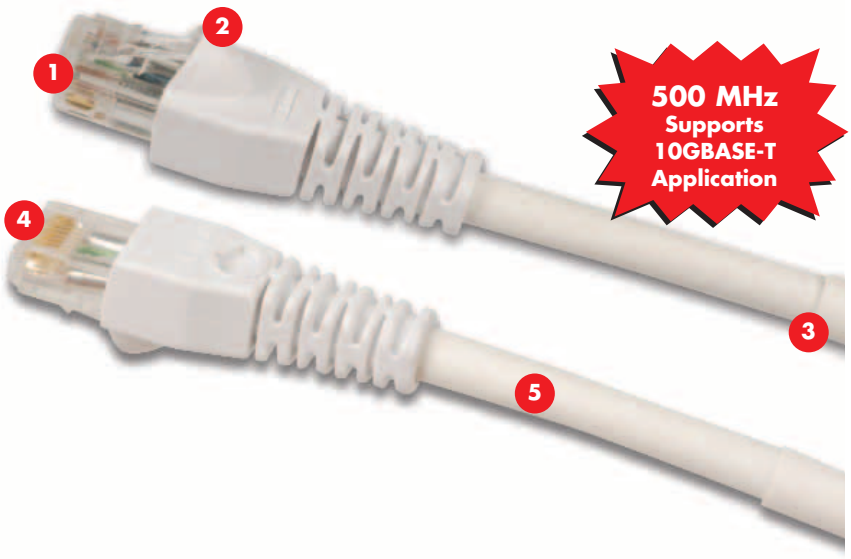
Use 2nd (XX) to specify colour: 01 = black, 02 = white, 03 = red, 04 = grey, 05 = yellow, 06 = blue, 07 = green

(B) Add "B" for bulk project pack of 100 modular cords.

10G 6A UTP MC® MODULAR CORDS

10G ip™

Siemon takes patch cord performance to the next level with our 10G 6A MC modular patch cords. These next generation cords meet or exceed all augmented category 6 component requirements and provide channel performance to 500 MHz.



1. **Universal Wiring** — Compatible with T568A/B wiring schemes
2. **Latch Guard** — Boots feature a latch guard to protect plug from snagging when pulling through pathways or cable managers
3. **High Performance** — 10G 6A cords feature dual jacket construction for excellent alien crosstalk performance
4. **Superior Quality** — Internal stranded cordage isolator provides extended flex life and maintains ideal pair geometry. 360 degree crimp provides excellent plug-to-cable strain relief without causing pair deformation
5. **Optimised Bend Radius** — Patent pending design removes outer jacket layer at plug ends to improve bend radius and flexibility

METALLIC ISOLATOR
Patented metallic isolator shields pairs inside plug for optimum NEXT performance.

EXCELLENT BEND RELIEF
37mm boot ensures excellent bend relief, critical for augmented category 6 performance.

SUPERIOR PERFORMANCE
100% transmission testing ensures augmented category 6 modular cord specifications and guarantees optimum field performance.

10G 6A UTP MC MODULAR CORDS

PATENTED

A variety of plug and cable enhancements contribute to the cords performance — including a patented cross-pair isolator, extended frequency cable and an innovative 360° crimp which provides excellent plug-to-cable strain relief without causing pair deformation. Combine the 10G 6A MC modular cord with Siemon's 10G 6A UTP MAX modules, patch panels and cable for a complete 10G 6A UTP channel solution.

PART #	DESCRIPTION
MC6A-(XX)-(XX)	10G 6A MC, double-ended, 4-pair UTP stranded modular cord, colour matching jacket/boot, T568A/B, CMG

Use 1st (XX) to specify cord length: 03 = 0.9m, 05 = 1.5m, 07 = 2.1m 10 = 3.1m, 15 = 4.6m, 20 = 6.1m

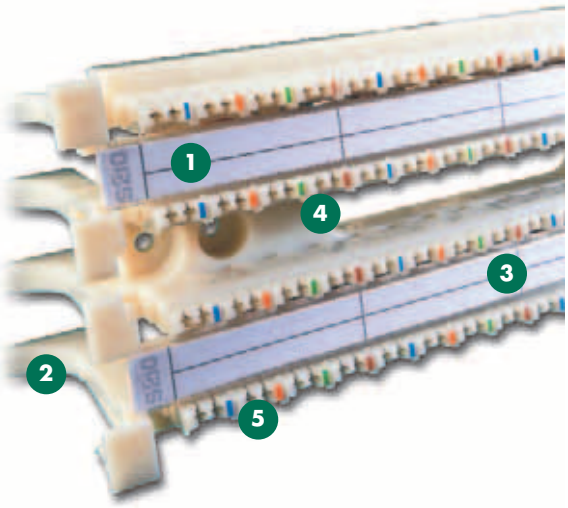
Use 2nd (XX) to specify colour: 01 = black, 02 = white, 03 = red, 04 = grey, 05 = yellow, 06 = blue, 07 = green

Ⓑ *Add "B" for bulk project pack of 100 modular cords.*

S210®
CONNECTION SYSTEM

10G ip™

The Siemon S210 offers the best connecting block performance in the telecommunications industry. Its NEXT performance is so exceptional that it is essentially transparent when used as a consolidation point in a standard or augmented category 6 channel.*

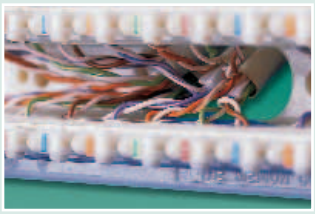


1. **Coloured Labels** — Designation strip with interchangeable coloured labels can be mounted between each row of connecting blocks
2. **Stand-off Legs** — Patented stand-off legs may be detached from the block before, during, or after installation on 64-pair version
3. **Superior Design** — Cable entering through access openings in base is concealed by designation labels
4. **Compatibility** — Utilises same wiring base footprint as standard S110® products to be fully compatible with existing S110 mounting and cable management solutions
5. **Easy Termination** — Utilises same termination practices as existing S110 product and is compatible with all single-position S110 termination tools

** See warranty information for allowable 10G 6A configurations.*

INTERNAL CROSSTALK BARRIERS
Provide superior NEXT performance (13 dB NEXT margin over category 6 specifications) via 360° pair isolation.

PYRAMID™ WIRE ENTRY SYSTEM
Separates paired conductors when lacing cables to simplify and reduce installation time.



CABLE ACCESS OPENINGS
Allow cables to be routed through the rear of the block directly to the point of termination.

S210 FIELD TERMINATION KITS

PATENTED

Complete S210 installation kits include S210 wiring blocks with detachable legs*, S210 connecting blocks, and label holders with white designation labels.

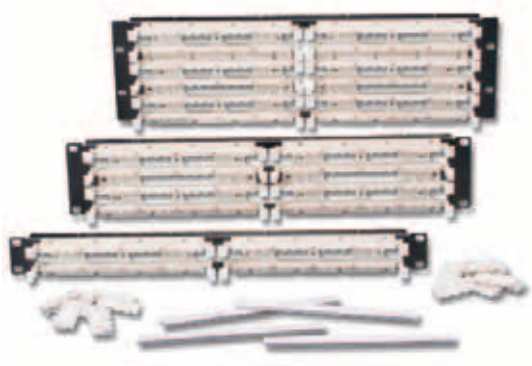
PART #	DESCRIPTION
S210AB2-64FT	64-pair, S210 field termination kit *height: 91.4mm,* *width: 272mm* *depth: 82.8mm*
S210AB2-128FT	128-pair, S210 field termination kit *height: 182.9mm,* *width: 272mm,* *depth: 82.8mm*
S210AB2-192FT	192-pair, S210 field termination kit *height: 275mm,* *width: 272mm,* *depth: 82.8mm*

**Legs detachable on 64-pair version only.*

S210® FIELD TERMINATED 19 INCH PANELS

PATENTED

S210 panels allow wiring blocks to be mounted directly to a 19 inch rack or cabinet. Each panel includes adequate connecting blocks to complete each 25-pair termination strip on the 210 block as well as label holders with white designation labels. Patented openings between rows allow horizontal cables to be routed from behind the panel and enter the block from the rear, helping to maintain cable geometry up to the point of termination.



PART #	DESCRIPTION	U
S210DB2-64RFT	64-pair, 19 inch S210 field termination kit.	1
S210DB2-128RFT	128-pair, 19 inch S210 field termination kit.	2
S210DB2-192RFT	192-pair, 19 inch S210 field termination kit.	3

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S210 TOWER® FIELD TERMINATION KITS

PATENTED

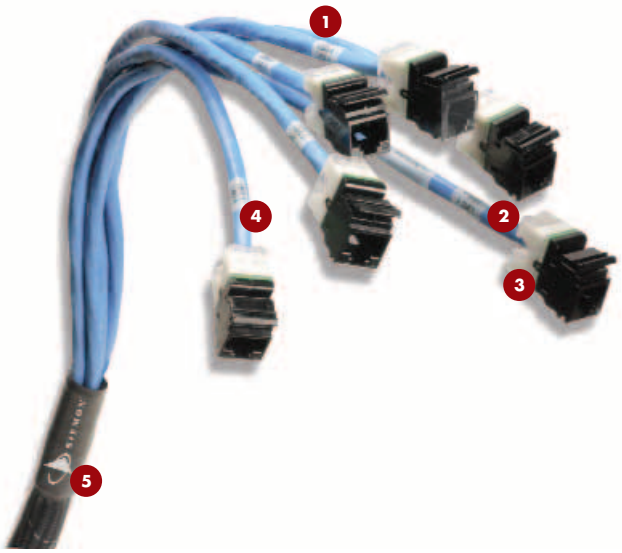
The S210 Tower field termination kits provide a modular, high density, cross-connect, and cable management system. Each kit includes adequate connecting blocks to fully populate tower as well as label holders with white designation labels. The Towers and vertical cable managers are completely modular and can be vertically stacked to accommodate a higher capacity in a single column. The modular design of the large-scale vertical cable managers allow a technician to easily install a high-density cross-connect system without spending valuable time laying out a termination field.

PART #	DESCRIPTION
S210MB2-192FT	192-pair, S210 Tower field termination kit *height: 406mm,* *width: 216mm,* *depth: 152mm*
S210MB2-256FT	256-pair, S210 Tower field termination kit *height: 541mm,* *width: 216mm,* *depth: 152mm*
S210MB2-320FT	320-pair, S210 Tower field termination kit *height: 676mm,* *width: 216mm,* *depth: 152mm*

10G 6A UTP TRUNKING CABLE ASSEMBLIES

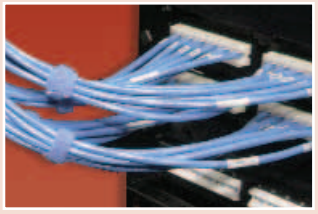
10G ip™

Siemon's Category 6A UTP trunking cable assemblies provide an easily installed and cost effective alternative to individual field-terminated channels. Combining factory terminated and tested 10G 6A UTP MAX® modules with Siemon's 10G 6A UTP cable in a high-performance modular cable assembly, 10G 6A UTP trunking cable assemblies are designed to simplify the installation of 10Gb/s systems in data centres and other high-density, high-performance environments.



1. **Proper Orientation** — Each leg is cut and labelled for proper module orientation
2. **Category 6A UTP Cable** — Utilises high quality Siemon 10G 6A UTP cable
3. **Factory Terminated and Tested** — Utilises flat 10G 6A UTP MAX modules, factory terminated and tested for high performance
4. **Identification** — Each cable assembly is coded with a unique identification number for administrative purposes
5. **Breakout Kit** — Unique breakout kit creates optimal cable orientation and limits cable crossing

DATA CENTRES
Ideal for Data Centre installations where raised floor and ladder rack environments accommodate easy installations.



TRIDENT CUT
Typical installation utilising Trident cut ensures each cable is terminated at the proper length.

PROTECTIVE PACKAGING
Each assembly is packaged individually to protect factory terminations.

10G 6A UTP TRUNKING CABLE ASSEMBLIES

PATENTED

PART #	DESCRIPTION
6 Leg Trunking Cable Assemblies:	
TDRD6E-A1A1(XXX)(X)	10G 6A UTP, riser rated (CMR), double ended flat black MAX modules, blue jacket, 500MHz
TDPD6E-A1A1(XXX)(X)	10G 6A UTP, plenum rated (CMP), double ended flat black MAX modules, blue jacket, 500MHz
TDLD8E-A1A1(XXX)(X)	10G 6A UTP, LS0H rated (IEC 60332-1), double ended flat black MAX modules, violet jacket, 500MHz

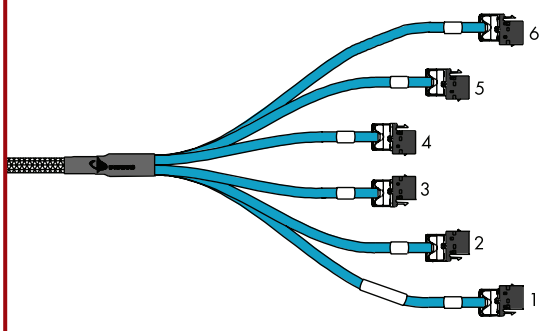
Use (XXX) to specify length:
003-36m in increments of 1 metre
009-120 ft. in increments of 3 feet
Use (X) unit: M = metres, F = feet

Other lengths available upon request.

Note: These products are made to order. Call for lead time and part number availability in your region.

TRIDENT/CENTRE CUT

Description:
Supports left, right or centre exit.



10G 6A UTP
4-PAIR SOLID ROUND CABLE — US

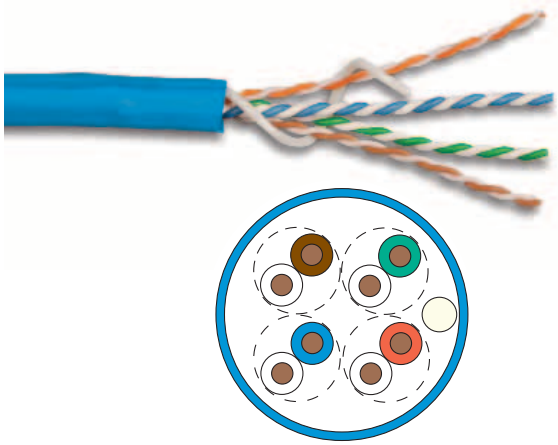
10G ip™

COMPLIANCE
- ISO/IEC 11801:2002 (Category 6)
- ISO/IEC 11801:2002, Amendment 1 (draft)
- TIA/EIA-568-B.2-10 (draft)
- TIA/EIA-568-B.2-1
- IEC 61156-5:2002 (Category 6)
- UL CMR and CSA FT4
- UL CMP and CSA FT6

CABLE CONSTRUCTION
- UTP
- 0.57mm (23 AWG) solid bare copper
- 8.9mm max jacket diameter
- Round jacket
- Spiral isolation member

PART #	DESCRIPTION
9C6P4-A5-(XX)-R1A	Plenum (CMP, CSA FT6) 305m Reel
9C6R4-A5-(XX)-R1A	Riser (CMR, CSA FT4) 305m Reel

Use (XX) to specify jacket colour:
02 = white, 03 = red, 04 = grey, 05 = yellow, 06 = blue, 07 = green



ELECTRICAL SPECIFICATIONS

DC Resistance	<9.38 Ω/100m
DC Resistance Unbalance	5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1 - 100 MHz: 100 ± 15% 100 - 750 MHz: 100 ± 22%
NVP	CMP—72% CMR— 68%
LCL	30-10log(*f*/100)dB
PSANEXT	62.5-15log(*f*/100)dB
PSAACR-F	38.2-20log(*f*/100)dB
Delay Skew	≤ 45ns

PHYSICAL PROPERTIES

	CMP	CMR
Pulling Tension (max)	110N (25 lbf)	110N (25 lbf)
Bend Radius (min)	35.6mm	35.6mm
Installation Temperature	0 to 60°C	-36 to 60°C
Storage Temperature	-20 to 75°C	-34 to 75°C
Operating Temperature	-20 to 60°C	-34 to 60°C

TRANSMISSION PERFORMANCE

GUARANTEED WORST CASE SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0	2.1	1.8	74.3	96.0	72.3	92.0	72.2	94.2	70.2	90.2	67.8	92.0	64.8	85.0	20.0	29.0	570	540
4.0	3.8	3.3	65.3	89.0	63.3	83.0	61.5	85.7	59.5	79.7	55.7	80.0	52.7	73.0	23.0	32.0	552	522
10.0	5.9	5.2	59.3	83.0	57.3	77.0	53.4	77.8	51.4	71.8	47.8	72.0	44.8	65.0	25.0	36.0	545	515
16.0	7.5	6.7	56.2	80.0	54.2	74.0	48.8	73.3	46.8	67.3	43.7	68.0	40.7	61.0	25.0	36.0	543	513
20.0	8.4	7.5	54.8	79.0	52.8	73.0	46.4	71.5	44.4	65.5	41.7	38.0	38.7	59.0	25.0	36.0	542	512
31.25	10.5	9.4	51.9	76.0	49.9	70.0	41.4	66.6	39.4	60.6	37.9	62.0	34.9	55.0	23.6	34.0	540	510
62.5	15.0	13.7	47.4	71.0	45.4	65.0	32.4	57.3	30.4	51.3	31.8	56.0	28.8	49.0	21.5	34.0	539	509
100.0	19.1	17.8	44.3	68.0	42.3	62.0	25.2	50.2	23.2	44.2	27.8	52.0	24.8	45.0	20.1	33.0	538	507
200.0	27.6	25.8	39.8	64.0	37.8	58.0	12.2	38.2	10.2	32.2	21.7	46.0	18.7	39.0	18.0	31.0	537	506
250.0	31.1	29.2	38.3	62.0	36.3	56.0	7.3	32.8	5.3	26.8	19.8	44.0	16.8	37.0	17.3	31.0	536	506
300.0	34.3	31.5	37.1	61.0	35.1	55.0	2.9	29.5	0.9	23.5	18.2	42.0	15.2	35.0	16.8	29.0	536	505
350.0	37.2	33.8	36.1	60.0	34.1	54.0	-1.1	26.2	-3.1	20.2	16.9	41.0	13.9	34.0	16.3	28.0	535	505
400.0	40.1	37.9	35.3	59.0	33.3	53.0	-4.8	21.1	-6.8	15.1	15.7	40.0	12.7	33.0	15.9	27.0	535	505
500.0	45.3	42.1	33.8	57.0	31.8	51.0	-11.4	14.9	-13.4	8.9	13.8	39.0	10.8	32.0	15.2	26.0	536	505
625.0*	51.2	44.9	32.4	53.0	30.4	50.0	-18.8	8.1	-20.8	5.1	11.8	36.0	8.8	29.0	14.5	25.0	535	505
750.0*	56.7	49.0	31.2	51.0	29.2	49.0	-25.5	2.0	-27.5	0.0	10.3	35.0	7.3	27.0	14.0	25.0	535	504

**Performance for frequencies beyond TIA and ISO requirements are for information only.*

All performance based on 100 metres.

RELATED PRODUCTS Cable Preparation Tool page 111

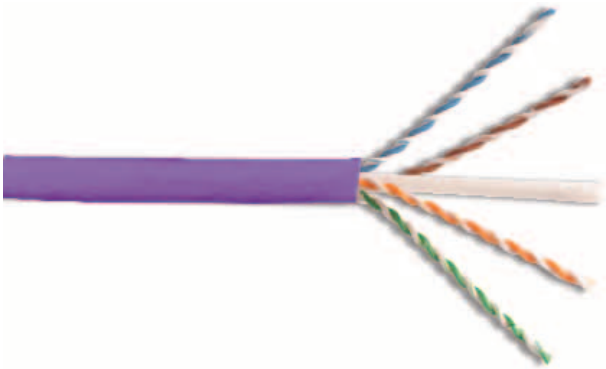
10G 6A UTP
4-PAIR SOLID ROUND CABLE — INTERNATIONAL

10G ip™

COMPLIANCE
- ISO/IEC 11801:2002 (Category 6)
- ISO/IEC 11801: 2000 Amendment 1 (draft)
- TIA/EIA-568-B.2-10 (draft)
- TIA/EIA-568-B.2-1
- IEC 61156-5:2002 (Category 6)
- LS0H: IEC 60332-1, IEC 60754 and IEC 61034

PART #	DESCRIPTION
9C6L4-A5	LS0H (IEC 60332-1) Violet Jacket, 305m Reel
9C6L4-A5-5CR	LS0H (IEC 60332-1) Violet Jacket, 500m Reel
9C6L4-A5-1KR	LS0H (IEC 60332-1) Violet Jacket, 1000m Reel

CABLE CONSTRUCTION
- UTP
- 0.57mm (23 AWG) solid bare copper
- 8.4mm max jacket diameter
- Round jacket
- Centre isolation member



ELECTRICAL SPECIFICATIONS

DC Resistance	<9.38 Ω/100m
DC Resistance Unbalance	5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1 - 250 MHz: 100 ± 15% 100 - 750 MHz: 100 ± 22%
NVP	69%
LCL	30-10log (*f*/100)dB
PSANEXT	62.5-15log(*f*/100)dB
PSAACR-F	38.2-20log(*f*/100)dB
Delay Skew	≤ 45ns

PHYSICAL PROPERTIES

	LS0H
Pulling Tension (max)	110N (25 lbf)
Bend Radius (min)	33.5mm
Installation Temperature	0 to 60°C
Storage Temperature	-20 to 75°C
Operating Temperature	-20 to 60°C

TRANSMISSION PERFORMANCE

TIA/EIA & ISO/IEC SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0	2.1	1.8	74.3	96.0	72.3	92.0	72.2	94.2	70.2	90.2	67.8	92.0	64.8	85.0	20.0	29.0	570	540
4.0	3.8	3.3	65.3	89.0	63.3	83.0	61.5	85.7	59.5	79.7	55.7	80.0	52.7	73.0	23.0	32.0	552	522
10.0	5.9	5.2	59.3	83.0	57.3	77.0	53.4	77.8	51.4	71.8	47.8	72.0	44.8	65.0	25.0	36.0	545	515
16.0	7.5	6.7	56.2	80.0	54.2	74.0	48.8	73.3	46.8	67.3	43.7	68.0	40.7	61.0	25.0	36.0	543	513
20.0	8.4	7.5	54.8	79.0	52.8	73.0	46.4	71.5	44.4	65.5	41.7	38.0	38.7	59.0	25.0	36.0	542	512
31.25	10.5	9.4	51.9	76.0	49.9	70.0	41.4	66.6	39.4	60.6	37.9	62.0	34.9	55.0	23.6	34.0	540	510
62.5	15.0	13.7	47.4	71.0	45.4	65.0	32.4	57.3	30.4	51.3	31.8	56.0	28.8	49.0	21.5	34.0	539	509
100.0	19.1	17.8	44.3	68.0	42.3	62.0	25.2	50.2	23.2	44.2	27.8	52.0	24.8	45.0	20.1	33.0	538	507
200.0	27.6	25.8	39.8	64.0	37.8	58.0	12.2	38.2	10.2	32.2	21.7	46.0	18.7	39.0	18.0	31.0	537	506
250.0	31.1	29.2	38.3	62.0	36.3	56.0	7.3	32.8	5.3	26.8	19.8	44.0	16.8	37.0	17.3	31.0	536	506
300.0	34.3	31.5	37.1	61.0	35.1	55.0	2.9	29.5	0.9	23.5	18.2	42.0	15.2	35.0	16.8	29.0	536	505
350.0	37.2	33.8	36.1	60.0	34.1	54.0	-1.1	26.2	-3.1	20.2	16.9	41.0	13.9	34.0	16.3	28.0	535	505
400.0	40.1	37.9	35.3	59.0	33.3	53.0	-4.8	21.1	-6.8	15.1	15.7	40.0	12.7	33.0	15.9	27.0	535	505
500.0	45.3	42.1	33.8	57.0	31.8	51.0	-11.4	14.9	-13.4	8.9	13.8	39.0	10.8	32.0	15.2	26.0	536	505
625.0*	51.2	44.9	32.4	53.0	30.4	50.0	-18.8	8.1	-20.8	5.1	11.8	36.0	8.8	29.0	14.5	25.0	535	505
750.0*	56.7	49.0	31.2	51.0	29.2	49.0	-25.5	2.0	-27.5	0.0	10.3	35.0	7.3	27.0	14.0	25.0	535	504

**Performance for frequencies beyond TIA and ISO requirements are for information only.*

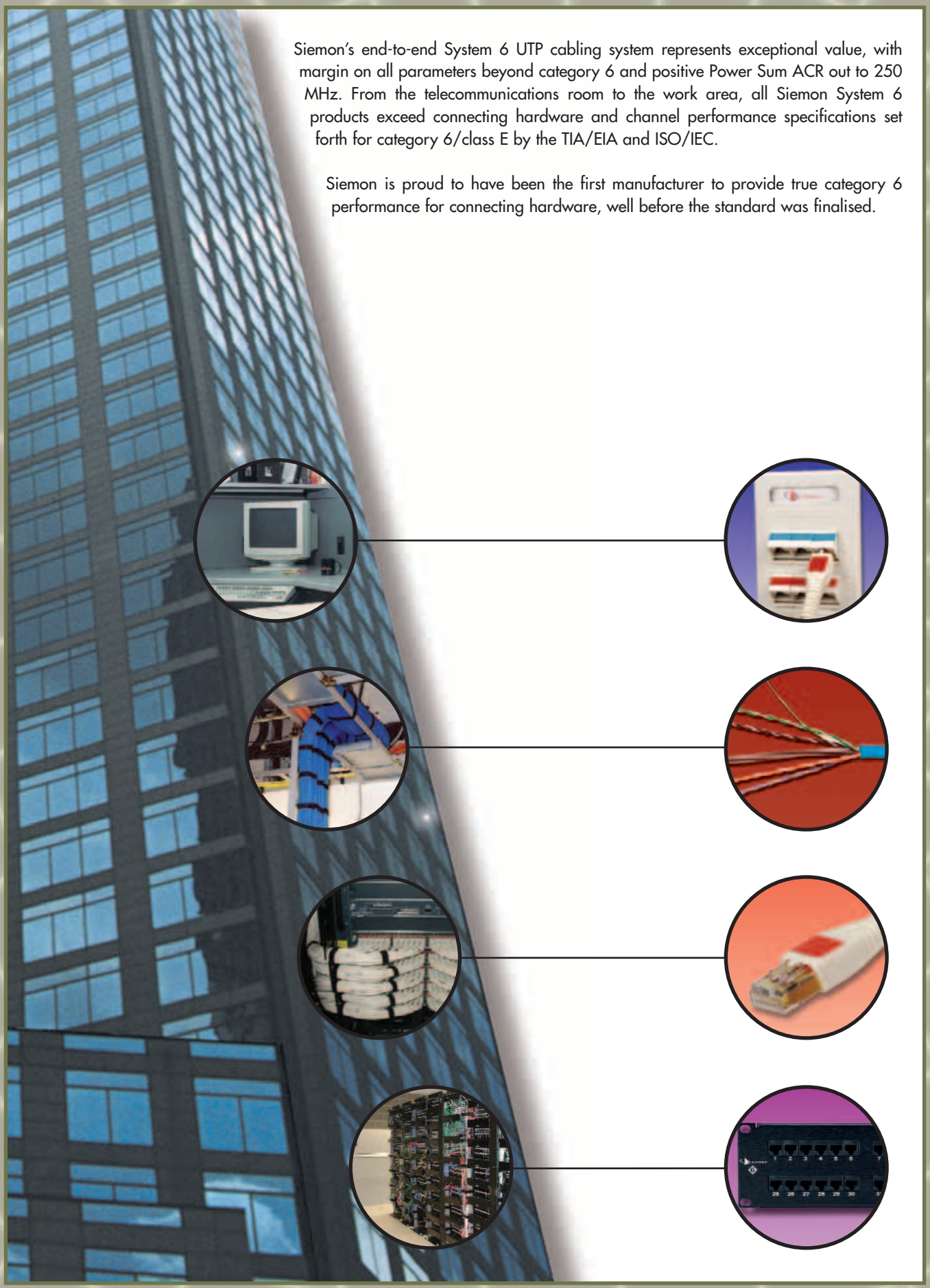
All performance based on 100 metres.

RELATED PRODUCTS Cable Preparation Tool page 111

SYSTEM 6® UTP PRODUCTS

Siemon's end-to-end System 6 UTP cabling system represents exceptional value, with margin on all parameters beyond category 6 and positive Power Sum ACR out to 250 MHz. From the telecommunications room to the work area, all Siemon System 6 products exceed connecting hardware and channel performance specifications set forth for category 6/class E by the TIA/EIA and ISO/IEC.

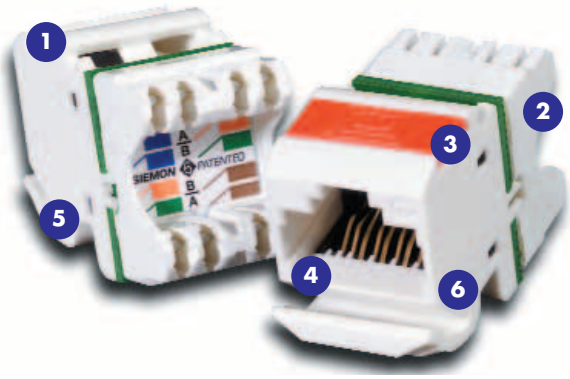
Siemon is proud to have been the first manufacturer to provide true category 6 performance for connecting hardware, well before the standard was finalised.



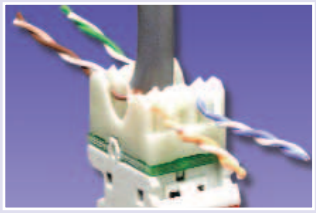
SYSTEM 6 UTP MAX® MODULES

Part of Siemon's System 6 UTP end-to-end Cabling Solution, the System 6 MAX module provides performance far exceeding category 6 connecting hardware performance specifications.

Its compact design is ideal for high density applications. Up to six modules can be utilised in a single gang faceplate and twelve modules in a double gang faceplate. Also, the angled MAX module provides a gravity feed, low-profile design for the work area — greatly improving patch cord management in installations where clearance is at a minimum.



1. **Flexible Installation** — Install from either front or rear of faceplate
2. **Easy Termination** — Terminates with standard 110 termination tools
3. **Quick Identification** — Icons provided for port identification
4. **Backward Compatible** — With category 5e/class D system components
5. **Universal Wiring** — T568A and T568B wiring compatible
6. **Protective Doors** — Minimise exposure to dust and other contaminants *(doors not shown)*



QUICK INSTALLATION
Pyramid wire entry system on S310® blocks separates paired conductors when lacing cables to simplify and reduce installation time.

TERMINATION
Siemon's Palm Guard with MAX insert (p/n: PG-MX6) assists in securing module during termination.

SUPERIOR PERFORMANCE
For superior performance use System 6 MC modular cords to unlock the performance of System 6 MAX modules.

SYSTEM 6 UTP MAX MODULES

PATENTED

Combine the System 6 UTP MAX modules with Siemon's System 6 UTP MC® modular cords, BladePatch®, HD® and MAX patch panels and Siemon cable for a complete System 6 solution.

MX6-(XX) .....
System 6 Angled MAX module, T568A/B, rear strain relief cap and protective colour-matching rubber door*

MX6-F(XX) .....
System 6 Flat MAX module, T568A/B, rear strain relief cap

MX6-K(XX) .....
System 6 Keystone MAX module, T568A/B, rear strain relief cap

Use (XX) to specify colour: 01 = black, 02 = white, 03 = red, 04 = grey, 05 = yellow, 06 = blue, 07 = green, 09 = orange, 20 = ivory, 25 = bright white, 80 = light ivory, 82 = alpine white

Angled modules include one colour-matching, one red, and one blue icon.
**Door colour is clear for red, yellow, blue and orange angled modules.*

Flat modules include one colour-matching, one red, and one blue icon.
Add "-D" for optional colour-matching door. Door colour is white for red, yellow, blue, green, and orange modules.

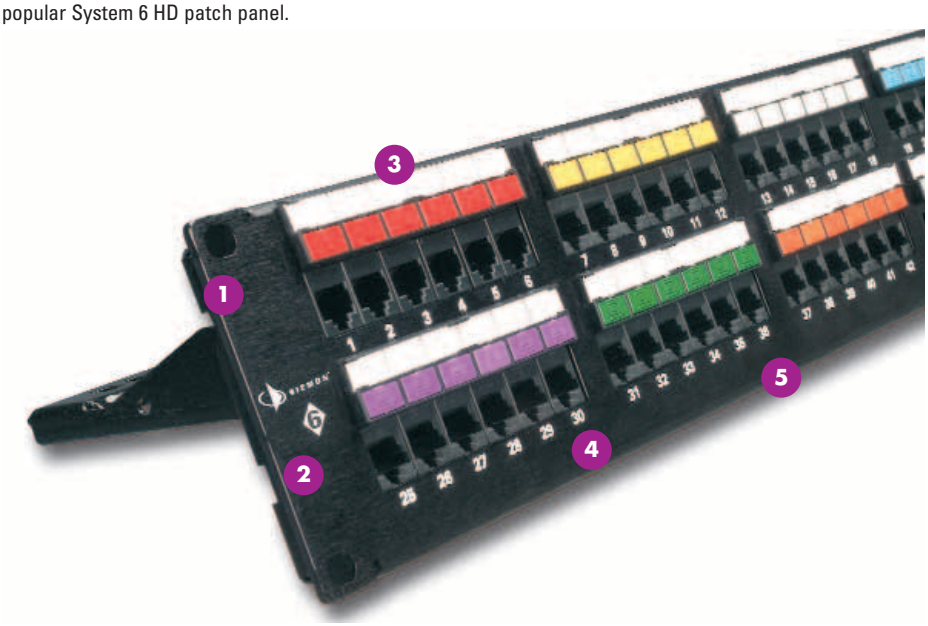
Keystone version is designed for integration with various international mounting products and is not compatible with MAX mounting hardware.

Ⓑ *Add "B" to end of part number for bulk project pack of 100 modules (angled and flat modules include icons).*

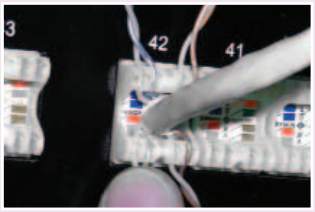
RELATED PRODUCTS MAX Modular Faceplates pages 99-100; MX-SM Surface Mount Box page 104; MAX MuTOA page 105

SYSTEM 6 UTP HD® PATCH PANELS

A breakthrough in patch panel performance. Siemon's System 6 HD patch panel was the industry's first patch panel to exceed category 6 connecting hardware specifications for all pair combinations up to 250 MHz. Get superior performance and user-friendly termination, labelling, and cable management features with Siemon's popular System 6 HD patch panel.



1. **Universal Wiring** — System 6 HD patch panels feature universal wiring for both T566A/B
2. **Aesthetics** — Front surface is uninterrupted by screw heads for a clean appearance
3. **Installer Friendly** — Icon label holders and designation labels included
4. **Port Identification** — Bold port numbering enables quick identification of outlets
5. **Standard Fit** — Panels can be mounted directly on standard 19 inch rack or cabinet



PYRAMID™ WIRE ENTRY SYSTEM
Pyramid wire entry system on S310® blocks separates paired conductors when lacing cables to reduce installation time.

CIRCUIT PROTECTION
Rear metal enclosure protects printed circuitry.

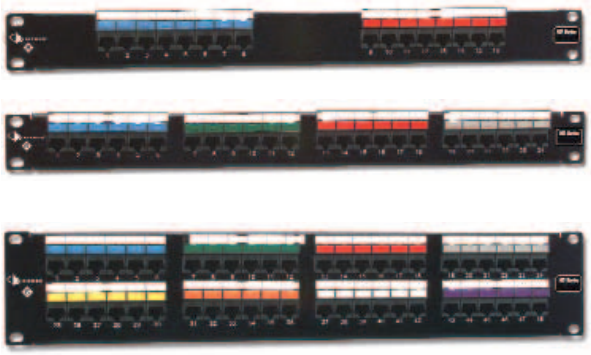
CABLE MANAGEMENT
Includes built-in cable manager to properly guide cables to point of termination.

SYSTEM 6 UTP HD PATCH PANELS

PATENTED

Combine System 6 UTP BladePatch and MC modular patch cords, MAX modules, Siemon Cable and MAX faceplates for a complete System 6 channel solution.

PART #	DESCRIPTION	U
HD6-16	16-port System 6 UTP HD patch panel	1
HD6-24	24-port System 6 UTP HD patch panel	1
HD6-32	32-port System 6 UTP HD patch panel	2
HD6-48	48-port System 6 UTP HD patch panel	2
HD6-96	96-port System 6 UTP HD patch panel	4



Panels include rear cable manager(s), icon label holders, designation labels, cable ties, and mounting hardware.

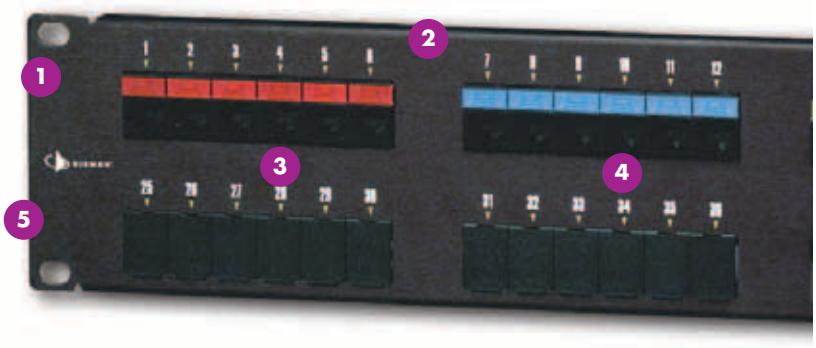
Ⓑ Add "B" for bulk project pack of 5 panels (rear cable managers [p/n: HD-RWM] not included but can be ordered separately).

Note: 1 U = 44.5mm

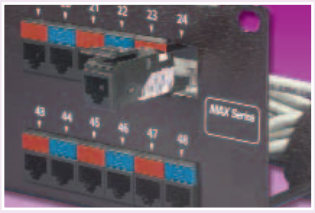
S310 termination blocks are not compatible with S110 multi-pair termination tools.

MAX® PATCH PANELS

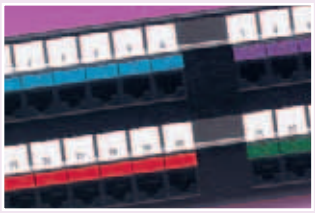
MAX patch panels provide a flexible, high density termination solution for the telecommunications room. Using the full line of MAX modules (available separately), the panel can be configured for a variety of multimedia applications. Blank modules can be used to reserve ports for future capacity.



1. **High Density Design** — Accommodates up to 24 ports per U
2. **Aesthetics** — Lightweight, high strength brushed aluminium with black protective finish
3. **Installer Friendly** — Icon label holders and designation labels included
4. **Port Identification** — Bold port numbering enables quick identification of outlets
5. **Standard Fit** — Panels can be mounted directly on standard 19 inch rack or cabinet



INSTALLATION FRIENDLY
Individual modules snap into place from front or rear of panel for added installation flexibility.



DESIGNATION LABELS
Removable designation labels can be laser printed and enable proper circuit identification for each port.

MAX PATCH PANELS

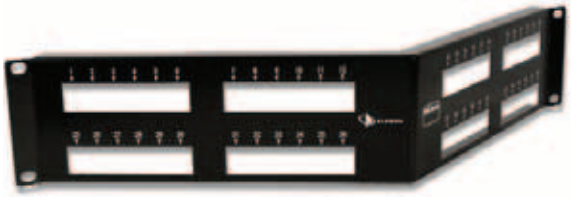
PATENTED

PART #	DESCRIPTION	U
MX-PNL-16	16-port MAX patch panel	1
MX-PNL-24	24-port MAX patch panel	1
MX-PNL-48	48-port MAX patch panel	2
MX-PNL-72	72-port MAX patch panel	2

Panels include rear cable manager, designation labels, cable ties, and mounting hardware.
MAX Panels are not compatible with screened MAX modules. Use the TERA®-MAX panel.

ANGLED MAX PATCH PANELS

Siemon's MAX series angled patch panels route cables directly into the vertical cable managers eliminating the need for horizontal cable management between panels.



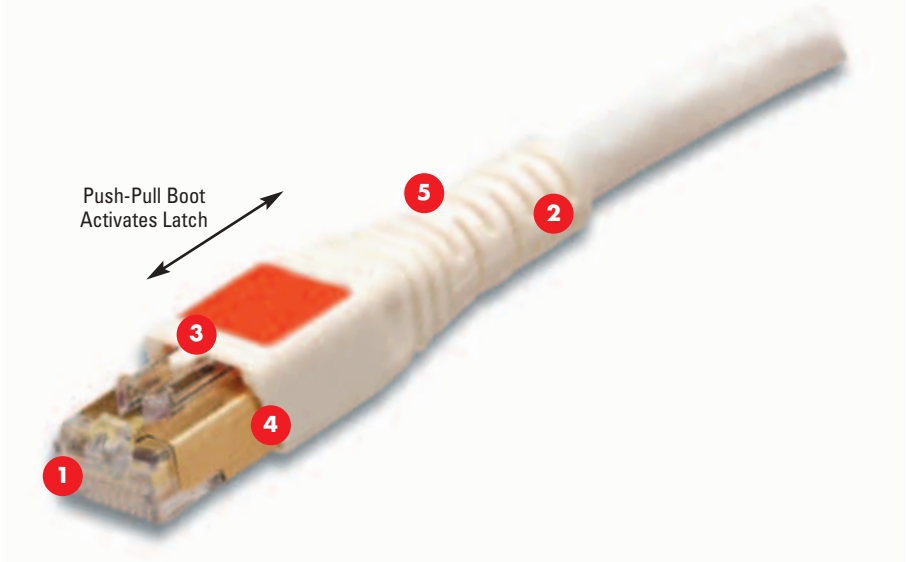
PART #	DESCRIPTION	U
MX-PNLA-24	24-port angled MAX patch panel	1
MX-PNLA-48	48-port angled MAX patch panel	2

Panels include mounting hardware. Rear cable manager not included (see page 105).
Angled MAX panels are not compatible with screened MAX modules. Use the TERA-MAX panel.
Angled MAX panels are not recommended for use with RS2 or RS3 rack series. Use the RS series racks.
Note: 1 U = 44.5mm

RELATED PRODUCTS
Rear Cable Manager page 109

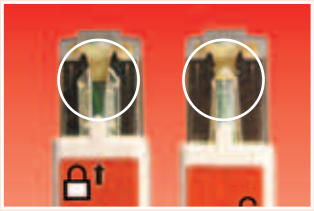
SYSTEM 6 UTP BLADEPATCH® MODULAR CORDS

Siemon's System 6 UTP BladePatch offers a unique System 6 solution for high-density patching environments. It features an innovative push-pull boot design to control the latch, enabling easy access and removal of the cord in tight-fitting areas. The BladePatch cord is ideal for patching high density blade servers, patch panels, or any equipment with RJ-45 outlets.



1. **Revolutionary Design** — Push-pull latch design eliminates need to defeat thumb latch used in standard modular plug designs
2. **Easy Access and Removal** — RJ-45 patch cord with patent-pending push-pull latch design enables easy access and removal in high density patching environments
3. **Snagless** — Push-pull design eliminates external thumb latch which can snag and break
4. **Low Profile Boot Design** — Optimises side-stackability of patch cords and allows use in even the most dense equipment
5. **High Density** — Ideal for high density data centre applications and today's high-density blade servers

UNIVERSAL COMPATIBILITY
Fits within any standard RJ-45 opening.



REVOLUTIONARY LATCH
Simply push the boot forward to latch into the outlet and pull back to release.

HIGH DENSITY
The push-pull design enables easy access and removal via the boot in tight-fitting areas.

SYSTEM 6 UTP BLADEPATCH MODULAR CORDS

PATENTED

PART #	DESCRIPTION
BP6-(XX)-(XX)	System 6, BladePatch double-ended, 4-pair UTP stranded modular cord with push-pull latching design, colour matching cord/boot, T568A/B

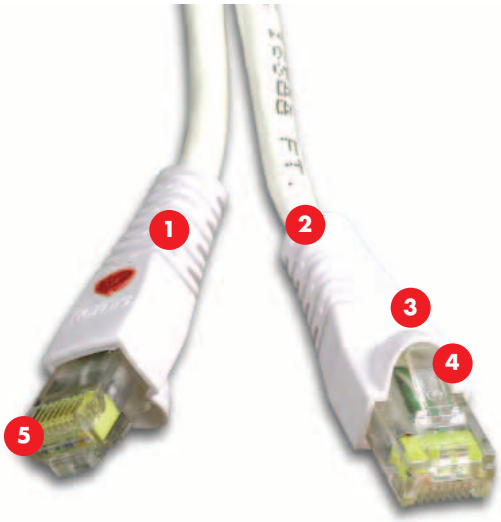
Use 1st (XX) to specify cord length:
03 = 0.9m, 05 = 1.5m, 07 = 2.1m, 10 = 3.1m, 15 = 4.6m, 20 = 6.1m

Use 2nd (XX) to specify colour:
01 = black, 02 = white, 03 = red, 04 = grey, 05 = yellow, 06 = blue, 07 = green

(B) Add "B" for bulk project pack of 100 modular cords.

SYSTEM 6 UTP MC® MODULAR CORDS

Siemon's System 6 MC modular cords are the key to unlocking the performance of System 6® products. A variety of product enhancements contribute to the cord's performance — including 250 MHz rated stranded cordage, a patented cross-pair isolator and an innovative 360° crimp, which provides excellent plug-to-cable strain relief without causing pair deformation.



1. **Easy Identification** — Optional colour-coded icons available for port identification
2. **Superior Quality** — Internal stranded cordage isolator provides extended flex life and maintains ideal pair geometry
3. **Innovative Strain Relief** — 360 degree crimp provides excellent plug-to-cable strain relief without causing pair deformation
4. **Latch Guard** — Slide on boots feature a latch guard to protect plug from snagging when pulling through pathways or cable managers
5. **Durability** — High quality modular plugs provide long-term resistance to corrosion, humidity, extreme temperatures and airborne contaminants

METALLIC ISOLATOR
Patented metallic isolator shields pairs inside plug for optimum NEXT performance.

EXCELLENT BEND RELIEF
37mm boot ensures excellent bend relief, critical for augmented category 6 performance.

EXCEEDS CATEGORY 6
100% transmission testing ensures category 6 modular cord specifications and guarantees optimum field performance.

SYSTEM 6 UTP MC MODULAR CORDS

PATENTED

PART #	DESCRIPTION
MC6-8-T-(XX)-(XX)	System 6 MC, double-ended, 4-pair UTP stranded modular cord, colour matching jacket/boot, T568A/B, CMG

Use 1st (XX) to specify cord length:
03 = 0.9m, 05 = 1.5m, 07 = 2.1m, 10 = 3.1m,15 = 4.6m, 20 = 6.1m
Use 2nd (XX) to specify colour:
01 = black, 02 = white, 03 = red, 04 = grey, 05 = yellow, 06 = blue, 07=green
(B) Add "B" for bulk project pack of 100 modular cords.

SYSTEM 6 MC® VoIP CORDS

PATENTED

Siemon's System 6 MC VoIP modular cords are designed for compatibility with today's VoIP phones. The cords feature a new low-profile strain relief boot designed to minimise bend radius and interference when connecting into traditional VoIP work area phones. All cords are 100% factory transmission tested to 250 MHz.

PART #	DESCRIPTION
MC6-8T-(XX)-B01IP	System 6 MC, double ended, 4 pair UTP stranded modular cord, white cord, black boot, T568A/B, CMG

Use (XX) to specify cord length:
03 = 0.9m, 05 = 1.5m, 07 = 2.1m, 10 = 3.1m, 15 = 4.6m, 20 = 6.1m

SYSTEM 6 IC SOLID SINGLE-ENDED MODULAR CORDS

PATENTED

Siemon's System 6 IC solid single-ended modular cords are designed for use in category 6 applications requiring a consolidation point (CP) or cross-connect (as an equipment cord). The System 6 IC cords are 100% factory transmission tested to 250 MHz and feature the same plug construction used in stranded System 6 modular cords. These cords are available in CMP and CMR versions and are single-ended for direct termination.

PART #	DESCRIPTION
IC6-8A-(XX)-B(XX)	System 6 IC, single-ended, non-plenum, 4-pair UTP solid modular cord, grey jacket with coloured boot, T568B, CMR
IC6-8T-(XX)-B(XX)	System 6 IC, single-ended, non-plenum, 4-pair UTP solid modular cord, grey jacket with coloured boot, T568A, CMR
IC6-8A-(XX)-B(XX)P	System 6 IC, single-ended, plenum, 4-pair UTP solid modular cord, blue plenum jacket with coloured boot T568B, CMP
IC6-8T-(XX)-B(XX)P	System 6 IC, single-ended, plenum, 4-pair UTP solid modular cord, blue plenum jacket with coloured boot, T568A, CMP

Use 1st (XX) to specify cord length:
10 = 3.1m, 20 = 6.1m, 30 = 9.1m, 40 = 12.2m, 50 = 15.2m, 60 = 18.3m

Use 2nd (XX) to specify colour of boot:
01 = black, 02 = white, 03 = red, 04 = grey, 05 = yellow, 06 = blue, 07 = green

S210® TO MC® CABLE ASSEMBLIES

PATENTED

The S210 to modular cable assemblies combine Siemon's high performing plugs for patching network equipment to S210 connecting blocks or providing test access to S210 termination fields. The combination of plugs, high performance cable and 100% factory transmission testing ensures performance is compatible with category 6 channel specifications.

PART #	DESCRIPTION
S210P4A4-(XX)-(XX)	4-pair, S210P4 to MC 6 stranded cable assembly, colour matching jacket/boot, T568B, CMG
S210P4T4-(XX)-(XX)	4-pair, S210P4 to MC 6 stranded cable assembly, colour matching jacket/boot, T568A, CMG
S210P2E2-(XX)-B(XX)	2-pair, S210P2 to MC 6 stranded cable assembly, white jacket with coloured boot, 10/100BASE-T, CMG

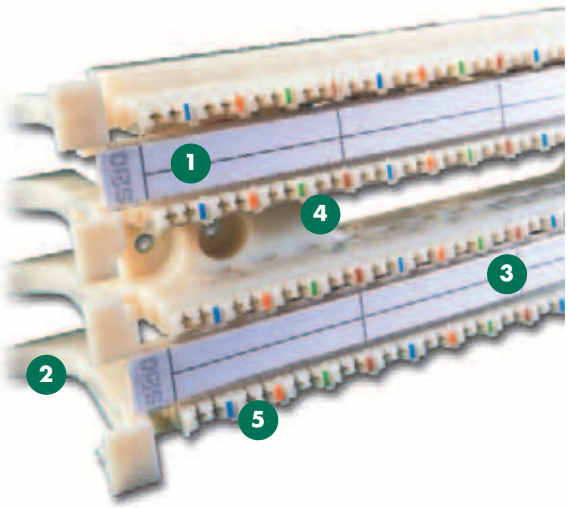
Use 1st (XX) to specify cord length:
03 = 0.9m, 05 = 1.5m, 07 = 2.1m, 10 = 3.1m, 15 = 4.6m, 20 = 6.1m

Use 2nd (XX) to specify colour:
01 = black, 02 = white, 03 = red, 04 = grey, 05 = yellow, 06 = blue, 07 = green

S210® CONNECTION SYSTEM

The Siemon S210 offers the best connecting block performance in the telecommunications industry. Its NEXT performance is so exceptional that it is essentially transparent when used in a standard category 6 channel.

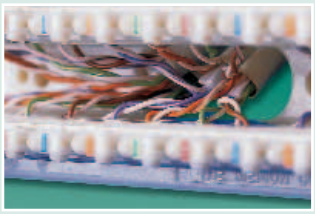
The Siemon S210 block is the ideal migration path for Voice over IP (VoIP) applications. It can be used to support existing cross-connects for standard phone systems today and enables upgrades to a category 6 rated solution for a seamless network transition. The S210's inherent high performance helps to maximise throughput, thereby improving the overall Quality of Service (QoS) required for VoIP.



1. **Coloured Labels** — Designation strip with interchangeable coloured labels can be mounted between each row of connecting blocks
2. **Stand-off Legs** — Patented stand-off legs may be detached from the block before, during, or after installation on 64-pair version
3. **Superior Design** — Cable entering through access openings in base is concealed by designation labels
4. **Compatibility** — Utilises same wiring base footprint as standard S110® products to be fully compatible with existing S110 mounting and cable management solutions
5. **Easy Termination** — Utilises same termination practices as existing S110 product and is compatible with all single-position S110 termination tools

INTERNAL CROSSTALK BARRIERS
Provide superior NEXT performance (13 dB NEXT margin over category 6 specifications) via 360° pair isolation.

PYRAMID™ WIRE ENTRY SYSTEM
Separates paired conductors when lacing cables to simplify and reduce installation time.



CABLE ACCESS OPENINGS
Allow cables to be routed through the rear of the block directly to the point of termination.

S210 FIELD TERMINATION KITS

PATENTED

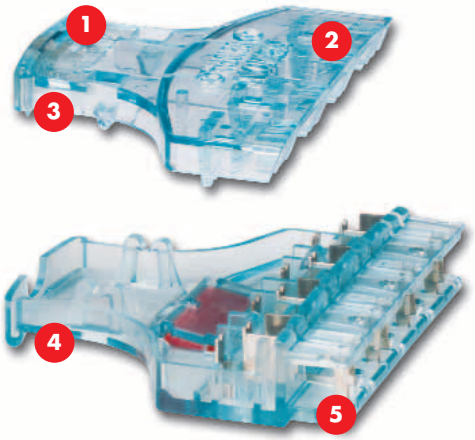
Complete S210 installation kits include S210 wiring blocks with detachable legs*, S210 connecting blocks, and label holders with white designation labels.

PART #	DESCRIPTION
S210AB2-64FT	64-pair, S210 field termination kit *height: 91.4mm,* *width: 272mm,* *depth: 82.8mm*
S210AB2-128FT	128-pair, S210 field termination kit *height: 182.9mm,* *width: 272mm,* *depth: 82.8mm*
S210AB2-192FT	192-pair, S210 field termination kit *height: 275mm,* *width: 272mm,* *depth: 82.8mm*

**Legs detachable on 64-pair version only.*

S210® PATCH PLUGS

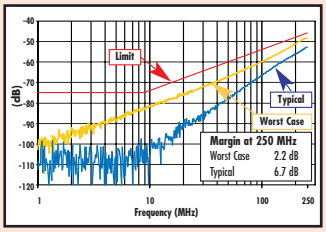
Siemon technology delivers the world's most advanced connection system. The S210 patch plug utilises internal pair isolation, pair-to-pair compensation and layered contacts to improve cross-talk performance so that the mated plug and connecting block far exceed category 6 connecting hardware transmission requirements. The clear housing keeps the conductor colours/positions visible to aid matching termination positions on the other end.



1. **Proper Orientation** — Directional arrow provided to assist in proper insertion orientation
2. **Tapered Lacing** — Enable easy field termination
3. **Ergonomic Handle** — Aids insertion and removal of patch plug
4. **Clear Housing** — Durable, flame-retardant, clear thermoplastic housing keeps conductors visible during and after termination
5. **Polarisation** — Each plug housing includes Polarisation features to ensure proper orientation of the plug when connecting to the S210 connecting block

TECHNICAL TIP!
S210 to System 6 MC® cable assemblies can be configured in the field. Siemon System 6 MC modular cords can be purchased and cut in half. The cut end of the cord can then be field terminated to the S210P patch plug while the factory terminated and tested modular plug end remains undisturbed.

FIELD INSTALLABLE
Terminates 24-26 AWG (0.40mm-0.51mm) solid or 7-strand twisted-pair cable.



NEXT PERFORMANCE
The S210 4-pair plug provides unparalleled performance, with 6.7 dB NEXT (typical) and 2.2 dB NEXT (worst case) at 250 MHz.

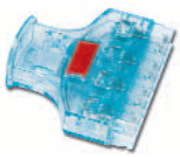
EASY TERMINATION
Simply snap the base and cover together to mass terminate all conductors.

S210 PATCH PLUGS

PATENTED

S210 patch plugs can be field-terminated to 23 – 26 AWG (0.40mm – 0.51mm) solid or 7-strand twisted-pair cable.

S210P4 .....
4-pair, field-terminated,
S210 patch plug



S210P2 .....
2-pair, field-terminated,
S210 patch plug

S210P1 .....
1-pair, field-terminated,
S210 patch plug

S210 CABLE ASSEMBLIES

PATENTED

The S210 cable assemblies utilise Siemon's S210P4 patch plugs for easy and reliable connections between S210 termination fields. These assemblies use high performance stranded cable which exceeds category 6 specifications and are 100% factory transmission tested to ensure optimum category 6 channel performance. Coloured icons are available for colour-coding S210 plugs.

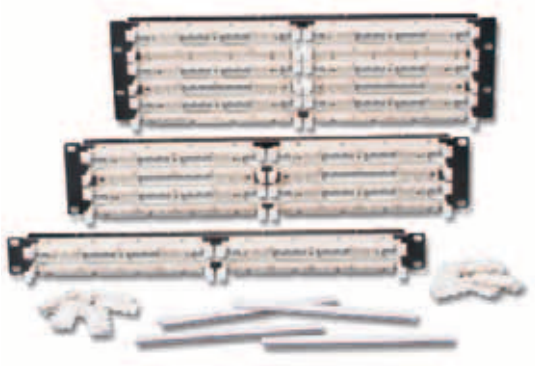
PART #	DESCRIPTION
S210P4-P4-(XX)	4-pair, double-ended, S210 stranded cable assembly, white jacket
S210P2-P2-(XX)	2-pair, double-ended, S210 stranded cable assembly, white jacket
S210P1-P1-(XX)	1-pair, double-ended, S210 stranded cable assembly, white jacket

Use (XX) to specify cord length: 03 = 0.9m, 05 = 1.5m, 07 = 2.1m, 10 = 3.1m, 15 = 4.6m, 20 = 6.1m
Custom lengths available upon request. Contact our Customer Service Department for more information.

S210® FIELD TERMINATED 19 INCH PANELS

PATENTED

S210 panels allow wiring blocks to be mounted directly to a 19 inch rack or cabinet. Each panel includes adequate connecting blocks to complete each 25-pair termination strip on the 210 block as well as label holders with white designation labels. Patented openings between rows allow horizontal cables to be routed from behind the panel and enter the block from the rear, helping to maintain cable geometry up to the point of termination.



PART #	DESCRIPTION	U
S210DB2-64RFT	64-pair, 19 inch S210 field termination kit.	1
S210DB2-128RFT	128-pair, 19 inch S210 field termination kit.	2
S210DB2-192RFT	192-pair, 19 inch S210 field termination kit.	3

S210 TOWER® FIELD TERMINATION KITS

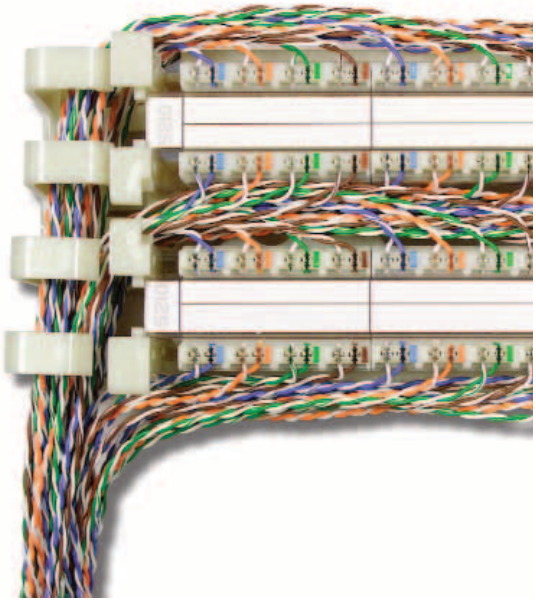
PATENTED

The S210 Tower field termination kits provide a modular, high density, cross-connect, and cable management system. Each kit includes adequate connecting blocks to fully populate tower as well as label holders with white designation labels. The Towers and vertical cable managers are completely modular and can be vertically stacked to accommodate a higher capacity in a single column. The modular design of the large-scale vertical cable managers allow a technician to easily install a high-density cross-connect system without spending valuable time laying out a termination field.

PART #	DESCRIPTION
S210MB2-192FT	192-pair, S210 Tower field termination kit *height: 406mm,* *width: 216mm,* *depth: 152mm*
S210MB2-256FT	256-pair, S210 Tower field termination kit *height: 541mm,* *width: 216mm,* *depth: 152mm*
S210MB2-320FT	320-pair, S210 Tower field termination kit *height: 676mm,* *width: 216mm,* *depth: 152mm*

SYSTEM 6 CROSS-CONNECT WIRE

Siemon's System 6 cross-connect is ideal for cross-connect applications up to 5 metres. It can be used for System 6 using S210® wiring blocks.



PART # **DESCRIPTION**

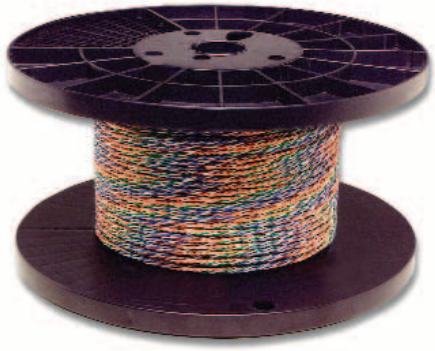
CJ6-W4-1000..... System 6, 4-pair, 24 AWG (0.05mm), solid cross-connect wire, pair colours blue/orange/green/brown, 305mm spool

COMPLIANCE

- ISO/IEC 11801:2002 2nd Edition (category 6)
- TIA/EIA-568-B.2-1
- IEC 61156-5:2002 (Category 6)

CABLE CONSTRUCTION

- 0.5mm (24 AWG) bare copper conductors
- 1.02mm insulation diameter nominal



ELECTRICAL CHARACTERISTICS

Maximum DC Resistance (@ 20° C)	9.4 ohms/100m
Characteristic Impedance (no impedance averaging allowed)	1-100 MHz: 100 ohms ± 15% 100-250 MHz: 100 ohms ± 22%
Nominal Velocity of Propagation (NVP)	65%

TRANSMISSION PERFORMANCE

TIA/EIA & ISO/IEC SIEMON WORST CASE

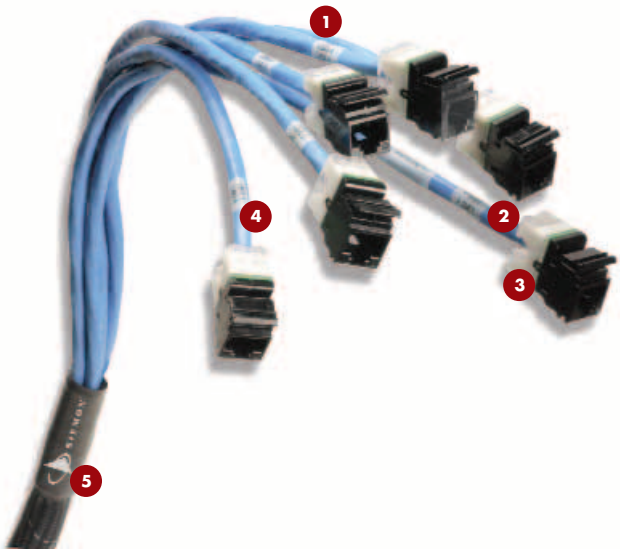
Frequency (MHz)	Insertion Loss (dB)		NEXT (dB		PS NEXT* (dB)		ACR-F (dB)		PS ACR-F* (dB)		Return Loss (dB)	
1.0	2.0	2.0	74.3	74.3	72.3	72.3	67.8	67.8	64.8	64.8	20.0	20.0
2.0	2.7	2.7	69.8	69.8	67.8	67.8	61.8	61.8	58.8	58.8	21.5	21.5
4.0	3.8	3.8	65.3	65.3	63.3	63.3	55.8	55.8	52.8	52.8	23.0	23.0
10.0	6.0	6.0	59.3	59.3	57.3	57.3	47.8	47.8	44.8	44.8	25.0	25.0
16.0	7.6	7.6	56.2	56.2	54.2	54.2	43.7	43.7	40.7	40.7	25.0	25.0
20.0	8.5	8.5	54.8	54.8	52.8	52.8	41.8	41.8	38.8	38.8	25.0	25.0
31.25	10.7	10.7	51.9	51.9	49.9	49.9	37.9	37.9	34.9	34.9	23.6	23.6
62.5	15.4	15.4	47.4	47.4	45.4	45.4	31.9	31.9	28.9	28.9	21.5	21.5
100.0	19.8	19.8	44.3	44.3	42.3	42.3	27.8	27.8	24.8	24.8	20.1	20.1
125.0	22.4	22.4	42.8	42.8	40.8	40.8	25.9	25.9	22.9	22.9	19.4	19.4
160.0	25.6	25.1	41.2	41.2	39.2	39.2	23.7	23.7	20.7	20.7	18.7	18.7
175.0	26.9	29.9	40.7	40.7	38.7	38.7	22.9	22.9	19.9	19.9	18.4	18.4
200.0	29.0	29.0	39.8	39.8	37.8	37.8	21.8	21.8	18.8	18.8	18.0	18.0
250.0	32.8	32.8	38.3	38.3	36.3	36.3	19.8	19.8	16.8	16.8	17.3	17.3

All performance based on 100 metres.

** Up to 2 dB improvement in crosstalk can be expected for unjacketed cross-connect cables.*

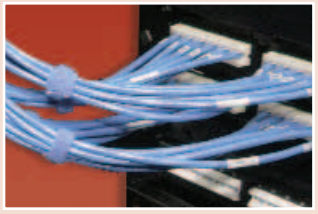
SYSTEM 6 UTP TRUNKING CABLE ASSEMBLIES

Siemon's System 6 UTP copper trunking cable assemblies provide an efficient and cost effective alternative to individual field-terminated components. Combining factory terminated and tested UTP MAX® modules with Siemon System 6 cable, Siemon copper trunking cable assemblies were designed with data centre applications in mind. In addition to providing simple and aesthetically pleasing cable management, standard configurations also help maintain consistent cable layout and facilitate efficient moves, adds and changes.



1. **Proper Orientation** — Each leg is labelled for proper module orientation
2. **Siemon Cable** — Utilises high quality Siemon cable
3. **Factory Terminated and Tested** — Utilises flat UTP MAX modules, factory terminated and tested for high performance
4. **Identification** — Each cable assembly is coded with a unique identification number for administrative purposes
5. **Breakout Kit** — Unique breakout kit creates optimal cable orientation and limits cable crossing

DATA CENTRES
Ideal for Data Centre installations where raised floor and ladder rack environments accommodate easy installations.



TRIDENT CUT
Typical installation utilising Trident cut ensures each cable is terminated at the proper length.

PROTECTIVE PACKAGING
Each assembly is packaged individually to protect factory terminations.

SYSTEM 6 UTP TRUNKING CABLE ASSEMBLIES

PATENTED

PART #	DESCRIPTION
6 Leg Trunking Cable Assemblies:	
TCRD6E-A1A1(XXX)(X)	System 6, riser rated (CMR), double ended flat black MAX modules, blue jacket, 250MHz
TCPD6E-A1A1(XXX)(X)	System 6, plenum rated (CMP), double ended flat black MAX modules, blue jacket, 250MHz
TCLD8E-A1A1(XXX)(X)	System 6, LS0H rated (IEC 60332-1), double ended flat black MAX modules, violet jacket, 250MHz

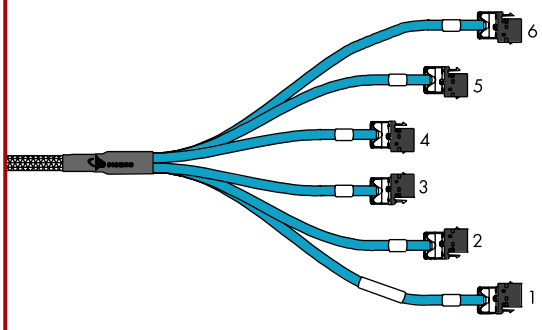
Use (XXX) to specify length:
003-36m in increments of 1 metre
009-120 ft. in increments of 3 feet
Use (X) unit: M = metres, F = feet

Other lengths available upon request.

Note: These products are made to order. Call for lead time and part number availability in your region.

TRIDENT/CENTRE CUT

Description:
Supports left, right or centre exit.



SYSTEM 6 UTP
4-PAIR SOLID ROUND CABLE — US

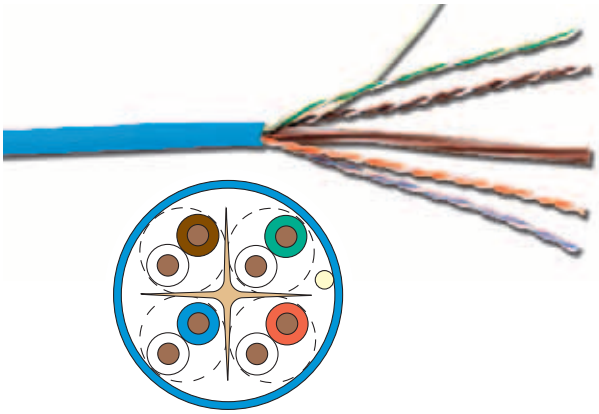
COMPLIANCE
- ISO/IEC 11801:2002 (Category 6)
- TIA/EIA-568-B.2-1
- IEC 61156-5:2002 (Category 6)
- UL CMP and CSA FT6
- UL CMR and CSA FT4

CABLE CONSTRUCTION
- UTP
- 0.543mm (22-23 AWG)solid bare copper
- 5.6mm max jacket diameter
- Round jacket
- Central isolation member

PART # DESCRIPTION
9C6P4-E3-(XX)-RBA ..... Plenum (CMP, CSA FT6) 305m Reel-in-Box

9C6R4-E3-(XX)-RBA ..... Riser (CMR. CSA FT4) 305m Reel-in-Box

Use (XX) to specify jacket colour:
02 = white, 03 = red, 04 = grey, 05 = yellow, 06 = blue, 07 = green



ELECTRICAL SPECIFICATIONS

DC Resistance	<9.38 Ω/100m
DC Resistance Unbalance	5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m.
Characteristic Impedance (ohms)	1-100 MHz: 100 ± 15% 100 - 550 MHz: 100 ± 22%
NVP	CMP— 70% CMR— 68%
LCL	30-10log(f/100)dB
Delay Skew	≤ 35ns

PHYSICAL PROPERTIES

	CMP	CMR
Pulling Tension (max)	110N	110N
Bend Radius (min)	25mm (1 in.)	25mm
Installation Temperature	0 to 60°C	-36 to 60°C
Storage Temperature	-20 to 75°C	-34 to 75°C
Operating Temperature	-20 to 60°C	-34 to 60°C

TRANSMISSION PERFORMANCE

GUARANTEED WORST CASE SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0	2.0	1.8	77.3	87.3	75.3	82.3	72.3	85.5	73.3	80.5	70.8	84.8	68.8	79.8	20.0	29.0	550	545
4.0	3.8	3.5	68.3	78.3	66.3	73.3	64.5	74.8	62.5	69.8	58.8	72.8	56.8	67.8	23.6	32.0	532	527
10.0	5.9	5.6	62.3	72.3	60.3	67.3	56.4	66.7	54.4	61.7	50.8	64.8	48.8	59.8	26.0	38.0	525	520
16.0	7.5	7.1	59.2	69.2	57.2	64.2	51.8	62.1	49.8	57.1	46.7	60.7	44.7	55.7	26.0	34.0	523	518
20.0	8.4	7.9	57.8	67.8	55.8	62.8	49.4	59.9	47.4	54.9	44.8	58.8	42.8	53.8	26.0	34.0	522	517
31.25	10.6	10.0	54.9	64.9	52.9	59.9	44.3	54.9	42.3	49.9	40.9	54.9	38.9	49.9	23.6	32.0	520	515
62.5	15.2	14.4	50.4	60.4	48.4	55.4	35.1	46.0	33.1	41.0	34.9	48.9	32.9	43.9	21.5	32.0	519	514
100.0	19.6	18.6	47.3	57.3	45.3	52.3	27.7	38.7	25.7	33.7	30.8	44.8	28.8	39.8	20.1	32.0	518	513
160.0	25.4	24.1	44.2	54.2	42.2	49.2	18.9	30.1	16.9	25.1	26.7	40.7	24.7	35.7	18.7	31.0	517	512
200.0	28.7	26.8	42.8	52.8	40.8	47.8	14.1	26.0	12.1	21.0	24.8	38.8	22.8	33.8	18.0	29.0	517	512
250.0	32.6	30.5	41.3	51.3	39.3	46.3	8.8	20.8	6.8	15.8	22.8	37.0	20.8	31.8	17.3	29.0	516	511
300.0*	36.1	33.7	40.1	50.0	38.1	45.0	4.0	16.3	2.0	11.3	21.3	36.0	19.3	30.0	16.8	27.0	516	511
400.0*	42.6	40.3	38.3	48.0	36.3	43.0	-4.3	7.7	-6.3	2.7	18.8	32.0	16.8	27.0	15.9	26.0	516	511
500.0*	48.5	39.9	36.8	48.0	34.8	42.0	-11.7	8.1	-13.7	2.1	16.8	31.0	14.8	26.0	15.2	25.0	516	511
550.0*	51.3	39.7	36.2	46.0	34.2	42.0	-15.1	6.3	-17.1	2.3	16.0	30.0	14.0	26.0	14.9	24.0	516	510

**Performance for frequencies above 250 MHz are for information only.*

All performance based on 100 metres.

RELATED PRODUCTS Cable Preparation Tool page 111

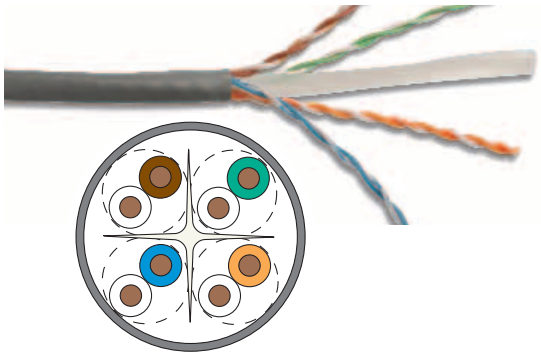
SYSTEM 6 UTP
4-PAIR SOLID ROUND CABLE — INTERNATIONAL

COMPLIANCE
- ISO/IEC 11801:2002 (Category 6)
- TIA/EIA-568-B.2-1
- IEC 61156-5:2002 (Category 6)
- LS0H:IEC 60332-1, IEC 60332-3, IEC 60754, and IEC 61034
- UL CMX
- UL CMR and CSA FT4

CABLE CONSTRUCTION
- UTP
- 0.57mm (23 AWG)
- 6.35mm max jacket diameter
- Round jacket
- Central isolation member

PART #	DESCRIPTION
9C6R4-E3	PVC (CMR, CSA FT4, Riser), Blue Jacket, 305m Reel-in-Box
9C6M4-E3	PVC (CM), Grey Jacket, 305m Reel-in-Box
9C6X4-E3	PVC (CMX, IEC 60332-1), Grey Jacket, 305m Reel-in-Box
9C6L4-E3	LS0H (IEC 60332-1), Violet Jacket, 305m Reel-in-Box
9C6H4-E3	LS0H (IEC 60332-3), Violet Jacket, 305m Reel-in-Box

Other cable lengths also available:
Add "-5CR for 500m Reel, "-1KR for 1000m Reel.



ELECTRICAL SPECIFICATIONS

DC Resistance	<9.38 Ω/100m
DC Resistance Unbalance	5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1 - 250 MHz: 100 ± 15% 100 - 550 MHz: 100 ± 22%
NVP	68%
LCL	30-10log (*f*/100)dB
Delay Skew	≤ 35ns

PHYSICAL PROPERTIES

	LS0H	CMR/CM/CMX
Pulling Tension (max)	110N	110N
Bend Radius (min)	25mm	25mm
Installation Temperature	0 to 60°C	-36 to 60°C
Storage Temperature	-20 to 75°C	-34 to 75°C
Operating Temperature	-20 to 60°C	-34 to 60°C

TRANSMISSION PERFORMANCE

TIA/EIA & ISO/IEC SIEMON TYPICAL

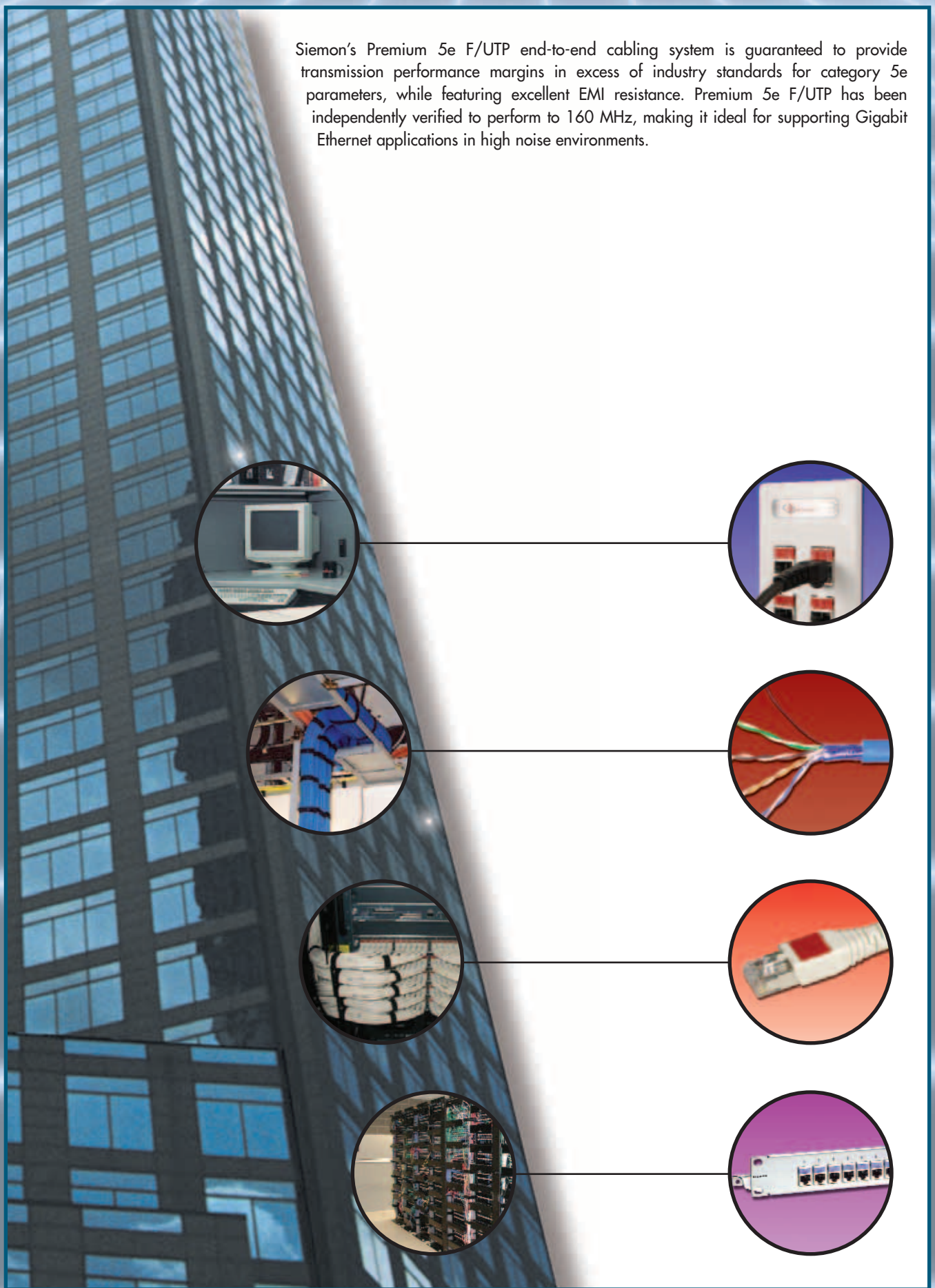
Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0	2.1	1.8	74.3	87.3	72.3	82.3	72.2	85.5	70.2	80.5	67.8	84.8	64.8	79.8	20.0	29.0	570	545
4.0	3.8	3.5	65.3	78.3	63.3	73.3	61.4	74.8	59.4	69.8	55.8	72.8	52.8	67.8	23.0	32.0	552	527
10.0	6.0	5.6	59.3	72.3	57.3	67.3	53.3	66.7	51.3	61.7	47.8	64.8	44.8	59.8	25.0	38.0	545	520
16.0	7.6	7.1	56.2	69.2	54.2	64.2	48.6	62.1	46.6	57.1	43.7	60.7	40.7	55.7	25.0	34.0	543	518
20.0	8.5	7.9	54.8	67.8	52.8	62.8	46.2	59.9	44.2	54.9	41.8	58.8	38.8	53.8	25.0	34.0	542	517
31.25	10.8	10.0	51.9	64.9	49.9	59.9	41.1	54.9	39.1	49.9	37.9	54.9	34.9	49.9	23.6	32.0	540	515
62.5	15.5	14.4	47.4	60.4	45.4	55.4	31.9	46.0	29.9	41.0	31.9	48.9	28.9	43.9	21.5	32.0	539	514
100.0	19.9	18.6	44.3	57.3	42.3	52.3	24.4	38.7	22.4	33.7	27.8	44.8	24.8	39.8	20.1	32.0	538	513
160.0	25.8	24.1	41.2	54.2	39.2	49.2	15.5	30.1	13.5	25.1	23.7	40.7	20.7	35.7	18.7	31.0	537	512
200.0	29.0	26.8	39.8	52.8	37.8	47.8	10.6	26.0	8.6	21.0	21.8	38.8	18.8	33.8	18.0	29.0	537	512
250.0	33.0	30.5	38.3	51.3	36.3	46.3	5.3	20.8	3.3	15.8	19.8	37.0	16.8	31.8	17.3	29.0	536	511
300.0*	36.6	33.7	37.1	50.0	35.1	45.0	0.5	16.3	-1.5	11.3	18.3	36.0	15.3	30.0	16.8	27.0	536	511
400.0*	43.0	40.3	35.3	48.0	33.3	43.0	-7.9	7.7	-9.9	2.7	15.8	32.0	12.8	27.0	15.9	26.0	536	511
500.0*	48.9	39.9	33.8	48.0	31.8	42.0	-15.4	8.1	-17.4	2.1	13.8	31.0	10.8	26.0	15.2	25.0	536	511
550.0*	51.8	39.7	33.2	46.0	31.2	42.0	-18.8	6.3	-20.8	2.3	13.0	30.0	10.0	26.0	14.9	24.0	536	510

**Performance for frequencies above 250 MHz are for information only.*

All performance based on 100 metres.

RELATED PRODUCTS Cable Preparation Tool page 111

Siemon's Premium 5e F/UTP end-to-end cabling system is guaranteed to provide transmission performance margins in excess of industry standards for category 5e parameters, while featuring excellent EMI resistance. Premium 5e F/UTP has been independently verified to perform to 160 MHz, making it ideal for supporting Gigabit Ethernet applications in high noise environments.



PREMIUM 5e F/UTP SCREENED MAX® MODULES

The screened MAX module is the cornerstone of our Premium 5e screened cabling systems. This product not only meets all TIA/EIA component specifications, but also exceeds ISO/IEC 11801 2nd edition and EN50173 2nd edition requirements for transfer impedance and shield effectiveness. Category 5e modules are qualified to 200 MHz.

200 MHz
Category 5e component compliant to 200 MHz

1. **Fully Screened** — Design optimises shield effectiveness for protection from EMI
2. **Easy Identification** — Coloured icons provided for port identification
3. **Variety** — Angled, flat and keystone outlets available
4. **Rear Shield Protection** — Robust rear shield protects IDC terminations and maintains shield effectiveness
5. **Easy Termination** — Tool-less termination makes termination quick and easy — in less than 3 minutes
6. **Universal Compatibility** — Compatible with both T568A/B schemes
7. **Integrated Grounding** — No separate grounding tabs required

DECREASED TERMINATION TIME
Premium 5e screened MAX modules can be terminated in less than three minutes.

FOR THE DATA CENTRE AND WORK AREA
Premium 5e screened MAX is designed for use with both TERA-MAX patch panels and 10G MAX faceplates.

QUICK-GROUND™ SHIELD TERMINATION
No additional steps required for termination. Cable shield is automatically terminated within the outlet without of additional steps or tools.

PREMIUM 5e F/UTP SCREENED MAX MODULES

PATENTED

The Premium 5e screened MAX module is packed with time saving features. Our innovative tool-less design allows all 4 pairs to be mass terminated with a pair of channel locks. Use our patented cable preparation tool (CPT-RGTP) and the end result is an outlet that can be terminated quickly and easily while maintaining a full shielded connection for better Electromagnetic Compatibility (EMC) performance. Outlets terminate all shielded and screened cable constructions 22 – 24 AWG (0.64 – 0.51mm) size conductors.

MX5-FS.....
Flat Premium 5e screened MAX module, T568A/B

MX5-S.....
Angled Premium 5e screened MAX module, T568A/B

MX5-KS.....
Keystone Premium 5e screened MAX module, T568A/B

Modules include one red and one blue icon.
Note: Keystone version is designed for integration with various international mounting products and is not compatible with MAX mounting hardware.
Doors available separately.

TECHNICAL TIP!
Screened MAX modules are not side-stackable in standard MAX faceplates. 10G MAX faceplates are recommended or use a blank between outlets.

RELATED PRODUCTS 10G MAX Modular and CT® Faceplates pages 98-102; AllPrep™ Cable Preparation Tool page 111

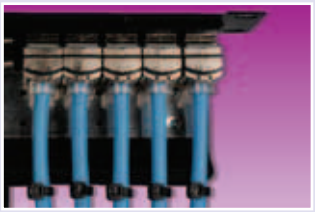
TERA®-MAX® PATCH PANELS

TERA-MAX 19 inch patch panels provide outstanding performance and reliability in a shielded, high-density modular solution. As outlets are snapped into place, resilient ground tabs assure that each outlet and cable is properly grounded for maximum protection from outside interference. No secondary grounding operations are required, reducing overall installation time. Built-in cable management and strain relief are integrated onto the rear of panel.

1. **Standard Fit** — Panels can be mounted directly on standard 19 inch rack or cabinet
2. **Durable** — Lightweight, high strength steel with black or metallic finish
3. **High Density** — 24 ports in just 1 U
4. **Installation Friendly** — Individual modules snap easily into place, providing integrated grounding without additional steps
5. **Port Identification** — Bold port numbering enables quick identification of outlets

INTEGRATED GROUNDING
Panels feature integrated grounding via resilient ground tabs automatically engage during module insertion.

SLIM DESIGN
Use flat screened MAX modules in TERA-MAX patch panel for high density telecommunications room applications.



CABLE MANAGEMENT
Integral rear cable manager facilitates the orderly routing of horizontal cables as well as maintaining proper bend radius for optimum performance.

TERA-MAX PATCH PANELS

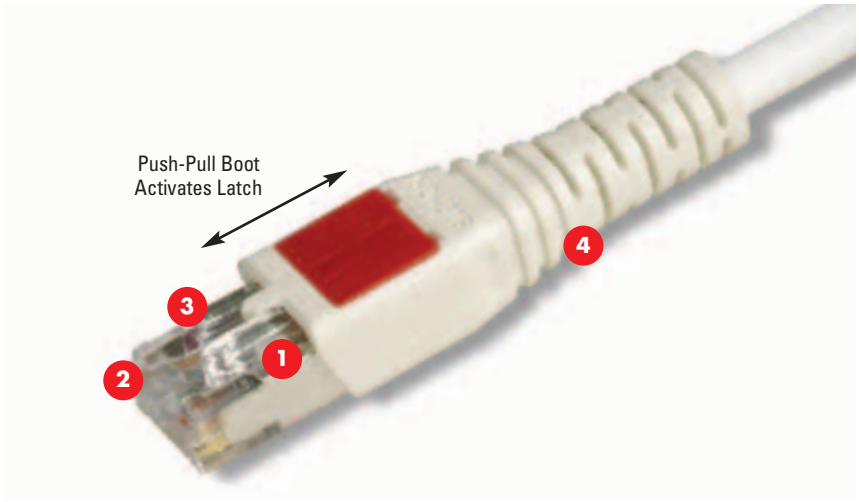
PART #	DESCRIPTION	U
TM-PNL-16-01	16-port TERA-MAX panel, black	1
TM-PNL-16	16-port TERA-MAX panel, metallic	1
TM-PNL-24-01	24-port TERA-MAX panel, black	1
TM-PNL-24	24-port TERA-MAX panel, metallic	1

Panels include designation labels, cable ties and mounting hardware.

Note: 1 U = 44.5mm

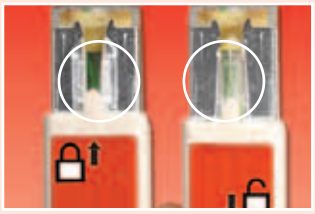
PREMIUM 5e F/UTP SCREENED BLADEPATCH® MODULAR CORDS

Siemon's Premium 5e BladePatch patch cords offer a unique solution for high-density patching environments. They feature an innovative push-pull boot design to control the latch, enabling easy access and removal of the cord in tight-fitting areas. The BladePatch cords are ideal for patching high density blade servers, patch panels, or any equipment with RJ-45 outlets.



1. **Revolutionary Design** — Patented push-pull latch design eliminates need to defeat thumb latch used in standard modular plug designs. Enables easy access and removal in high density patching environments
2. **Universal Wiring** — Compatible with T568A/B wiring schemes
3. **Snagless** — Push-pull design eliminates external thumb latch which can snag and break
4. **Low Profile Boot Design** — Optimises side-stackability of patch cords and allows use in even the most dense equipment

UNIVERSAL COMPATIBILITY
Fits within any standard RJ-45 outlet.



REVOLUTIONARY LATCH
Simply push the boot forward to latch into the outlet and pull back to release.

HIGH DENSITY
The push-pull design enables easy access and removal via the boot in tight-fitting areas.

PREMIUM 5e SCREENED BLADEPATCH MODULAR PATCH CORDS

PATENTED

PART #	DESCRIPTION
BP5S-(XX)M-(XX)L	Premium 5e screened BladePatch, double-ended, 4-pair stranded modular cord, with push-pull latching design, colour matching cord/boot, T568A/B, LS0H

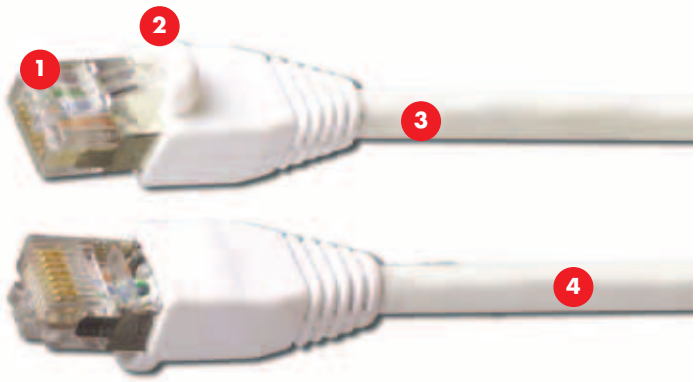
Use 1st (XX) to specify cord length: 01 = 1m, 02 = 2m, 03 = 3m, 05 = 5m

Use 2nd (XX) to specify colour: 01 = black, 02 = white, 03 = red, 04 = grey, 05 = yellow, 06 = blue, 07 = green

Ⓑ Add "B" for bulk project pack of 100 modular cords.

PREMIUM 5e F/UTP SCREENED MC® MODULAR CORDS

Siemon's screened MC modular cords are manufactured using stranded screened cable that meets all category 5e specifications. Modular plugs have an overall shield and meet TIA-968-A and IEC 60603-7 specifications. T568A/B wired assemblies include coloured strain-relief boots and are available in a wide range of lengths. Shielded modular plugs are also available separately.



1. **Universal Wiring** — Compatible with T568A/B wiring schemes
2. **Latch Guard** — Boots feature a latch guard to protect plug from snagging when pulling through pathways or cable managers
3. **Colour Options** — Variety of colour options available for proper circuit identification
4. **Superior Quality** — Quality plug components ensure long term resistance to corrosion from humidity, extreme temperatures, and airborne contaminants

TECHNICAL TIP!
Factory terminated and tested modular cords are required to achieve consistent category 5e or higher compatibility. Field termination is not recommended and is not compliant with Siemon warranty.

FACTORY-TESTED
Cords are factory terminated and transmission tested to ensure compliance with applicable standards requirements.

COMPLIANCE

- Plug geometry meets TIA-968-A and IEC 60603-7 specifications for modular plugs
- Exceeds ISO/IEC 11801:2002 requirements for transfer impedance, coupling attenuation and shield effectiveness
- Stranded Cable: IEC 61156-6:2002 Compliant
- LS0H Cordage: IEC 60332-1, IEC 60754, and IEC 61034 compliant

EXCELLENT BEND RELIEF
Boot ensures proper bend relief.

PREMIUM 5e SCREENED MC MODULAR CORDS

PATENTED

Siemon's Premium 5e screened cords are factory-assembled and tested using laboratory-grade network analysers to ensure assembly is compatible with Premium 5e systems. Choose Siemon Premium 5e screened modular cords for a perfectly matched, end-to-end channel solution with unparalleled performance.

PART #	DESCRIPTION
MC5S-(XX)M-(XX)L.	Premium 5e screened MC, double ended, 4-pair stranded modular cord, colour matching jacket/boot, T568A/B, LS0H

Use 1st (XX) to specify length: 01 = 1m, 02 = 2m, 03 = 3m, 05 = 5m
Use 2nd (XX) to specify colour: 01 = black, 02 = white, 03 = red, 05 = yellow, 06 = blue, 07 = green
Ⓑ Add "B" to end of part number for bulk project pack of 100 cords.

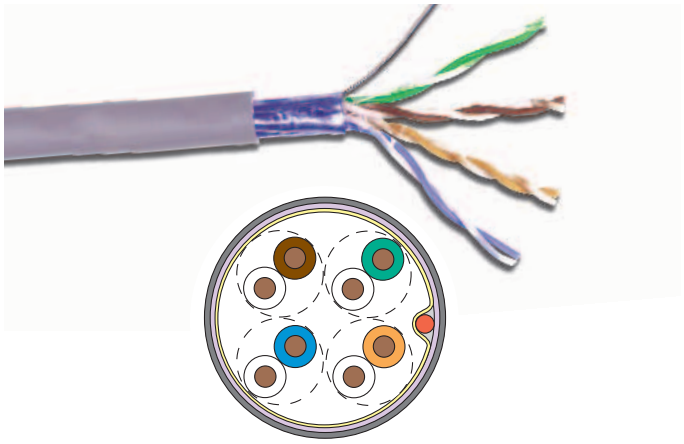
PREMIUM 5e F/UTP
4-PAIR SOLID ROUND CABLE — INTERNATIONAL

COMPLIANCE
- ISO/IEC 11801:2002 (Category 5e)
- ANSI/TIA/EIA-568-B.2 (Category 5e)
- IEC 61156-5:2002 (Category 5e)
- LS0H: IEC 60332-1, IEC 60754 and IEC 61034
- UL CMX
- UL CMR and CSA FT4
- UL CMP and CSA FT6

CABLE CONSTRUCTION
- F/UTP
- 0.5mm (24 AWG) solid bare copper
- 7.4mm max jacket diameter
- 1.0mm max conductor insulation diameter
- Shield is an aluminium foil tape enclosing a 0.5mm tinned copper drain wire

PART #	DESCRIPTION
9A5R4-E2	PVC (CMR, CSA FT4), Blue Jacket, 305m Reel-in-Box
9A5P4-E2	Plenum, (CMP, CSA FT6), Blue Jacket, 305m Reel-in-Box
9A5X4-E2	PVC (CMX, IEC 60332-1), Grey Jacket, 305m Reel-in-Box
9A5L4-E2	LS0H (IEC 60332-1), Violet Jacket, 305m Reel-in-Box

Other cable lengths also available:
Add "-5CR for 500m Reel, "-1KR for 1000m Reel



ELECTRICAL SPECIFICATIONS

DC Resistance	<9.38 Ω/100m.
DC Resistance Unbalance	5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1 - 100 MHz: 100 ± 15% 100 - 250 MHz: 100 ± 22%
NVP	69%
LCL	40-10 x log(*f*)dB
Delay Skew	≤ 40ns

PHYSICAL PROPERTIES

	CMP/LS0H	CMR/CMX
Pulling Tension (max)	110N	110N
Bend Radius (min)	25mm	25mm
Installation Temperature	0 to 60°C	-36 to 60°C
Storage Temperature	-20 to 75°C	-34 to 75°C
Operating Temperature	-20 to 60°C	-34 to 60°C

TRANSMISSION PERFORMANCE

TIA/EIA & ISO/IEC SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0	2.1	1.9	65.3	79.3	62.3	72.3	63.2	77.4	60.2	70.4	63.8	84.8	60.8	78.8	20.0	27.0	570	545
4.0	4.1	3.7	56.3	70.3	53.3	63.3	52.2	66.6	49.2	59.6	51.8	72.8	48.8	66.8	23.0	32.0	552	527
10.0	6.5	5.8	50.3	64.3	47.3	57.3	43.8	58.5	40.8	51.5	43.8	64.8	40.8	58.8	25.0	32.0	545	520
16.0	8.3	7.4	47.2	61.2	44.2	54.2	39.0	53.8	36.0	46.8	39.7	60.7	36.7	54.7	25.0	32.0	543	518
20.0	9.3	8.3	45.8	59.8	42.8	52.8	36.5	51.5	33.5	44.5	37.8	58.8	34.8	52.8	25.0	32.0	542	517
31.25	11.7	10.5	42.9	56.9	39.9	49.9	31.1	46.4	28.1	39.4	33.9	54.9	30.9	48.9	23.6	30.0	540	515
62.5	17.0	15.0	38.4	52.4	35.4	45.4	21.4	37.4	18.4	30.4	27.9	48.9	24.9	42.9	21.5	30.0	539	514
100.0	22.0	19.3	35.3	49.3	32.3	42.3	13.3	30.0	10.3	23.0	23.8	44.8	20.8	38.8	20.1	30.0	538	513
160.0*	28.6	25.1	32.2	46.2	29.2	39.2	3.7	21.1	0.7	14.1	19.7	40.7	16.7	34.7	18.7	28.0	537	512
200.0*	32.4	28.1	30.8	44.8	27.8	37.8	-1.6	16.7	-4.6	9.7	17.8	38.8	14.8	32.8	18.0	27.0	536	512
250.0*	36.9	31.4	29.3	43.3	26.3	36.3	-7.5	11.9	-10.5	4.9	15.8	36.8	12.8	30.8	17.3	26.0	536	511
300.0*	41.0	34.5	28.1	42.1	25.1	35.1	-12.8	7.6	-15.8	0.6	14.3	35.3	11.3	29.3	16.8	25.0	536	511
350.0*	44.9	39.4	27.1	41.1	24.1	34.1	-17.7	1.7	-20.7	-5.3	12.9	33.9	9.9	27.9	16.3	24.0	536	511

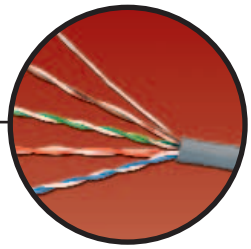
**Values above 100 MHz are informational only.*

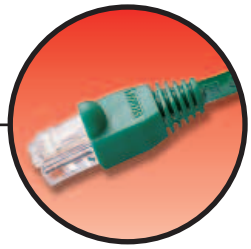
All performance based on 100 metres.

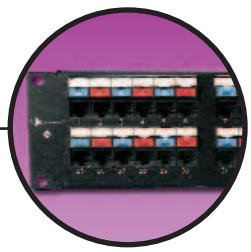
RELATED PRODUCTS Cable Preparation Tool page 111

Siemon's end-to-end Premium 5e UTP cabling solution is guaranteed to provide transmission performance margins in excess of industry standards for category 5e/class D parameters, and has been independently verified to perform to 160 MHz, making it ideal for supporting Gigabit Ethernet applications.

Including a wide variety of work area, patch cord, panel and connecting block options, as well as high-quality Siemon cable, Premium 5e represents the ultimate in category 5e/class D performance and flexibility.

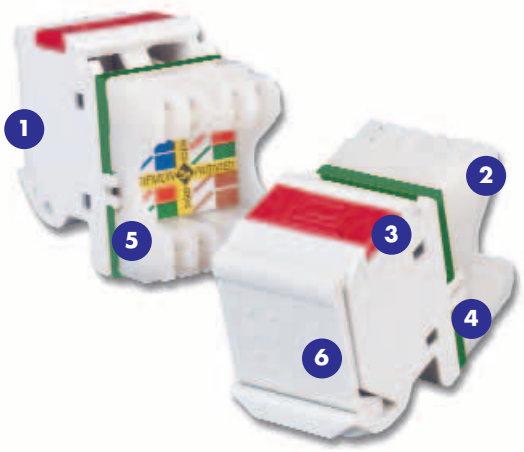




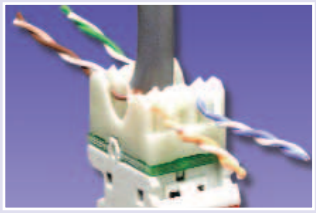


PREMIUM 5e UTP MAX® MODULES

Part of Siemon's Premium 5e UTP end-to-end Cabling Solution, the Premium 5e MAX modules exceed category 5e performance with component and channel performance to 160 MHz (Performance from 100 - 160 MHz based upon extrapolated TIA/EIA limits). These modules offer all the functional advantages of our System 6 MAX modules and a variety of colour options. All modules utilise our 310 punch-down block — making termination quick and easy. Modules can be used for either T568A or T568B wiring configurations.



1. **Easy Installation** — Install from either front or rear of faceplate
2. **Easy Termination** — Terminates with standard 110 termination tools
3. **Quick Identification** — Icons provided for port identification
4. **Slim Design** — Allows jacks to be side-stacked in faceplates to provide maximum density
5. **Universal Wiring** — T568A and T568B wiring compatible
6. **Protective Doors** — Minimise exposure to dust and other contaminants



QUICK INSTALLATION
Pyramid wire entry system on S310® blocks separates paired conductors when lacing cables to simplify and reduce installation time.

TERMINATION
Siemon's Palm Guard with MAX insert assists in securing module during termination.

SUPERIOR PERFORMANCE
Use Premium 5e modular cords to perfectly match performance of Premium 5e MAX modules.

PREMIUM 5e UTP MAX MODULES

MX5-(XX) .....
Angled MAX module, T568A/B,
rear strain relief cap and protective
colour-matching rubber door

MX5-F(XX) .....
Flat MAX module, T568A/B,
rear strain relief cap

MX5-K(XX) .....
Keystone MAX module, T568A/B,
rear strain relief cap

Use (XX) to specify colour: 01 = black, 02 = white, 03 = red, 04 = grey, 05 = yellow, 06 = blue, 07 = green, 09 = orange, 20 = ivory, 25 = bright white, 80 = light ivory, 82 = alpine white

Angled modules include one colour-matching, one red, and one blue icon.
Door colour is clear for red, yellow, blue and orange angled modules.

Flat modules include one colour-matching, one red, and one blue icon.
Add "-D" for optional colour-matching door.
Door colour is white for red, yellow, blue, green, and orange modules.

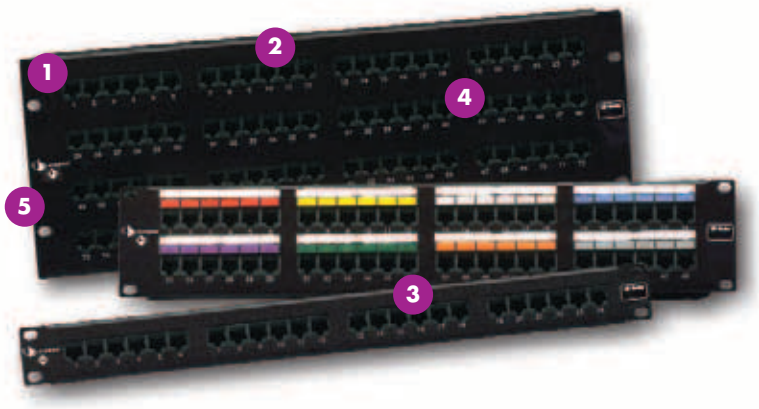
Keystone version is designed for integration with various international mounting products and is not compatible with MAX mounting hardware.

Ⓑ *Add "B" to end of part number for bulk project pack of 100 modules (angled and flat modules include icons).*

RELATED PRODUCTS MAX Modular Faceplates pages 99-100; MX-SM Surface Mount Box page 104; MAX MuTOA page 105

PREMIUM 5e UTP HD® PATCH PANELS

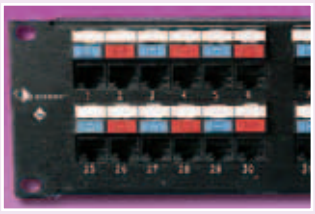
Premium 5e HD series patch panels offer the most robust patching solution in the industry. Premium 5e HD panels feature universal T568A/B wiring and exceed category 5e requirements with component and channel performance patented to 160 MHz. Compliant pin technology enables the use of multi-pair S110® punch-down tools to reduce termination time.



1. **Universal Wiring** — Premium 5e HD patch panels feature universal wiring for both T566A/B
2. **Aesthetics** — Front surface is uninterrupted by screw heads for a clean appearance
3. **Installer Friendly** — Panels available in 16-, 24-, 32-, 48- and 96-port configurations
4. **Port Identification** — Bold port numbering enables quick identification of outlets
5. **Standard Fit** — Panels can be mounted directly on standard 19 inch rack or cabinet

COMPLIANT PIN TECHNOLOGY
Allows the use of Siemon's multi-pair impact tool to significantly reduce termination time. S110 termination opening on the rear are compatible with S110 patch plugs.

REAR CABLE MANAGEMENT
Integrated rear cable manager properly guides cables to and from the rear of the panel.

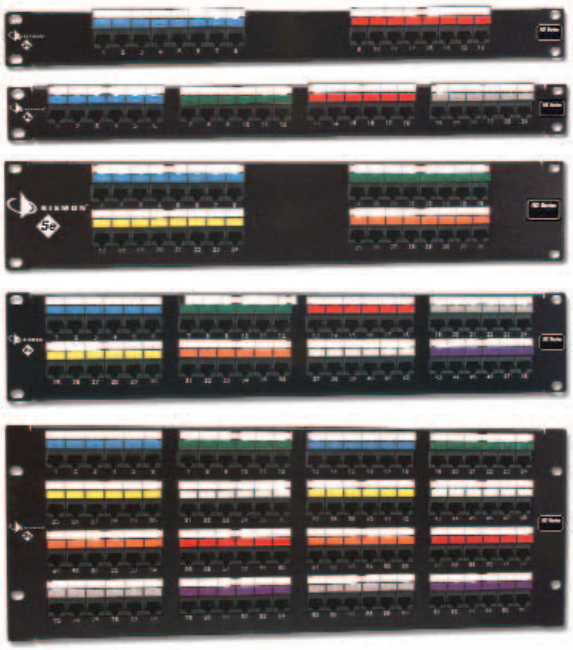


QUICK IDENTIFICATION
Icon and label holder kits are included with every panel.

PREMIUM 5e UTP HD PATCH PANELS

PATENTED

PART #	DESCRIPTION	U
HD5-16	16-port Premium 5e UTP HD patch panel	1
HD5-24	24-port Premium 5e UTP HD patch panel	1
HD5-32	32-port Premium 5e UTP HD patch panel	2
HD5-48	48-port Premium 5e UTP HD patch panel	2
HD5-96	96-port Premium 5e UTP HD patch panel	4



Panels include rear cable manager, icon/label holders, designation labels, cable ties, and mounting hardware.

Ⓑ *Add "B" for bulk project pack of 5 panels (rear cable managers [p/n: HD-RWM] not included but can be ordered separately).*

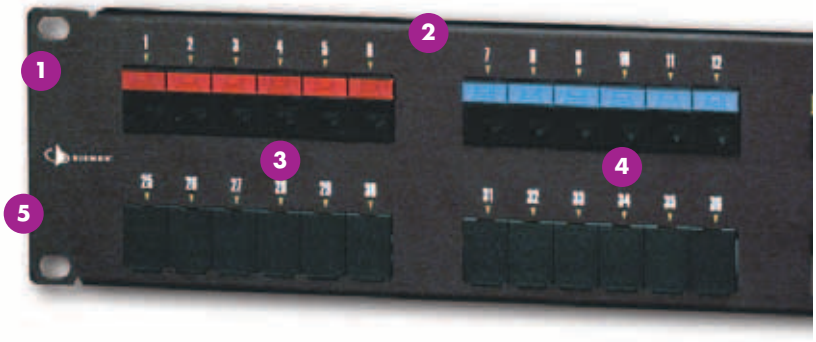
Note: 1 U = 44.5mm

16- and 32-port Premium 5e HD panels feature S310® termination blocks.

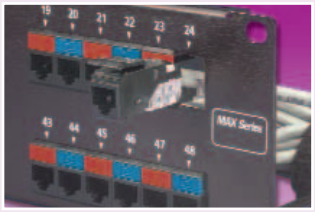
S310® termination blocks are not compatible with S110® multi-pair termination tools.

MAX® PATCH PANELS

MAX patch panels provide a flexible, high density termination solution for the telecommunications room. Using the full line of MAX modules (available separately), the panel can be configured for a variety of multimedia applications. Blank modules can be used to reserve ports for future capacity.



1. **High Density Design**— Accommodates up to 24 ports per U
2. **Aesthetics** — Lightweight, high strength brushed aluminium with black protective finish
3. **Installer Friendly** — Icon label holders and designation labels included
4. **Port Identification** — Bold port numbering enables quick identification of outlets
5. **Standard Fit** — Panels can be mounted directly on standard 19 inch rack or cabinet



INSTALLATION FRIENDLY
Individual modules snap into place from front or rear of panel for added installation flexibility.

DESIGNATION LABELS
Removable designation labels can be laser printed and enable proper circuit identification for each port.

MAX PATCH PANELS

PATENTED

PART #	DESCRIPTION	U
MX-PNL-16	16-port MAX patch panel	1
MX-PNL-24	24-port MAX patch panel	1
MX-PNL-48	48-port MAX patch panel	2
MX-PNL-72	72-port MAX patch panel	2

Panels include rear cable manager, designation labels, cable ties, and mounting hardware.
MAX Panels are not compatible with screened MAX modules. Use the TERA®-MAX panel.

ANGLED MAX PATCH PANELS

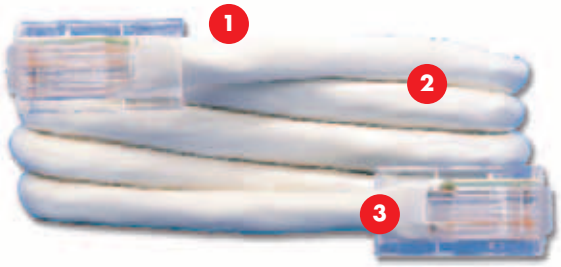
Siemon's MAX series angled patch panels route cables directly into the vertical cable managers eliminating the need for horizontal cable management between panels.

PART #	DESCRIPTION	U
MX-PNLA-24	24-port angled MAX patch panel	1
MX-PNLA-48	48-port angled MAX patch panel	2

Panels include mounting hardware. Rear cable manager not included.
Angled MAX panels are not compatible with screened MAX modules. Use the TERA-MAX panel.
Angled MAX panels are not recommended for use with RS2 or RS3 rack series. Use the RS series racks.
Note: 1 U = 44.5mm

PREMIUM 5e UTP MC® MODULAR CORDS

Siemon uses the highest quality components combined with stringent manufacturing processes to produce the best performing, most durable modular patch cords available. The end result is a cord that exceeds all TIA/IEA and ISO/IEC component specifications for transmission performance.



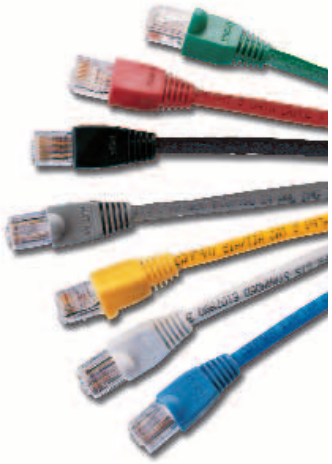
1. **Bend Fatigue** — 24 AWG (7 stands @ 0.20mm) stranded wire for longer bend fatigue life
2. **High Performance** — Premium 5e MC cords are constructed using high performance Siemon category 5e cable
3. **Modular Plugs** — Exceed FCC CFR 47 part 68 subpart F and IEC 60603-7 specifications and have 50 microinches minimum of gold plating over nickel

LATCH GUARD
The Premium 5e MC boot design incorporates a latch guard to protect the plug latch from snagging when pulling cords through pathways or cable managers.

FACTORY TERMINATED
Cords are tested to consistently achieve category 5e compatibility. Field termination is not recommended.

PREMIUM 5e UTP MC MODULAR CORDS

All Siemon Premium 5e MC modular cords are assembled using premium stranded cable that exceeds category 5e specifications. Premium 5e MC modular cords are available in several colours with or without a coloured boot.

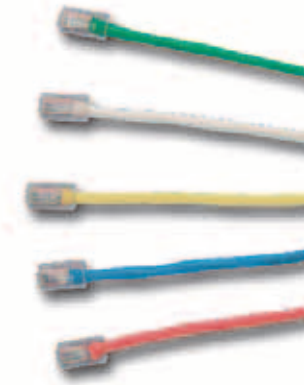


WITH BOOT

PART #	DESCRIPTION
MC5-8T-(XX)-B(XX)C	Premium 5e UTP MC Double-ended, 4-pair stranded modular cord, colour matching jacket/boot, T568A/B, CMG

WITHOUT BOOT

PART #	DESCRIPTION
MC5-8-T-(XX)-(XX)	Premium 5e UTP MC Double-ended, 4-pair stranded modular cord, no boot, T568A/B, CMG



Use 1st (XX) to specify cord length:
03 = 0.91m (3 ft.), 05 = 1.52m, 07 = 2.13m, 10 = 3.05m, 15 = 4.57m, 20 = 6.10m
Use 2nd (XX) to specify colour:
01 = black, 02 = white, 03 = red, 04 = grey, 05 = yellow, 06 = blue, 07 = green
Ⓑ Add "B" for bulk project pack of 100 modular cords.

TECHNICAL TIP!
Note: System 6® and Premium 5e products are backward compatible with our Premium 5e MC modular cords. For example when a Premium 5e MC modular cord is used in a System 6 channel with System 6 MAX® modules, Siemon guarantees Premium 5e system performance.

PREMIUM 5e UTP IC SOLID SINGLE-ENDED MODULAR CORDS

Siemon's solid, single-ended IC5 cable assemblies are designed for patching between the consolidation point and the work area (CMP) or as equipment cords in cross-connect applications (CMR). These assemblies are constructed using cable that exceeds all category 5e specifications.

PART #	DESCRIPTION
IC5-8T-(XX)	Premium 5e IC, single-ended, 4-pair UTP solid modular cord, T568A, grey jacket, w/o boot, CMR
IC5-8A-(XX)	Premium 5e IC, single-ended, 4-pair UTP solid modular cord, T568B, grey jacket, w/o boot, CMR
IC5-8T-(XX)-B(XX)P	Premium 5e IC, single-ended, 4-pair UTP solid modular cord, T568A, blue jacket, with coloured boot, CMP
IC5-8A-(XX)-B(XX)P	Premium 5e IC, single-ended, 4-pair UTP solid modular cord, T568B, blue jacket, with coloured boot, CMP

Use 1st (XX) to specify cord length:
10 = 3.1m, 20 = 6.1m, 30 = 9.1m, 40 = 12.2m, 50 = 15.2, 60 = 18.3m
Use 2nd (XX) to specify boot colour: 02 = white, 06 = blue

PREMIUM 5e S110® TO MC® CABLE ASSEMBLIES

PATENTED

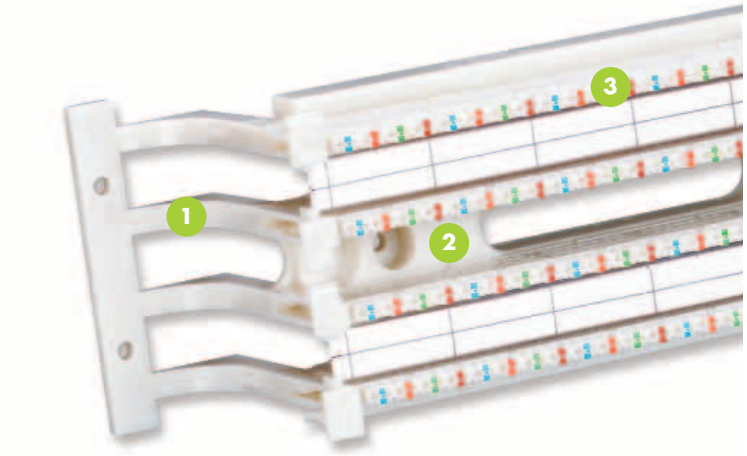
The S110 to modular cable assemblies combine Siemon's highest performing plugs for patching network equipment to S110 connecting blocks or providing test access to S110 termination fields. The combination of plugs, high performance cable and factory transmission testing ensures performance is compatible with Premium 5e systems.

PART #	DESCRIPTION
S110P4-A4-(XX)	Premium 5e, 4-pair, S110-to-modular plug, T568B, standard cable assembly, CMG
S110P4-T4-(XX)	Premium 5e, 4-pair, S110-to-modular plug, T568A, standard cable assembly, CMG
S110P2-UT-(XX)	Premium 5e, 2-pair, S110-to-modular 8-position plug, Token Ring, T568A, standard cable assembly, CMG
S110P2-E2-(XX)	Premium 5e, 2-pair, S110-to-modular 8-position plug, 10/100BASE-T, T568B, standard cable assembly, CMG
S110P1-U1-(XX)	Premium 5e, 1-pair, S110-to-modular 6-position plug, USOC, standard cable assembly, CMG
S110P1-U4-(XX)	Premium 5e, 1-pair, S110-to-modular 8-position plug, USOC, standard cable assembly, CMG

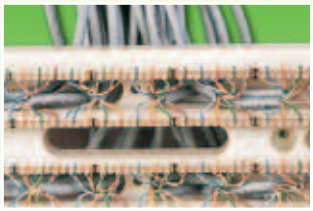
Use 1st (XX) to specify length:
03 = 0.91m, 05 = 1.5m, 07 = 2.13m, 10 = 3.05m, 15 = 4.57m, 20 = 6.10m

S110® WIRING BLOCKS

Siemon S110 field termination kits combine category 5e performance with unparalleled installation features. Each kit includes connecting blocks to complete each 25-pair termination strip on the S110 wiring block (e.g. S110AB2-100FT) includes five 4-pair and one 5-pair connecting block per 25-pair termination strip, or a total of twenty 4-pair and four 5-pair connecting blocks).

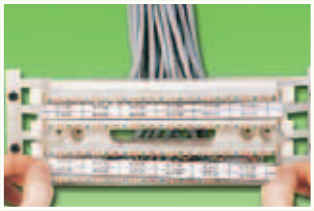


1. **Durable Design** — Rugged high impact, flame-retardant polycarbonate easily withstands force of impact tools
2. **Multi-Application Support** — Ideal for use in cross-connect and consolidation point applications
3. **Block Markings** — Termination strips on the base are marked in 5-pair increments. Connecting blocks are colour-coded



CABLE ACCESS OPENINGS
Allow horizontal cables to be routed from behind the panel and enter the block from the rear, helping maintain cable geometry.

DETACHABLE BLOCKS
Another patented Siemon innovation allows 50- and 100-pair wiring blocks to be detached from their mounting legs providing easy access to cables.



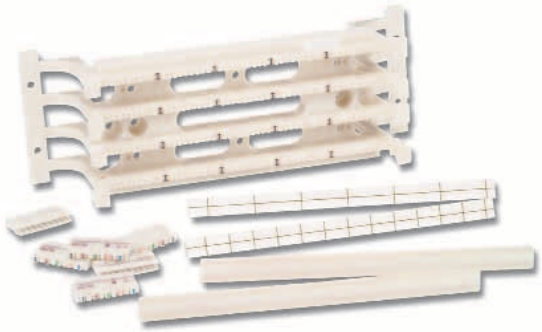
LABELLING
Designation strips with interchangeable coloured labels can be mounted in the centre and/or outside positions of the wiring block.

S110 FIELD TERMINATION KITS

PATENTED

Complete S110 installation kits include S110 wiring blocks with detachable legs*, S110 connecting blocks, and label holders with white designation labels.

PART #	DESCRIPTION
S110A(X)1-50FT	50-pair S110 field termination kit *height: 45.7mm,* *width: 272mm,* *depth: 82.8mm*
S110A(X)2-100FT	100-pair S110 field termination kit *height: 91.4mm,* *width: 272mm,* *depth: 82.8mm*
S110A(X)2-300FT*	300-pair S110 field termination kit *height: 274mm,* *width: 272mm,* *depth: 82.8mm*

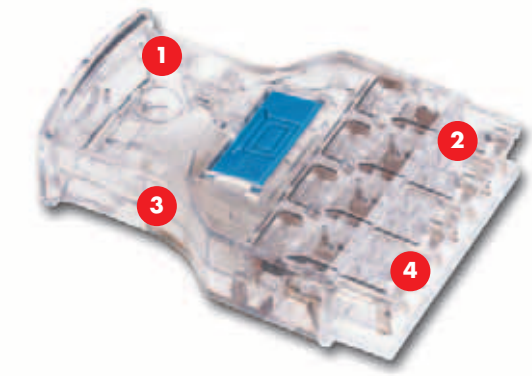


Use (X) to specify connecting block size: A = 5-pair, B = 4-pair

**Legs detachable on 50- and 100-pair version only.*

S110® PATCH PLUGS

Siemon S110 patch plugs are both category 5e compliant and can be field-terminated to either solid or stranded cable. 4-pair S110 patch plugs employ a patented design to improve electrical isolation between pairs, enhancing cross-talk performance so that the mated plug and connecting block significantly exceed TIA/EIA-568-B category 5e transmission requirements.



1. **Ergonomic Handle** — Aids insertion and removal of patch plug
2. **Clear Housing** — Durable, flame-retardant, clear thermoplastic housing keeps conductors visible during and after termination
3. **Directional Arrow** — Enable easy field termination
4. **Polarisation** — Each plug housing includes polarisation features to ensure proper tip-ring orientation during connection

FIELD INSTALLABLE
Terminates 24-26 AWG (0.40mm-0.51mm) solid or 7-strand twisted-pair cable.

EASY TERMINATION
Simply snap the base and cover together to mass terminate all conductors.

S110 PATCH PLUGS

PATENTED

S110P4 .....
4-pair, field-terminated,
S110 patch plug

S110P3 .....
3-pair, field-terminated,
S110 patch plug

S110P2 .....
2-pair, field-terminated,
S110 patch plug

S110P1* .....
1-pair, field-terminated,
S110 patch plug

Ⓑ Add "-B" to end of part number for bulk project pack of 100 patch plugs.
**S110P1 includes protective insert for use with single pair cross-connect wire.*
Coloured icons are not included.

S110 CABLE ASSEMBLIES

PATENTED

The S110 cable assemblies utilise Siemon's S110P4 patch plugs for easy and reliable connections between S110 termination fields. These assemblies use high performance stranded cable which exceeds category 5e specifications and are factory transmission tested to ensure optimum category 5e channel performance. Coloured icons are available for colour-coding S110 plugs.

PART #	DESCRIPTION
S110P4-P4-(XX)	4-pair, double-ended stranded S110 cord, CMG
S110P2-P2-(XX)	2-pair, double-ended stranded S110 cord, CMG
S110P1-P1-(XX)	1-pair, double-ended stranded S110 cord, CMG

Use (XX) to specify length: 03 = 0.91m, 05 = 1.5m, 07 = 2.13m, 10 = 3.05m, 15 = 4.57m, 20 = 6.10m

S110® 19 INCH FIELD TERMINATION PANELS

PATENTED

S110 panels allow wiring blocks to be mounted directly to a 19 inch EIA rack or cabinet. Each panel includes adequate connecting blocks to complete each 25-pair termination strip on the S110 block (e.g. S110DB1-100RFT would include five 4-pair and one 5-pair connecting block per 25-pair termination strip, or a total of twenty 4-pair and four 5-pair connecting blocks).

PART #	DESCRIPTION	U
S110D(X)1-100RFT	100-pair, 19 inch panel, S110 field termination kit	1
S110D(X)1-200RFT	200-pair, 19 inch panel, S110 field termination kit	2
S110D(X)1-300RFT	300-pair, 19 inch panel, S110 field termination kit	3

Use (X) to specify connecting block size: A = 5-pair, B = 4-pair

Note: 1 U = 44.5mm

S110 TOWER® FIELD TERMINATION KITS

PATENTED

The S110 Tower System provides a modular high-density cross-connect cable management system. S110 Tower Systems are shipped unassembled to simplify field assembly and termination.

PART #	DESCRIPTION
S110M(X)2-300FT	300-pair S110 Tower field termination kit *height: 406.4mm,* *width: 215.9mm,* *depth: 152.6mm*
S110M(X)2-400FT	400-pair S110 Tower field termination kit *height: 541.3mm,* *width: 215.9mm,* *depth: 152.6mm*
S110M(X)2-500FT	500-pair S110 Tower field termination kit *height: 676.1mm,* *width: 215.9mm,* *depth: 152.6mm*

Use (X) to specify connecting block size: A = 5-pair, B = 4-pair

S110 TOWER OPTIONAL ACCESSORIES

PART #	DESCRIPTION
S188-300	Large-scale vertical cable manager for use with 300-pair tower
S188-400	Large-scale vertical cable manager for use with 400-pair tower
S188-500	Large-scale vertical cable manager for use with 500-pair tower
S188-WD	Metal duct for additional horizontal cable management at base of Tower units

S188

S188-WD

M1-50 BLOCK

PATENTED

The M1-50 is a proven, economical connecting block solution for Premium 5e network cabling. These features make this block an ideal choice for supporting today's high bandwidth technologies such as Voice over IP (VoIP) and Gigabit ethernet. It is fully compatible with all industry standard accessories and includes a wide range of available mounting accessories that allows the M1-50 to be installed in almost any environment.

PART #	DESCRIPTION
M1-50	50-Pair M1-50 S66 block

STAND-OFF BRACKETS FOR S66™ BLOCKS

PATENTED

All of our brackets are designed to create clean, efficient, and space-saving installations when used with S66 connecting blocks. They are open-ended to enable installers to lay in cable before snapping a block into place. 25-pair connectors and/or modular components can be mounted on the sides or back of the brackets. The brackets are molded from flame retardant thermoplastic.

S89D *S89B*

PART #	DESCRIPTION
S89D	Can mount two 25-pair connectors on each side and four on the back.
S89B	Can mount one 25-pair connector on each side.

PREMIUM 5e CROSS-CONNECT WIRE

Siemon's cross-connect wire utilises a unique "webbing" manufacturing process which binds conductors of a twisted-pair together to maintain consistent conductor spacing and pair twists that will not loosen during cross-connect installation. This high performance product exceeds category 5e specifications and is ideal for use with our S66 and S110 wiring blocks.

PART #	DESCRIPTION
CJ5-W2-1000	Category 5e, 2-pair 24 AWG (0.51mm) webbed cross-connect wire, pair colours blue/orange, 305m spool
CJ5-W2-1000-07	Category 5e, 2-pair 24 AWG (0.51mm) webbed cross-connect wire, pair colours orange/green, 305m spool
CJ5-W1-1000-03	Category 5e, 1-pair 24 AWG (0.51mm) webbed cross-connect wire with red/white conductors, 305m spool
CJ5-W1-1000-06	Category 5e, 1-pair 24 AWG (0.51mm) webbed cross-connect wire with blue/white conductors, 305m spool

TECHNICAL TIP!
Use the Siemon cable preparation tool CPT-WEB to quickly separate CJ5 webbed conductors prior to termination.

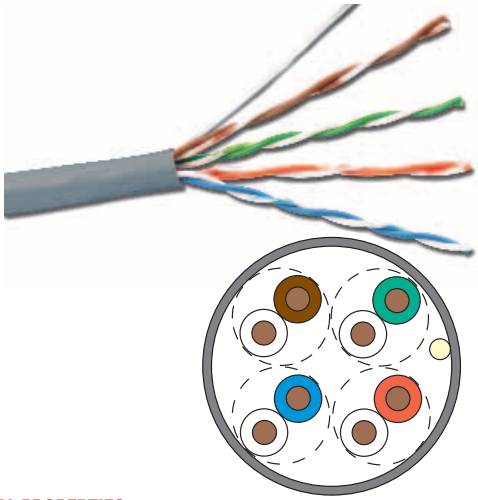
PREMIUM 5e UTP
4-PAIR SOLID ROUND CABLE — US

COMPLIANCE
- ISO/IEC 11801:2002 (Category 5e)
- TIA/EIA-568-B.2 (Category 5e)
- IEC 61156-5 (Category 5e)
- UL CMP and CSA FT6
- UL CMR and CSA FT4

CABLE CONSTRUCTION
- UTP
- 0.51mm (24 AWG) solid bare copper
- 4.9mm max jacket diameter
- Round jacket

PART #	DESCRIPTION
9C5P4-E2-(XX)-RXA	Plenum (CMP, CSA FT6) 305m Reelex
9C5R4-E2-(XX)-RXA	Riser (CMR, CSA FT4) 305m Reelex

Use (XX) to specify jacket colour:
02 = white, 03 = red, 04 = grey, 05 = yellow, 06 = blue, 07 = green



ELECTRICAL SPECIFICATIONS

DC Resistance	<9.38 Ω/100m
DC Resistance Unbalance	5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1 - 100 MHz: 100 ± 15% 100 - 350 MHz: 100 ± 22%
NVP	CMP—70% CMR— 68%
Delay Skew	≤ 35ns

PHYSICAL PROPERTIES

	CMP	CMR
Pulling Tension (max)	110N	110N
Bend Radius (min)	25mm	25mm
Installation Temperature	0 to 60°C	-36 to 60°C
Storage Temperature	-20 to 75°C	-34 to 75°C
Operating Temperature	-20 to 60°C	-34 to 60°C

TRANSMISSION PERFORMANCE

GUARANTEED WORST CASE SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0	2.1	1.9	68.3	79.3	66.3	72.3	66.2	77.4	64.2	70.4	67.8	84.8	65.8	78.8	20.0	27.0	550	545
4.0	4.1	3.7	59.3	70.3	57.3	63.3	55.2	66.6	53.2	59.6	55.7	72.8	53.7	66.8	23.3	32.0	532	527
10.0	6.5	5.8	53.3	64.3	51.3	57.3	46.9	58.5	44.9	51.5	47.8	64.8	45.8	58.8	25.5	32.0	525	520
16.0	8.2	7.4	50.3	61.2	48.3	54.2	42.1	53.8	40.1	46.8	43.7	60.7	41.7	54.7	25.5	32.0	523	518
20.0	9.2	8.3	48.8	59.8	46.8	52.8	39.6	51.5	37.6	44.5	41.7	58.8	39.7	52.8	25.5	32.0	522	517
31.25	11.5	10.5	45.9	56.9	43.9	49.9	34.4	46.4	32.4	39.4	37.9	54.9	35.9	48.9	24.4	30.0	520	515
62.5	16.4	15.0	41.4	52.4	39.4	45.4	24.9	37.4	22.9	30.4	31.8	48.9	29.8	42.9	22.7	30.0	519	514
100.0	21.0	19.3	38.3	49.3	36.3	42.3	17.3	30.0	15.3	23.0	27.8	44.8	25.8	38.8	21.5	30.0	518	513
160.0*	26.8	25.1	35.3	46.2	33.3	39.2	8.4	21.1	6.4	14.1	23.7	40.7	21.7	34.7	20.4	28.0	517	512
200.0*	30.2	28.1	33.8	44.8	31.8	37.8	3.6	16.7	1.6	9.7	21.7	38.8	19.7	32.8	19.8	27.0	517	512
250.0*	34.0	31.4	32.3	43.3	30.3	36.3	-1.6	11.9	-3.6	4.9	19.8	36.8	17.8	30.8	19.2	26.0	516	511
300.00*	37.4	34.5	31.2	42.1	29.2	35.1	-6.3	7.6	-8.3	0.6	18.2	35.3	16.2	29.3	18.8	25.0	516	511
350.0*	40.7	39.4	30.2	41.1	28.2	34.1	-10.5	1.7	-12.5	-5.3	16.9	33.9	14.9	27.9	18.4	24.0	516	511

**Values above 100 MHz are informational only.*

All performance based on 100 metres.

RELATED PRODUCTS Cable Preparation Tool page 111

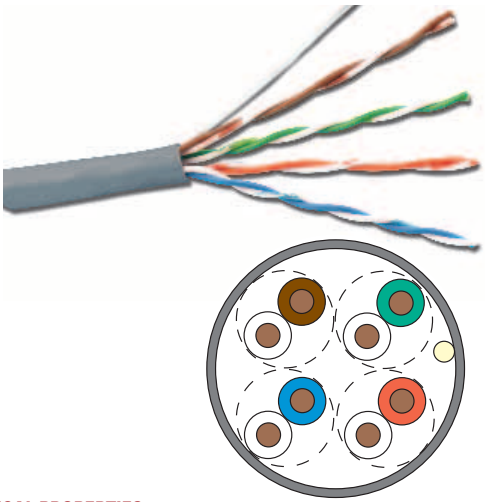
PREMIUM 5e UTP
4-PAIR SOLID ROUND CABLE — INTERNATIONAL

COMPLIANCE
- ISO/IEC 11801:2002 (Category 5e)
- TIA/EIA-568-B.2 (Category 5e)
- IEC 61156-5:2002 (Category 5e)
- LS0H: IEC 60332-1, IEC 60754 and IEC 61034
- UL CMR and CSA FT4
- UL CMX

CABLE CONSTRUCTION
- UTP
- 0.5mm (24 AWG) solid bare copper
- 5.5mm max jacket diameter (4-pair only)

PART #	DESCRIPTION
9C5R4-E2	PVC (CMR, CSA FT4, Riser), Blue Jacket, 305m Reelex
9C5M4-E2	PVC (CM), Grey Jacket, 305m Reelex
9C5X4-E2	PVC (CMX, IEC 60332-1), Grey Jacket, 305m Reelex
9C5L4-E2	LS0H (IEC 60332-1), Violet Jacket, 305m Reelex

Other cable lengths also available:
Add "-5CR for 500m Reel, "-1KR for 1000m Reel.



ELECTRICAL SPECIFICATIONS

DC Resistance	<9.38 Ω/100m
DC Resistance Unbalance	5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1 - 100 MHz: 100 ± 15% 100 - 350 MHz: 100 ± 22%
NVP	70%
Delay Skew	≤ 40ns

PHYSICAL PROPERTIES

	LS0H	CMR/CM/CMX
Pulling Tension (max)	110N	110N
Bend Radius (min)	25mm	25mm
Installation Temperature	0 to 60°C	-36 to 60°C
Storage Temperature	-20 to 75°C	-34 to 75°C
Operating Temperature	-20 to 60°C	-34 to 60°C

TRANSMISSION PERFORMANCE

TIA/EIA & ISO/IEC SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)*		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0	2.1	1.9	65.3	79.3	62.3	72.3	63.2	77.4	60.2	70.4	63.8	84.8	60.8	78.8	20.0	27.0	570	545
4.0	4.1	3.7	56.3	70.0	53.3	63.3	52.2	66.6	49.2	59.6	51.8	72.8	48.8	66.8	23.0	32.0	552	527
10.0	6.5	5.8	50.3	64.3	47.3	57.3	43.8	58.5	40.8	51.5	43.8	64.8	40.8	58.8	25.0	32.0	545	520
16.0	8.3	7.4	47.2	61.2	44.2	54.2	39.0	53.8	36.0	46.8	39.7	60.7	36.7	54.7	25.0	32.0	543	518
20.0	9.3	8.3	45.8	59.8	42.8	52.8	36.5	51.5	33.5	44.5	37.8	58.8	34.8	52.8	25.0	32.0	542	517
31.25	11.7	10.5	42.9	56.9	39.9	49.9	31.1	46.4	28.1	39.4	33.9	54.9	30.9	48.9	23.6	30.0	540	515
62.5	17.0	15.0	38.4	52.4	35.4	45.4	21.4	37.4	18.4	30.4	27.9	48.9	24.9	42.9	21.5	30.0	539	514
100.0	22.0	19.3	35.3	49.3	32.3	42.3	13.3	30.0	10.3	23.0	23.8	44.8	20.8	38.8	20.1	30.0	538	513
160.0*	28.6	25.1	32.2	46.2	29.2	39.2	3.7	21.1	0.7	14.1	19.7	40.7	16.7	34.7	18.7	28.0	537	512
200.0*	32.4	28.1	30.8	44.8	27.8	37.8	-1.6	16.7	-4.6	9.7	17.8	38.8	14.8	32.8	18.0	27.0	537	512
250.0*	36.9	31.4	29.3	43.3	26.3	36.3	-7.5	11.9	-10.5	4.9	15.8	36.8	12.8	30.8	17.3	26.0	536	511
300.0*	41.0	34.5	28.1	42.1	25.1	35.1	-12.8	7.6	-15.8	0.6	14.3	35.3	11.3	29.3	16.8	25.0	536	511
350.0*	44.9	39.4	27.1	41.1	24.1	34.1	-17.7	1.7	-20.7	-5.3	12.9	33.9	9.9	27.9	16.3	24.0	536	511

**Values above 100 MHz are informational only.*

All performance based on 100 metres.

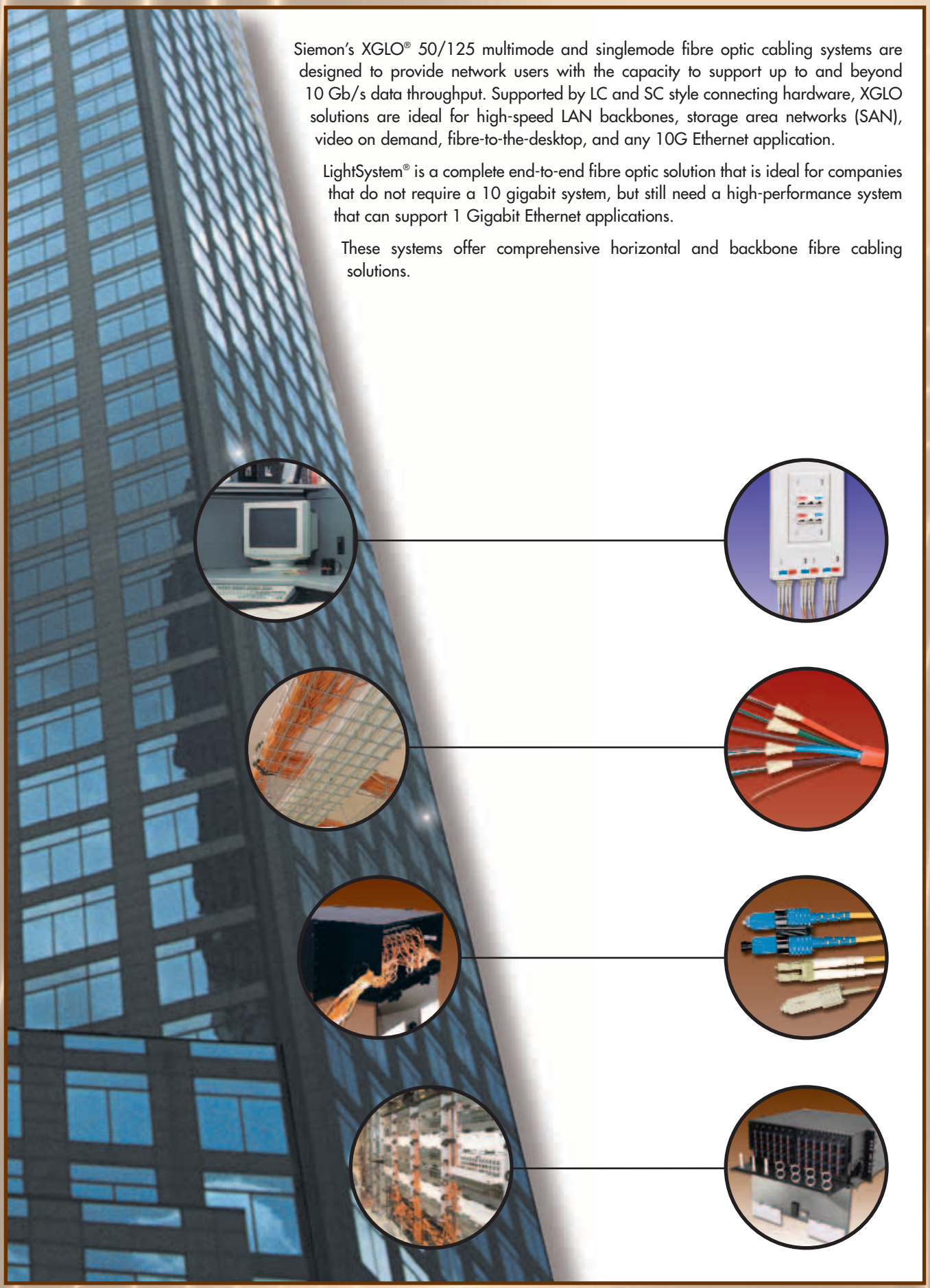
RELATED PRODUCTS Cable Preparation Tool page 111

FIBRE OPTIC SYSTEM PRODUCTS

Siemon's XGLO® 50/125 multimode and singlemode fibre optic cabling systems are designed to provide network users with the capacity to support up to and beyond 10 Gb/s data throughput. Supported by LC and SC style connecting hardware, XGLO solutions are ideal for high-speed LAN backbones, storage area networks (SAN), video on demand, fibre-to-the-desktop, and any 10G Ethernet application.

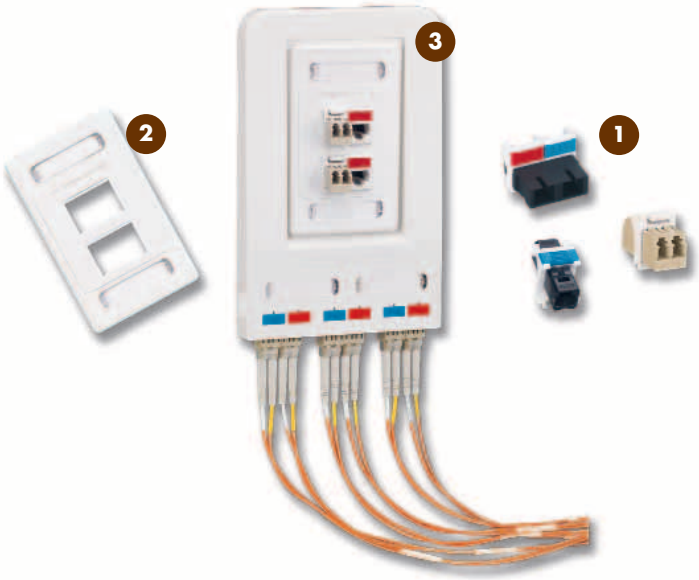
LightSystem® is a complete end-to-end fibre optic solution that is ideal for companies that do not require a 10 gigabit system, but still need a high-performance system that can support 1 Gigabit Ethernet applications.

These systems offer comprehensive horizontal and backbone fibre cabling solutions.



WORK AREA PRODUCTS

Bring the performance of Siemon's XGLO® and LightSystem® fibre optic systems right where they are needed with our comprehensive line of work area solutions.



1. **Versatility** — MAX adapters support SC, ST, LC and MT-RJ connector types
2. **Flexibility** — MAX adapters are compatible with all MAX faceplates and surface mount boxes
3. **Density Options** — FOB's support up to 12 fibres for optimal support of fibre to the work area. Additional fibre outlets can be mounted in the faceplate if needed

SNAP-IN
Modular MAX adapters install easily.

INNOVATIVE CABLE ACCESS
The FOB's unique design allows snap-on cover to be removed to access fibre connections without disturbing the faceplate connections.

UNIVERSAL COMPATIBILITY
Adapters are universal, supporting both multimode and singlemode.

MAX® FIBRE ADAPTER MODULES

PATENTED

Siemon MAX fibre adapter modules are compatible with all MAX series faceplates, adapters, and patch panels. All fibre adapters are "universal" to support either multimode or singlemode fibre connections.

XGLO & LIGHTSYSTEM

MX-F-SC-(XX) . . . . . .
Flat module
with 1 duplex SC adapter
(2 fibres)

MX-SC-(XX) . . . . . .
Angled module
with 1 duplex SC adapter
(2 fibres)

MX-F1-LC(X)-(XX)* . . . . .
Flat module
with 1 duplex LC adapter
(2 fibres)

Use (X) to specify LC adapter colour: blank = beige, U = blue

LIGHTSYSTEM

MX-F-S2-(XX) . . . . . .
Flat module
with 1 duplex ST adapter
(2 fibres)

MX-S2-(XX) . . . . . .
Angled module
with 1 duplex ST adapter
(2 fibres)

MX-MT-(XX) . . . . . .
Angled module
with 1 duplex MT-RJ
adapter (2 fibres)

MX-F-MT-(XX)* . . . . . .
Flat module
with 1 duplex MT-RJ
adapter (2 fibres)

Use (XX) to specify colour: 01 = black, 02 = white, 04 = grey, 20 = ivory, 25 = bright white, 80 = light ivory
Modules include dust caps, one colour-matching, one red, and one blue icon per port.
**Compatible with MX-SM® boxes.*

RELATED PRODUCTS

MAX Modular Faceplates pages 98, 100

FIBRE OUTLET BOX (FOB2)

PATENTED c UL us

Siemon's low-profile Fibre Outlet Box (FOB2) is the optimal solution for bringing fibre to the desk. The FOB2 offers a well-defined method for managing fibre cabling at the work area by providing a connection point for up to 12 fibre connectors utilising slide-in bezels. A single gang faceplate is mounted to the FOB2 base and accommodates up to six MAX® modules or two CT® couplers.

FOB2-(XX). . . . . .
Includes base, cover, designation labels, clear label covers, mounting hardware, cable ties, icons, and three blank bezels

FOB2-GRD-(XX). . . . . .
Includes base, extended cover, designation labels, clear label covers, mounting hardware, cable ties, icons, and three blank bezels

Use (XX) to specify colour: 01 = black, 02 = white, 80 = light ivory

FIBRE OUTLET BOX BEZELS

PATENTED

XGLO® & LIGHTSYSTEM®

FOB-BZL-LC(X)1-01 . . . . . .
1 Duplex LC adapter,
(2 fibres)

FOB-BZL-LC(X)-01 . . . . . .
2 Duplex LC adapters,
(4 fibres)

FOB-BZL-SC-01 . . . . . .
Duplex SC adapter,
(2 fibres)

FOB-BZL-BL-01 . . . . . .
Blank bezel

LIGHTSYSTEM

FOB-BZL-MT1-01. . . . . .
1 Duplex MT-RJ adapter,
(2 fibres)

FOB-BZL-MT-01. . . . . .
2 Duplex MT-RJ adapters,
(4 fibres)

FOB-BZL-SA-01 . . . . . .
Duplex ST adapters,
(2 fibres)

Use (X) to specify LC adapter colour: blank = beige, U = blue

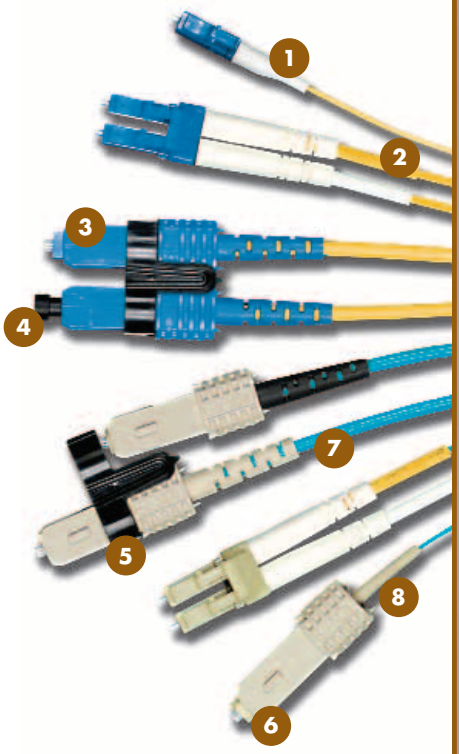
Note: All fibre adapters are "universal" to support both multimode and singlemode fibre connections.

XGLO®
JUMPERS AND PIGTAILS

10G *ip*™

Part of Siemon's 10G *ip*™ Cabling Solution, XGLO fibre optic cable assemblies are ideal for next generation backbone or fibre-to-the-desk applications. XGLO cable assemblies feature premium fibre that meets the IEEE 802.3 10 Gigabit Ethernet Standard as well as IEC-60793-2-10 and TIA-492AAAC specifications for laser bandwidth Differential Mode Delay (DMD) specifications. In addition, these assemblies offer a superior connector polish that exceeds all ANSI/TIA/EIA and ISO/IEC insertion loss and return loss requirements.

Supports 10 Gigabit Ethernet



1. **Robust Performance** — Laser bandwidth optimised cable reduces impurities in the core of fibre, ensuring robust 10 Gigabit Ethernet transmission
2. **Standard Lengths** — Jumpers available in 1, 2, 3, and 5 metre standard lengths
3. **Easy Identification** — Connectors colour coded per ANSI/TIA/EIA-568-B.3
4. **Dust Caps** — Dust caps included to protect polished ferrule from dirt and damage
5. **Polarity Connection** — SC duplexing clip allows for polarity correction
6. **Durable** — Exceeds TIA/EIA and ISO/IEC requirements for aging, exposure to humidity, temperature extremes, impact, vibration, coupling strength, and cable resistance to stress and strain
7. **Multimode and Singlemode** — 50/125µm multimode and singlemode assemblies available
8. **Pigtails** — Available in 1 metre lengths

XGLO JUMPERS AND PIGTAILS

XGLO 50/125µm MULTIMODE DUPLEX JUMPERS

FJ2-SCSC5L-(XX)AQ..... SC to SC aqua duplex jumper, OFNR
FJ2-LCLC5L-(XX)AQ ..... LC to LC aqua duplex jumper, OFNR
FJ2-LCSC5L-(XX)AQ..... LC to SC aqua duplex jumper, OFNR

Use (XX) to specify length:
01 = 1m, 02 = 2m, 03 = 3m, 05 = 5m

XGLO 50/125µm MULTIMODE SIMPLEX PIGTAILS

FP1B-SC5L-01AQ ..... SC simplex pigtail, 900 micron, aqua, buffered, 1m
FP1B-LC5L-01AQ..... LC simplex pigtail, 900 micron, aqua, buffered, 1m

XGLO SINGLEMODE DUPLEX JUMPERS

FJ2-SCUSCUL-(XX)..... SC to SC yellow duplex jumper, OFNR
FJ2-LCULCUL-(XX) ..... LC to LC yellow duplex jumper, OFNR
FJ2-LCUSCUL-(XX)..... LC to SC yellow duplex jumper, OFNR

Use (XX) to specify length:
01 = 1m, 02 = 2m, 03 = 3m, 05 = 5m

XGLO SINGLEMODE SIMPLEX PIGTAILS

FP1B-SCUL-01..... SC simplex pigtail, yellow, 900 micron, buffered, 1m
FP1B-LCUL-01 ..... LC simplex pigtail, yellow, 900 micron, buffered, 1m

PERFORMANCE SPECIFICATIONS

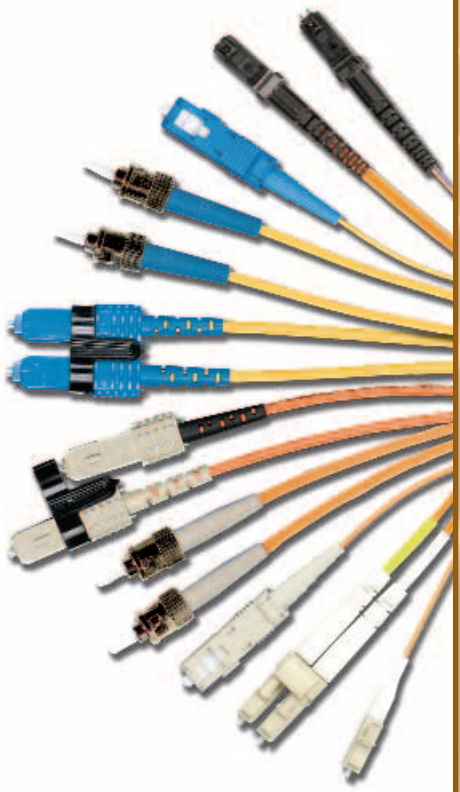
	50/125µm MULTIMODE			SINGLEMODE
	850nm	1300nm	850nm*	n/a
Min. Cable Bandwidth (MHz • km)	1500	500	2000	n/a
Max. Insertion Loss (dB)	0.50 (0.10 Typical)			0.40 (0.10 Typical)
Min. Return Loss (dB)	30 (35 Typical)			55 (60 Typical)

**Laser Bandwidth*

LIGHTSYSTEM®
JUMPERS AND PIGTAILS

Siemon offers a comprehensive line of Lightsystem fibre jumpers for connecting fibre links. Choose from multimode or singlemode jumpers and pigtails. Assemblies are available in standard lengths of 1, 2, 3, and 5 metres (custom lengths are also available). Each and every terminated connector is optically tested so that you can be assured that 100% of Siemon-built cable assemblies meet stringent performance specifications *(shown below)*.

Supports Gigabit Ethernet



MULTIMODE DUPLEX JUMPERS

FJ2-SCSC(X)MM-(XX) . . . . . SC to SC orange duplex jumper, OFNR
FJ2-SASA(X)MM-(XX) . . . . . ST to ST orange duplex jumper, OFNR
FJ2-SASC(X)MM-(XX) . . . . . ST to SC orange duplex jumper, OFNR
FJ2-LCLC(X)MM-(XX) . . . . . LC to LC orange duplex jumper, OFNR
FJ2-LCSC(X)MM-(XX) . . . . . LC to SC orange duplex jumper, OFNR
FJ2-LCSA(X)MM-(XX) . . . . . LC to ST orange duplex jumper, OFNR
FJ2R-MTMT(X)MM-(XX) . . . . . MT-RJ to MT-RJ orange duplex jumper, OFNR
FJ2R-MTSC(X)MM-(XX) . . . . . MT-RJ to SC orange duplex jumper, OFNR
FJ2R-MTSA(X)MM-(XX) . . . . . MT-RJ to ST orange duplex jumper, OFNR

Use (X) to specify multimode fibre type:
"–" = 62.5/125µm fibre, 5 = 50/125µm fibre

MULTIMODE SIMPLEX PIGTAILS

FP1B-SC(X)MM-01 . . . . . SC simplex pigtail, orange, 900 micron, buffered, 1m
FP1B-SA(X)MM-01 . . . . . ST simplex pigtail, orange, 900 micron, buffered, 1m
FP1B-LC(X)MM-01 . . . . . LC simplex pigtail, orange, 900 micron, buffered, 1m

Use (X) to specify multimode fibre type:
"–" = 62.5/125µm fibre, 5 = 50/125µm fibre

SINGLEMODE DUPLEX JUMPERS

FJ2-SCUSCU-(XX) . . . . . SC to SC yellow duplex jumper, OFNR
FJ2-SAUSAU-(XX) . . . . . ST to ST yellow duplex jumper, OFNR
FJ2-SAUSCU-(XX) . . . . . ST to SC yellow duplex jumper, OFNR
FJ2-LCULCU-(XX) . . . . . LC to LC yellow duplex jumper, OFNR
FJ2-LCUSCU-(XX) . . . . . LC to SC yellow duplex jumper, OFNR
FJ2-LCUSAU-(XX) . . . . . LC to ST yellow duplex jumper, OFNR

SINGLEMODE SIMPLEX PIGTAILS

FP1B-SCU-01 . . . . . SC simplex pigtail, yellow, 900 micron, buffered, 1m
FP1B-SAU-01 . . . . . ST simplex pigtail, yellow, 900 micron, buffered, 1m
FP1B-LCU-01 . . . . . LC simplex pigtail, yellow, 900 micron, buffered, 1m

Use (XX) to specify cable length: 01 = 1m, 02 = 2m, 03 = 3m 05 = 5m

PERFORMANCE SPECIFICATIONS

	50/125µm MULTIMODE		62.5/125µm MULTIMODE		SINGLEMODE
	850nm	1300nm	850nm	1300nm	n/a
Min. Cable Bandwidth (MHz km)	500	500	200	500	n/a
Max. Insertion Loss (dB)	0.65 (0.15 Typical)				0.40 (0.25 Typical)
Min. Return Loss (dB)	25 (30 Typical)				55 (57 Typical)

VALULIGHT™
JUMPERS AND PIGTAILS

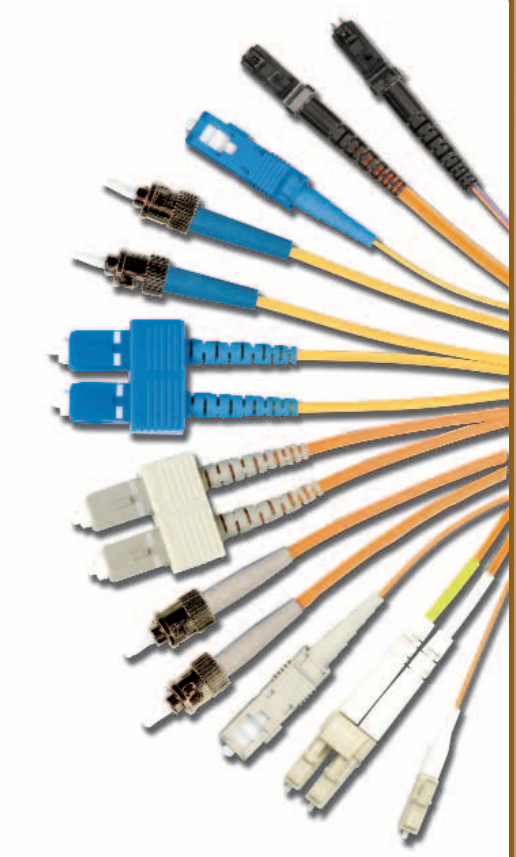
ValuLight jumpers and pigtails provide exceptional value at a very competitive cost. ValuLight fibre cable assemblies meet TIA/EIA-568-B.3 and ISO/IEC 11801 specifications for insertion loss and return loss. They are ideal for commercial cabling data applications up to and including 1 Gigabit. Cords are available in popular connector types in both multimode and singlemode fibre versions.

MULTIMODE DUPLEX JUMPERS

J2-SCSC(X)-(XX) ..... SC to SC orange duplex jumper, OFNR
J2-SASA(X)-(XX) ..... ST to ST orange duplex jumper, OFNR
J2-SASC(X)-(XX) ..... ST to SC orange duplex jumper, OFNR
J2-MTMT(X)-(XX) ..... MT-RJ to MT-RJ orange duplex jumper, OFNR
J2-LCLC(X)-(XX) ..... LC to LC orange duplex jumper, OFNR
J2-MTSC(X)-(XX) ..... MT-RJ to SC orange duplex jumper, OFNR
J2-MTSA(X)-(XX) ..... MT-RJ to ST orange duplex jumper, OFNR
J2-LCMT(X)-(XX) ..... LC to MT-RJ orange duplex jumper, OFNR
J2-LCSC(X)-(XX) ..... LC to SC orange duplex jumper, OFNR
J2-LCSA(X)-(XX) ..... LC to ST orange duplex jumper, OFNR

Use (X) to specify fibre type: 5 = 50/125µm, 6 = 62.5/125µm,

Use (XX) to specify length: 01 = 1m, 02 = 2m, 03 = 3m, 05 = 5m



MULTIMODE PIGTAILS

P1B-SC(X)-01 ..... SC simplex pigtail, orange, 900 micron, buffered, 1m
P1B-SA(X)-01 ..... ST simplex pigtail, orange, 900 micron, buffered, 1m
P2B-MT(X)-01 ..... MT-RJ duplex pigtail, orange, 900 micron, buffered, 1m
P1B-LC(X)-01 ..... LC simplex pigtail, orange, 900 micron, buffered, 1m

Use (X) to specify fibre type: 5 = 50/125µm, 6 = 62.5/125µm

SINGLEMODE DUPLEX JUMPERS

J2-SCSCP-(XX) ..... SC to SC yellow duplex jumper, OFNR
J2-SASAP-(XX) ..... ST to ST yellow duplex jumper, OFNR
J2-SASCP-(XX) ..... ST to SC yellow duplex jumper, OFNR
J2-LCLCP-(XX) ..... LC to LC yellow duplex jumper, OFNR
J2-LCSCP-(XX) ..... LC to SC yellow duplex jumper, OFNR
J2-LCSAP-(XX) ..... LC to ST yellow duplex jumper, OFNR

Use (XX) to specify length: 01 = 1m, 02 = 2m, 03 = 3m, 05 = 5m

SINGLEMODE PIGTAILS

P1B-SCP-01 ..... SC simplex pigtail, yellow, 900 micron, buffered, 1m
P1B-SAP-01 ..... ST simplex pigtail, yellow, 900 micron, buffered, 1m
P1B-LCP-01 ..... LC simplex pigtail, yellow, 900 micron, buffered, 1m

PERFORMANCE SPECIFICATIONS

	50/125µm MULTIMODE		62.5/125µm MULTIMODE		SINGLEMODE
	850nm	1300nm	850nm	1300nm	n/a
Min. Cable Bandwidth (MHz km)	500	500	200	500	n/a
Max. Insertion Loss (dB)	0.75 (0.15 Typical)				0.75 (0.25 Typical)
Min. Return Loss (dB)	20 (25 Typical)				50 (55 Typical)

SC AND ST CONNECTORS

SC DUPLEX CONNECTORS (XGLO® & LIGHTSYSTEM®)

SC connectors have a duplexing clip, which allows each connector to be removed individually. In the event fibre polarity is reversed during termination, there's no need to discard the connector. Simply remove connectors from the clip and switch to correct the mistake, saving valuable installation time and money. The duplexing clip also speeds troubleshooting. In the event there's a fault with a single connection, an individual connector can be removed from the clip and re-terminated without disturbing the adjacent connector.

MULTIMODE

FC2-SC-MM-J . . . . . Duplex, jacketed fibre, one black boot and one beige boot
FC2-SC-MM-B80 . . . . . Duplex, buffered fibre, two beige boots
FC2-SC-MM . . . . . Duplex, jacketed/buffered fibre, one black and one beige jacketed boot, two beige buffered boots

SINGLEMODE

FC2-SC-SM-J(XX) . . . . . Duplex, jacketed fibre
FC2-SC-SM-B(XX) . . . . . Duplex, buffered fibre

Use (XX) to specify boot colour: 02 = white, 06 = blue
Ⓑ *Add "-B" to the end of part number for bulk pack (50/box).*

SC SIMPLEX CONNECTORS (XGLO & LIGHTSYSTEM)

SC simplex connectors employ an outer housing that is colour-coded in accordance with TIA/EIA-568-B.3 and ISO/IEC 11801 Ed2.0 requirements (beige for multimode and blue for singlemode).

MULTIMODE

FC1-SC-MM-J80 . . . . . Simplex, jacketed fibre, beige boot
FC1-SC-MM-J01 . . . . . Simplex, jacketed fibre, black boot
FC1-SC-MM-B80 . . . . . Simplex, buffered fibre, beige boot
FC1-SC-MM-01 . . . . . Simplex, jacketed/buffered fibre, one black jacketed boot and one beige buffered boot
FC1-SC-MM-80 . . . . . Simplex, jacketed/buffered fibre, one beige jacketed boot and one beige buffered boot

SINGLEMODE

FC1-SC-SM-J(XX) . . . . . Simplex, jacketed fibre
FC1-SC-SM-B(XX) . . . . . Simplex, buffered fibre
FC1-SC-SM-(XX) . . . . . Simplex, jacketed/buffered fibres, one jacketed boot, one buffered boot

Use (XX) to specify boot colour: 02 = white, 06 = blue
Ⓑ *Add "-B" to the end of part number for bulk pack (100/box).*

ST SIMPLEX CONNECTORS (LIGHTSYSTEM)

The ST connector employs a rugged metal bayonet coupling ring with radial ramps which facilitate engagement to the studs of the mating adapter. Two ST connectors are available for jacketed fibre, one with a beige boot and one with a black boot. The two colours enable easy identification of the fibres when terminating individual connectors to form a duplex jumper.

MULTIMODE

FC1-SA-MM-J80 . . . . . Jacketed fibre, beige boot
FC1-SA-MM-J01 . . . . . Jacketed fibre, black boot
FC1-SA-MM-B80 . . . . . Buffered fibre, beige boot
FC1-SA-MM-01 . . . . . Jacketed/Buffered fibre, black jacketed boot and beige buffered boot
FC1-SA-MM-80 . . . . . Jacketed/Buffered fibre, beige jacketed boot and beige buffered boot

SINGLEMODE

FC1-SA-SM-J(XX) . . . . . Jacketed fibre
FC1-SA-SM-B(XX) . . . . . Buffered fibre
FC1-SA-SM-(XX) . . . . . Jacketed/Buffered fibre, one jacketed boot, one buffered boot

Use (XX) to specify boot colour: 02 = white, 06 = blue
Ⓑ *Add "-B" to the end of part number for bulk pack (100/box).*

RELATED PRODUCTS Fibre Termination Kit pages 112

LC FIELD-INSTALLABLE CONNECTORS (XGLO® & LIGHTSYSTEM®)

Siemon LC products offer all the benefits of SC and ST connections in a Small Form Factor (SFF), high-density design. LC adapter products are compatible with our popular MAX,® CT,® FOB, and MX-SM® work area and telecommunications room products, providing a wide variety of installation options. LC connectors take just two minutes to terminate, using the Siemon *LightSpeed*® Termination Kit.

MULTIMODE

PART #	DESCRIPTION
FC1-LC-MM-B80	LC Simplex connector, multimode, buffered fibre, beige boot
FC2-LC-MM-J80	LC Duplex connector, multimode, jacketed fibre, beige boots

SINGLEMODE

PART #	DESCRIPTION
FC1-LC-SM-B02	LC Simplex connector, singlemode, buffered fibre, white boot
FC1-LC-SM-J02	LC Simplex connector, singlemode, jacketed fibre, white boot

Note: Siemon LC jacketed fibre connectors require the use of 1.6mm jacketed fibre cables.
Ⓑ Add "-B" to the end of part number for bulk pack (simplex: 100/box, duplex: 50/box).

RELATED PRODUCTS Fibre Termination Kit page 112

MT-RJ FIELD-INSTALLABLE CONNECTORS (LIGHTSYSTEM)

Siemon MT-RJ connectors pack all the benefits of duplex fibre optic performance into a compact "RJ" style design. Terminations are quick and easy, utilising a proven no epoxy/no polish method, which takes less than two minutes total — less than one minute per fibre! Siemon MT-RJ connectors feature two fibres factory-terminated to the ferrule with protruding stubs engaged within a pre-installed splice mechanism. Just prep the cable and insert the fibres into the connecter to complete termination. No epoxy or polish is necessary.

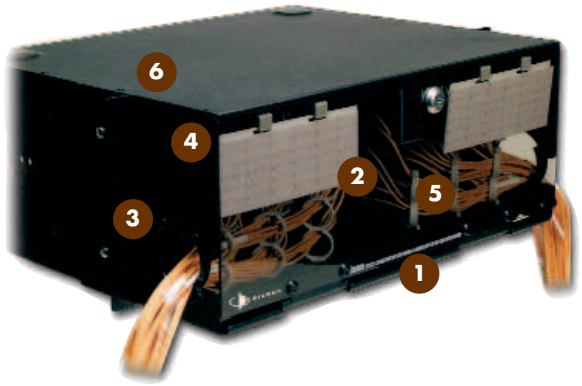
PART #	DESCRIPTION
FC2-MT6MM	MT-RJ duplex connector with pins (male), multimode 62.5/125µm, beige
FC2-MT5MM	MT-RJ duplex connector with pins (male), multimode 50/125µm, black

Note: Siemon MT-RJ connectors include black boots and are compatible with 3.0mm round duplex jacketed or buffered fibre cables.

RELATED PRODUCTS MT-RJ Termination Kit page 113

RACK MOUNT INTERCONNECT CENTRE (RIC3)

The RIC3 provides the best overall value for exceptional fibre management. The RIC3 enclosure offers superior fibre density (up to 288 fibres in just 4 U) without sacrificing fibre protection and accessibility. Features include a fully removable tray, improved labelling, standard front and rear door locks, and single-finger door latches. With superior cable management, port identification, fibre accessibility and security, the RIC3 is the best way to protect mission critical fibre connections.



1. **Quick-Release Hinges** — Spring loaded quick-release hinges enable easy removal of front and rear doors for complete access to fibre connections
2. **Enhanced Labelling** — Label virtually any port configuration with our hinged labels. The labels hang on the front door for improved visibility. When the door is opened, labels flip down allowing ready viewing of the label and corresponding ports
3. **Rotating Grommets** — Patented rotating grommets facilitate loading and retention of jumpers and fibre while minimising microbending stress when using the sliding tray
4. **Complete Access** — Management tray has a positive stop in both front and rear working positions providing complete access for moving, adding, changing, or cleaning of fibre connections
5. **Maximum Capacity** — The RIC3 enables a maximum amount of fibres to be patched or patched and spliced in a 2, 3, and 4 U enclosure without compromising the accessibility. This allows more efficient utilisation of rack space
6. **Superior Design** — Top and bottom access holes located at the rear of the enclosure allow fibres to be routed between tandem enclosures without having to run fibres outside of the enclosure

REMOVABLE TRAY
The RIC3 cable management tray is removable from the front or rear of the enclosure, allowing the tray to be moved to a work table for more convenient loading.

IMPROVED DOOR LATCHING AND LOCKING
The RIC3 features a single-finger latch on both front and rear doors. Included door locks offer security.

QUICK-PACK™ ADAPTER PLATES
Siemon Quick-Pack adapter plates can be inserted or removed with a single-finger for quick and easy access to fibre connections.

RACK MOUNT INTERCONNECT CENTRE (RIC3) (XGLO® & LightSystem®)

PATENTED c UL us

Siemon RIC3 enclosures are designed for enhanced fibre management and ease of use. They are compatible with an array of Siemon fibre Quick-Pack adapter plates for your choice of fibre adapters and port density.

PART #	DESCRIPTION
RIC3-24-01	24- to 96-port Rack Mount Interconnect Centre, accepts (4) Quick-Pack adapter plates, 2 U, black

height: 86.6m,
width: 432mm,
depth: 380mm

PART #	DESCRIPTION
RIC3-48-01	48- to 192-port Rack Mount Interconnect Centre, accepts (8) Quick-Pack adapter plates, 3 U, black

height: 133mm,
width: 432mm,
depth: 380mm

PART #	DESCRIPTION
RIC3-36-01	36- to 144-port Rack Mount Interconnect Centre, accepts (6) Quick-Pack adapter plates, 2 U, black

height: 86.6mm,
*width: 432mm, *
*depth: 380mm *

PART #	DESCRIPTION
RIC3-72-01	72- to 288-port Rack Mount Interconnect Centre, accepts (12) Quick-Pack adapter plates, 4 U, black

height: 178mm,
width: 432mm,
depth: 380mm

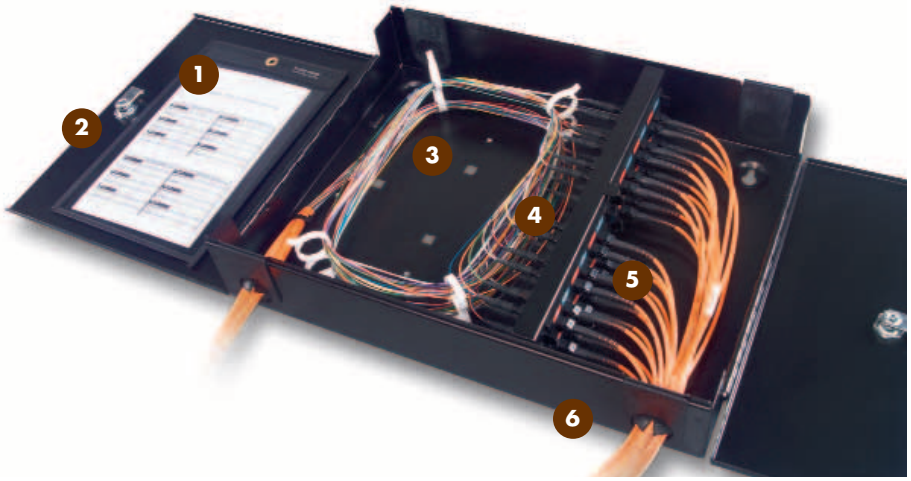
Note: 1 U = 44.5mm
All RIC products include laser-printable labels, cable ties, rack-mounting hardware, and pre-installed fibre management clips.*
**Visit our web site or contact our Technical Support Department for labelling software.*

RELATED PRODUCTS

Quick-Pack Adapter Plates page 73, Splice Trays page 74, Fibre Jumpers and Pigtails pages 65-67

WALL MOUNT INTERCONNECT CENTRE (SWIC3)

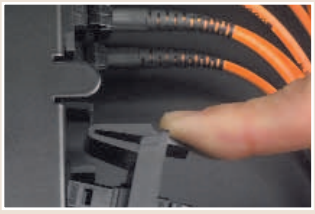
The Wall Mount Interconnect Centre (SWIC3) is a cost-effective fibre enclosure designed to manage and protect up to 96 fibre connections. The low-profile, compact design makes it ideal for telecommunications closets or other installation areas where wall space is a premium. The adapter mounting method is standardised on the same snap-in Quick-Pack™ adapter plates used in our family of Rack Mount Interconnect Centres (RIC3).



1. **Convenient Labelling** — Convenient labelling system includes removable clear label holders for storing and protecting fibre documentation
2. **Door Options** — Doors on enclosure and jumper guard can be ordered with independent key lock or latching options
3. **Optional Splice Tray Bracket** — Optional bracket available for mounting multiple splice trays *(not shown)*
4. **Available with Quick-Pack Adapter Plates** — Quick-Pack adapter plates are available with SC, ST, FC, MT-RJ, or LC adapters
5. **Fibre Jumper Guard** — Integrated hinged fibre guard provides jumper protection and management
6. **Accessories** — Dust-proofing grommets included

EASY ACCESS
Doors on enclosures and jumper guard swing open a full 180° to provide complete front and side access.

DUAL-LEVEL FIBRE MANAGERS
Incorporates two independent levels of storage to enable the fibre to be routed at levels that correspond to the adapters.



SNAP-IN ADAPTER PLATES
Utilises same Quick-Pack adapter plates as RIC3 enclosures with integrated latches for snap-in installation and single-finger removal.

WALL MOUNT INTERCONNECT CENTRE (SWIC3) (XGLO® & LightSystem®)

PATENTED

PART #	DESCRIPTION
SWIC3G-(X)(X)-01	24- to 96-port Wall Mount Interconnect Centre with integrated jumper guard, accepts (4) Quick-Pack adapter plates,black. Includes dual-level fibre managers, port designation labels and removable pocket, dust-proofing grommets, strain relief hardware, cable ties, and mounting hardware. *height: 311mm, width: 406mm, depth: 82.6mm*

Use 1st (X) to specify type of lock on the enclosure (left) door: A = key lock, C = thumb-turn latch
Use 2nd (X) to specify type of lock on the guard (right) door: A = key lock, C = thumb-turn latch

SWIC3-(X)-01	24- to 96-port Wall Mount Interconnect Centre, accepts (4) Quick-Pack adapter plates, black. Includes dual-level fibre managers, port designation labels and removable pocket, dust-proofing grommets, strain relief hardware, cable ties, and mounting hardware. *height: 311mm, width: 311mm, depth: 82.6mm*

Use (X) to specify type of lock on the enclosure: A = key lock, C = thumb-turn latch

MINI WALL MOUNT INTERCONNECT CENTRE (XGLO® & LightSystem®)

PATENTED

The SWIC3 enables the economical interconnection of fibre in locations where wall space is limited while still providing many of the popular, installer-friendly features of the SWIC3. By accepting two flat Quick-Pack adapter plates, the SWIC3 can accommodate from 12 – 48 fibres. Also included are dust-proofing grommets to provide protection from contaminants and bend radius guides to ensure proper storage of fibre slack.

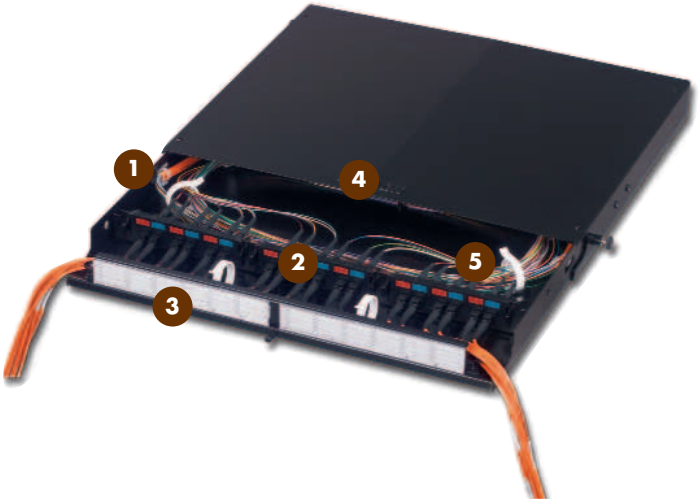
PART #	DESCRIPTION
SWIC3-M-01	12- to 48-port Mini Wall Mount Interconnect Centre, accepts (2) Quick-Pack adapter plates,black *height: 218.4mm, width: 185.4mm, depth: 82.6mm*

RELATED PRODUCTS

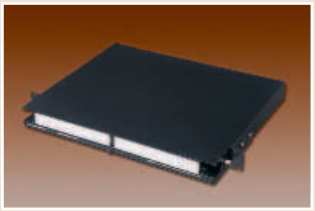
Quick-Pack™ Adapter Plates page 73, Splice Trays page 74, Fibre Jumpers and Pigtails pages 65-67

FIBRE CONNECT PANEL (FCP3)

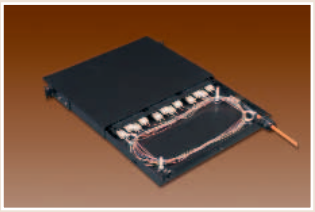
Siemon Fibre Connect Panels (FCP3-DWR and FCP3-RACK) economically connect, protect, and manage up to 72 fibres within one Rack Mount Space. It accepts Siemon's Quick-Pack™ adapter plates with patented single-finger access. The FCP3-DWR makes access to the connections easy via a tray that slides out the front or the rear.



1. **Lanced Tabs** — Provide convenient cable anchor points for incoming jacketed fibre cable
2. **Front Fibre Clips** — Manage up to 36 duplex fibre jumpers (72 fibres total)
3. **Label Holder** — Protects fibre jumpers and is readily removable via release of factory-installed snap-latches
4. **Up to 3 Optional Splice Trays** — Can be mounted to manage and protect either mechanical or fusion splices
5. **Rear Fibre Clips** — Manage cable slack while maintaining minimum bend radius requirements



HIGH DENSITY
FCP3 enclosures accommodate up to 72 fibres in only 1 U on a 19 inch rack.

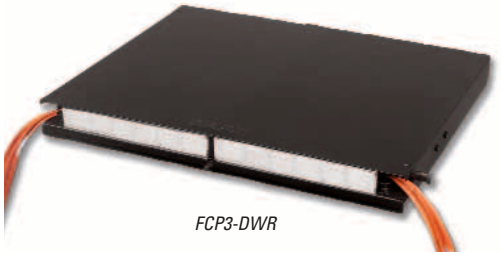


SLIDING TRAY
The FCP3-DWR (drawer version) features a tray that slides out from the front or rear, providing easy access to fibre connections even on fully loaded racks and allowing for removal of the entire tray to be placed on a worktable for more convenient termination.

FIBRE CONNECT PANEL (FCP3) (XGLO® & LightSystem®)

PATENTED

PART #	DESCRIPTION
FCP3-DWR	6- to 72-port Fibre Connect Panel with sliding tray, accepts (3) Quick-Pack adapter plates, black. Includes mounting brackets, housing/tray, fibre managers, grommets, label holders, and labels *height: 43.2mm, width: 482.6mm, depth: 355.6mm*
FCP3-RACK	6- to 72-port Fibre Connect Panel with fixed tray, accepts (3) Quick-Pack adapter plates, black. Includes mounting brackets, housing/cover, fibre managers and grommet *height: 43.2mm, width: 482.6mm, depth: 241.3mm*



FCP3-DWR

FCP3-RACK

RELATED PRODUCTS

Quick-Pack™ Adapter Plates page 73, Fibre Jumpers and Pigtails pages 65-67

FLAT QUICK-PACK™ ADAPTER PLATES

PATENTED

Siemon Quick-Pack adapter plates feature a patent pending integrated latch, which provides single-finger access to fibre even in fully populated enclosures. Choose from our wide variety of singlemode and multimode plate options.

XGLO® & LIGHTSYSTEM®

RIC-F-SC6-01 . . . . . .
3 duplex SC adapters
(6 fibres)

RIC-F-SC8-01 . . . . . .
4 duplex SC adapters
(8 fibres)

RIC-F-SC12-01 . . . . . .
6 duplex SC adapters
(12 fibres)

RIC-F-LC12-01 . . . . . .
6 duplex LC adapters
(12 fibres), beige adapters

RIC-F-LCU12-01 . . . . . .
6 duplex LC adapters
(12 fibres), blue adapters
(not shown)

RIC-F-LC16-01 . . . . . .
4 quad LC adapters
(16 fibres), beige adapters

RIC-F-LCU16-01 . . . . . .
4 quad LC adapters
(16 fibres), blue adapters
(not shown)

RIC-F-LC24-01 . . . . . .
6 quad LC adapters
(24 fibres), beige adapters

RIC-F-LCU24-01 . . . . . .
6 quad LC adapters
(24 fibres), blue adapters
(not shown)

LIGHTSYSTEM

RIC-F-SA6-01 . . . . . .
3 duplex ST adapters
(6 fibres)

RIC-F-SA8-01 . . . . . .
4 duplex ST adapters
(8 fibres)

RIC-F-SA12-01 . . . . . .
6 duplex ST adapters
(12 fibres)
Only recommended for push-pull design connectors due to access constraints

RIC-F-MT12-01. . . . . .
6 duplex MT-RJ adapters
(12 fibres)

RIC-F-MT16-01. . . . . .
8 duplex MT-RJ adapters
(16 fibres)

RIC-F-MT24-01. . . . . .
12 duplex MT-RJ adapters
(24 fibres)

RIC-F-AC6-01 . . . . . .
3 duplex ST-SC adapters
(6 fibres, front side = SC)

RIC-F-AC8-01 . . . . . .
4 duplex ST-SC adapters
(8 fibres, front side = SC)
(not shown)

RIC-F-BLNK-01 . . . . . .
Blank adapter plate

Each adapter plate with icon pockets includes red, blue, black, and clear icons with paper labels.
All SC and ST adapters are "universal" to support multimode and singlemode.

SPLICE TRAYS (XGLO® & LIGHTSYSTEM®)

These aluminium trays come with a clear, snap-on ploycarbonate cover and can be stacked for high-density applications. The standard tray holds up to 24 splices. For tight areas, a mini-tray is available, which accomodates up to 12 splices. The splice trays are compatible with RIC, SWIC and FCP and fibre enclosures.

PART #	DESCRIPTION
TRAY-3	Standard splice tray for up to 24 fusion splices using sleeve protection
TRAY-M-3	Mini splice tray for up to 12 fusion splices using sleeve protection

TRAY-3

STANDARD TRAY DIMENSIONS

height: 103mm,
width: 298mm,
depth: 8.13mm

TRAY-M-3

MINI TRAY DIMENSIONS

height: 103mm,
width: 179mm,
depth: 8.13mm

Fusion with sleeve splice holders can accommodate sleeve diameters from 1.5mm to 3mm.

HEAT SHRINK SLEEVES

Heat shrink sleeves provide a safe and efficient method for protecting fusion splices on either 250 or 900 micron coated fibres. Heat shrink sleeves are threaded on to fibres prior to fusion splicing and then positioned directly over splice and heated via an oven or heat gun*.

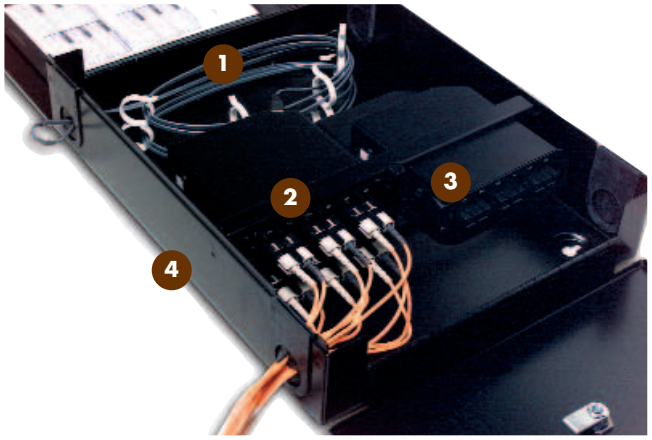
PART #	DESCRIPTION
HT-40	40mm heat shrink sleeve
HT-60	60mm heat shrink sleeve

**Heating times may vary depending on heat source.*

TECHNICAL TIP!
For cleave lengths greater than 12mm,
HT-60 sleeves are recommended.

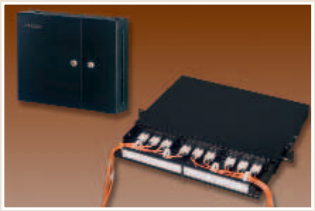
PLUG AND PLAY

Siemon offers a solution for streamlining fibre installation and termination — the fibre Plug and Play system. This system reduces the labour and logistics of standard fibre installations by providing a pre-terminated, pre-tested multimode fibre optic connection system.



1. **Quick Connections** — Are completed by plugging 6- or 12-fibre MPO connectors in Plug and Play modules which can be snapped into wall or rack mount enclosures
2. **Factory Termination** — Significantly reduces labour costs during installation and ensures high performance and reliability of the installed system
3. **Multiple Interfaces** — In both XGLO® and LightSystem® with LC, SC and ST connections
4. **Turn-Key Solution** — No connector, termination kits or consumables required

PRETERMINATED FIBRE PLUG AND PLAY MODULES
Modules feature integrated latches for snap-in installation and single-finger removal.



WALL OR RACK MOUNT SOLUTIONS
Siemon's Plug and Play modules can be used with any Siemon fibre enclosure (RIC3, SWIC3, FCP3).

PLUG AND PLAY MODULES

The Plug and Play modules snap into any Siemon enclosure (RIC3, SWIC3, FCP3) to provide individual port access when transitioning from MPO connectors at the rear. The modules are factory-terminated and tested for 100% guaranteed performance with SC and ST interfaces.

PART #	DESCRIPTION
PP6-SA(X)MM-01	6-port, multimode ST Plug and Play module, black (LightSystem)
PP6-SC(X)MM-01	6-port, multimode SC Plug and Play module, black (XGLO & LightSystem)
PP12-SC(X)MM-01	12-port, multimode SC Plug and Play module, black (XGLO & LightSystem)
PP12-LC(X)MM-01	12-port, multimode LC Plug and Play module, black (XGLO & LightSystem)
PP24-LC(X)MM-01	24-port*, multimode LC Plug and Play module, black (XGLO & LightSystem)

Use (X) to specify fibre type: 5 = 50/125µm, 6 = 62.5/125µm (LightSystem), 5L = 50/125 (XGLO)

Note: XGLO fibre is only available in LC and SC versions.

**Utilises (2) MPO connectors per module*

6-Port SC Module

PLUG AND PLAY REEL AND EXTENDER SYSTEM

The cable for the Plug and Play system is provided on cable reels with 6- or 12-fibre MPO connectors on each end. The cable is available in 50/125µm or 62.5/125µm riser and plenum grade fibre cable and can be ordered in any length. A cable pulling eye on one end protects the fibre during installation and facilitates fast installation. Cable extenders are also available to add onto existing Plug and Play reels and include an adapter to join the extender to the cable reel.

PART #	DESCRIPTION
FR6-(X)MM(X)-(XXX)	MPO-to-MPO Plug and Play reel, multimode 6-fibre, with pulling eye
FR12-(X)MM(X)-(XXX)	MPO-to-MPO Plug and Play reel, multimode 12-fibre, with pulling eye
FE6-(X)MM(X)-(XXX)	MPO-to-MPO Plug and Play fibre extender, multimode 6-fibre, with adapter and pulling eye
FE12-(X)MM(X)-(XXX)	MPO-to-MPO Plug and Play fibre extender, multimode 12-fibre, with adapter and pulling eye

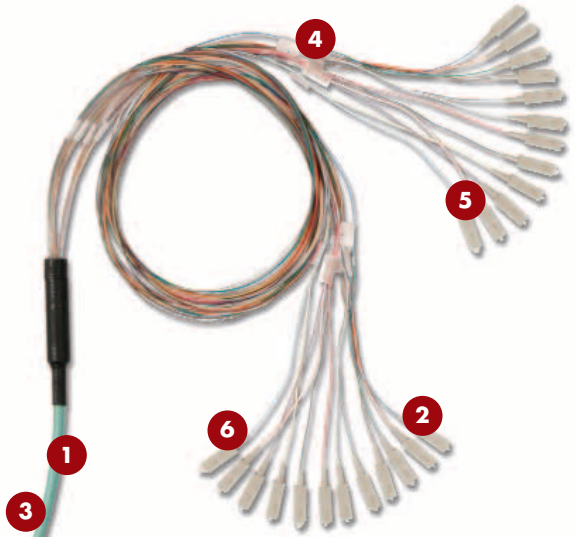
Use (X) to specify fibre type: 5 = 50/125µm (LightSystem), 6 = 62.5/125µm (LightSystem), *5L = 50/125* (XGLO)

Use 2nd (X) to specify fibre jacket: R = riser, P = plenum

Use (XXX) to specify length in metres (last X to be "0" or "5" only)

FIBRE TRUNKING CABLE ASSEMBLIES

Siemon's fibre trunking cable assemblies provide an efficient and cost effective alternative to individual field-terminated components. Combining factory terminated connectors with Siemon cable in a high-performance cable assembly, Siemon fibre trunking cable assemblies were designed with Local Area Networks (LAN), Data Centres and Storage Area Networks (SAN) applications in mind. In addition to providing simple and aesthetically pleasing cable management, the assemblies allow significantly reduced field installation times. Standard configurations also help maintain consistent cable layout and facilitate efficient moves, adds and changes.



1. **Siemon Cable** — Utilises high quality Siemon cable in both armored and non-armored choice of construction
2. **Proper Orientation** — Each leg is designated for proper connector orientation
3. **Identification** — Each cable assembly is coded with a unique identification number for administrative purposes
4. **Custom Assembly** — Fibre assemblies can be created based on a flexible part number scheme for performance options to best suit each installation
5. **Factory Terminated and Tested** — Every fibre cable assembly is factory terminated and tested for premium performance
6. **Superior Design** — Each cable assembly utilises an epoxy breakout with spiral wrap to protect the fibres when entering an enclosure

PULLING EYE
An optional encapsulated protection sleeve with cable pulling eye protects the fibre during installation.

ENCLOSURE COMPATIBILITY
Siemon fibre trunk assemblies are compatible with all Siemon fibre enclosures.

PROTECTIVE PACKAGING
Each assembly is individually packaged to protect factory terminations.

FIBRE TRUNKING CABLE ASSEMBLIES

TF - (X) (X) (X) (X) (X X) (X X) (X X X) (X)

Fibre Count:
A = 6*
B = 12
C = 24
E = 36
F = 48*
G = 72*
H = 96*
J = 144*

*Non-armored only

Pulling Eye:
A = Side A
B = Side B
C = None

Fibre Type:
A = Singlemode (XGLO)—Yellow
B = 62.5/125 (LightSystem®)—Orange
C = 50/125 (LightSystem)—Orange
L = 50/125 (XGLO)—Aqua

Cable Type:
P = Plenum—Indoor Distribution (OFNP)
R = Riser—Indoor Distribution (OFNR)
L = LSOH—Indoor Distribution (IEC 60332.1)
A = Plenum—Interlocking Armored (OFCP)

Connector (Side A):
MT = MTRJ (LS)
LC = LC (LS & XGLO)
SC = SC (LS & XGLO)
SA = ST (LS)

Connector (Side B):
MT = MTRJ (LightSystem)
LC = LC (LS & XGLO®)
SC = SC (LS & XGLO)
SA = ST (LS)
(blank) = Pigtail

Cable Length:
050 = 50 (F or M)
070 = 70 (F or M)
etc.

Unit of Measure:
F = Feet
M = Metres

Note: These products are made to order. Call for lead time and availability.

FIBRE TRUNKING CABLE ASSEMBLIES

CABLE — Optical and Physical Specifications

Cable Type	Multimode			Singlemode
	LightSystem® 62.5/125µm (850/1300 nm)	LightSystem 50/125µm (850/1300 nm)	XGLO® 50/125µm (850/1300 nm)	XGLO (1310/1550 nm)
Fibre Cable Attenuation, Max (dB/km)	3.5/1.0	3.5/1.0	3.5/1.0	0.5/0.5*
OFL Bandwidth, min (MHz•km)	200/500	500/500	1500/500	N/A
Effective Modal Bandwidth, min (MHz•km)	N/A	N/A	2000/NS	N/A
Cable Outer Jacket Colour	Orange	Orange	Aqua	Yellow
Break-Out Colours: Single Fibre Strands**	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua			
Sub-Unit Colours and/or Markings**	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua			

**XGLO singlemode fibre meets Low Water Peak specifications per ITU-T G.652.C*
**Per TIA-598-C

CONNECTORS — Optical Specifications

Fibre Type	Performance Class	Max Insertion Loss (dB)	Min Return Loss (dB)
62.5/125µm Multimode	LightSystem	0.65 (0.15 Typical)	25 (30 Typical)
50/125µm Multimode	LightSystem	0.65 (0.15 Typical)	25 (30 Typical)
50/125µm Multimode	XGLO	0.50 (0.10 Typical)	30 (35 Typical)
Singlemode	XGLO	0.40 (0.25 Typical)	55 (57 Typical)

CONNECTORS — Physical Specifications

Connector Type	IEC Intermateabilty Compliance	TIA Intermateabilty Compliance	Housing Colour		Boot Colour	
			SM	MM	SM	MM
MT-RJ	IEC 61754-1	TIA/EIA-604-12	Black	Black	Black	Black
SC	IEC 60874-14	TIA/EIA-604-3	Blue	Beige	Blue	Beige
ST	IEC 60874-10	TIA/EIA-604-2	N/A	N/A	Blue	Beige
LC	IEC 61754-20	TIA/EIA-604-10	Blue	Beige	White	White

CABLE DIAMETERS BY FIBRE COUNT

Cable Type	Fibre Strand Count	Sleeve Diameter mm	Cable Diameter mm	Minimum Bend Radius mm	Required Duct Diameter mm	Maximum Pull Force kg
Non-Armored	6	44.5	5.8	381	69.9	45.4
	12	44.5	5.8	381	69.9	45.4
	24	44.5	13.7	381	69.9	45.4
	36	63.5	16.5	914	88.9	45.4
	48	63.5	16.0	914	88.9	45.4
	72	63.5	19.5	914	88.9	45.4
	96	88.9	23.9	914	108.0	45.4
	144	88.9	27.9	914	108.0	45.4
Armored	12	44.5	13.0	914	69.9	45.4
	24	44.5	16.0	914	88.9	45.4
	36	63.5	22.4	914	88.9	45.4

XGLO® 10 GIGABIT ETHERNET FIBRE OPTIC DISTRIBUTION CABLE — US

10G ip™

SINGLEMODE, YELLOW JACKET

PART #	FIBRE COUNT	CONSTRUCTION
9BB8(X)002B-E205A	2	1 tube of 2 fibres
9BB8(X)004C-E205A	4	1 tube of 4 fibres
9BB8(X)006D-E205A	6	1 tube of 6 fibres
9BB8(X)008E-E205A	8	1 tube of 8 fibres
9BB8(X)012G-E205A	12	1 tube of 12 fibres
9BB8(X)016C-E205A	16	4 tubes of 4 fibres
9BB8(X)024D-E205A	24	4 tubes of 6 fibres
9BB8(X)036D-E205A	36	6 tubes of 6 fibres
9BB8(X)048G-E205A	48	4 tubes of 12 fibres
9BB8(X)072G-E205A	72	6 tubes of 12 fibres
9BB8(X)096G-E205A	96	8 tubes of 12 fibres
9BB8(X)144G-E205A	144	12 tubes of 12 fibres

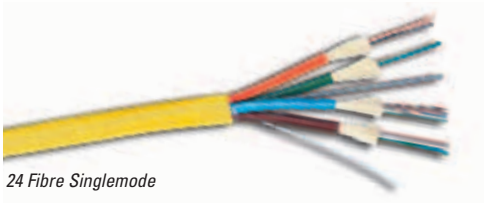
50/125µm MULTIMODE, AQUA JACKET

PART #	FIBRE COUNT	CONSTRUCTION
9BB5(X)002B-T312A	2	1 tube of 2 fibres
9BB5(X)004C-T312A	4	1 tube of 4 fibres
9BB5(X)006D-T312A	6	1 tube of 6 fibres
9BB5(X)008E-T312A	8	1 tube of 8 fibres
9BB5(X)012G-T312A	12	1 tube of 12 fibres
9BB5(X)016C-T312A	16	4 tubes of 4 fibres
9BB5(X)024D-T312A	24	4 tubes of 6 fibres
9BB5(X)036D-T312A	36	6 tubes of 6 fibres
9BB5(X)048G-T312A	48	4 tubes of 12 fibres
9BB5(X)072G-T312A	72	6 tubes of 12 fibres
9BB5(X)096G-T312A	96	8 tubes of 12 fibres
9BB5(X)144G-T312A	144	12 tubes of 12 fibres

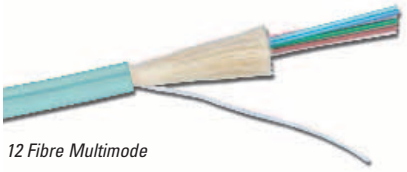
Use (X) to specify cable rating: R = OFNR, P = OFNP

6, 12, and 24 fibre counts available in lengths of 91m and up
All other fibre counts available in lengths of 500m and up

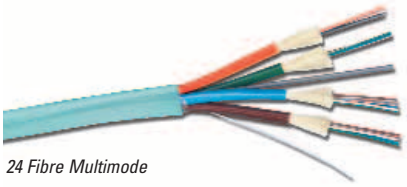
12 Fibre Singlemode



24 Fibre Singlemode



12 Fibre Multimode



24 Fibre Multimode

COMPLIANCE

- ISO/IEC 11801:2002 (OM3) [MM]
- ISO/IEC 11801:2002 (OS1) [SM]
- TIA/EIA-568-B.3 [MM & SM]
- TIA/EIA-568-B.3-1 [MM]
- TIA-598-C [MM & SM]
- IEC-60793-2-10 [MM]
- TIA-492AAAC laser bandwidth DMD specification [MM]
- IEC 60793-2-49 and TIA/EIA 455-220 DMD measurement test procedures [MM]
- ITU-T G.652.C [SM]
- OFNR: Communications Type OFNR (UL) and CSA FT4 c(UL) [MM & SM]
- OFNP: Communications Type OFNP (UL) and CSA FT6 c(UL) [MM & SM]

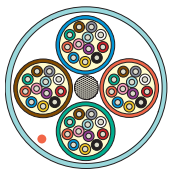
CABLE CONSTRUCTION

- Tight buffer design reduces cable OD and pathway space requirements
- Flexible, lightweight for ease of installation
- Thermoplastic outer and inner (sub-unit) jackets
- Aramid yarn strength members
- Dielectric central strength member
- Colour coded per TIA-598-C

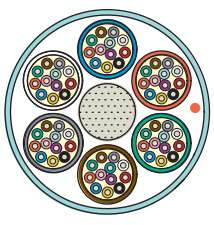
6 FIBRE

12 FIBRE

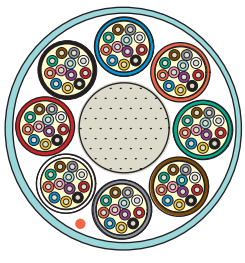
24 FIBRE



48 FIBRE



72 FIBRE



96 FIBRE

XGLO® 10 GIGABIT ETHERNET FIBRE OPTIC DISTRIBUTION CABLE — US

OPTICAL SPECIFICATIONS

Minimum Performance Parameters for XGLO 50/125 Multimode Fibre

Guaranteed Gigabit Transmission Distance (m)		Guaranteed 10 Gigabit Transmission Distance (m)		Minimum Bandwidth (MHz-km)		Maximum Attenuation (dB/km)		Group Index of Refraction	
850 nm	1300 nm	850 nm†	1300 nm††	850 nm	1300 nm	850 nm	1300 nm	850 nm	1300 nm
900	600	300	300	RML - 2000 OFL - 1500	OFL - 500	3.5	1.0	1.483	1.479

† 10GBASE-S †† 10GBASE-LX4

Minimum Performance Parameters for XGLO Singlemode Fibre

Cable Type	Maximum Attenuation* (dB/km)		Zero Dispersion		Index of Refraction	
	1310 nm	1550 nm	Wavelength (nm)	Slope (nm^2-km)	1310 nm	1550 nm
Inside Plant	0.50	0.50	1300-1324	<0.093	1.467	1.468

**Superior Low Water Peak Performance is exhibited across the full operating bandwidth*

Mode and Fibre Type	Core Size (Microns)	Cladding Size (Microns)	Coating Size (Microns)	Buffer Size (Microns)	Core Cladding Concentricity (Microns)
50/125µm	50 ± 3	125 ± 2	245 ± 10	900 ± 50	≤ 3.0
Singlemode	8.3 ± 1*	125 ± 1			≤ 0.8

**MFD = Mode Field Diameter: 8.8 to 9.3 ± 0.5µm @ 1310nm*

PHYSICAL SPECIFICATIONS

Fibre Count	Nominal Cable Diameter mm	Maximum Pulling Tension Newtons				Maximum Net Weight kg/km	
		Installation		Long Term			
	OFNR/OFNP	OFNR	OFNP	OFNR	OFNP	OFNR	OFNP
2	4.8	400	400	120	120	1	20
4	4.8	660	440	198	132	19	22
6	4.8	660	440	198	132	22	25
8	5.8	900	560	270	168	28	31
12	5.8	900	560	270	168	32	36
16	13.7	132	660	396	198	139	209
24	13.7	1320	660	396	198	139	209
36	16.5	1320	660	396	198	213	221
48	16.0	2700	1000	810	300	200	207
72	19.6	2700	1000	810	300	310	322
96	23.9	2700	1000	810	300	478	537
144	27.9	2700	1000	810	300	529	587

Fibre Count	Minimum Crush Resistance (N/mm)	Minimum Flex Resistance Cycles	Operating Temperature (°C)		Storage Temperature (°C)	Minimum Bend Radius	
						Installation	Long Term
	OFNR/OFNP	OFNR/OFNP	OFNR	OFNP	OFNR/OFNP	OFNR/OFNP	OFNR/OFNP
2-24	22	25/25/100	-20/70	-20/50	-40/70	15 x DIA.	10 x DIA.
36-144	22	25/25/100	-20/70	-20/50	-40/70	20 x DIA.	10 x DIA.

XGLO® 10 GIGABIT ETHERNET FIBRE OPTIC DISTRIBUTION CABLE — INTERNATIONAL

10G ip™

SINGLEMODE, YELLOW JACKET

PART #	FIBRE COUNT	CONSTRUCTION
9F8LB(X)-2F(XXXX)	2	1 tube of 2 fibres
9F8LB(X)-4A(XXXX)	4	1 tube of 4 fibres
9F8LB(X)-6B(XXXX)	6	1 tube of 6 fibres
9F8LB(X)-8C(XXXX)	8	1 tube of 8 fibres
9F8LB(X)-12D(XXXX)	12	1 tube of 12 fibres
9F8LB(X)-16A(XXXX)	16	4 tube of 4 fibres
9F8LB(X)-24B(XXXX)	24	4 tubes of 6 fibres
9F8LB(X)-48D(XXXX)	48	4 tubes of 12 fibres
9F8LB(X)-72D(XXXX)	72	6 tubes of 12 fibres

50/125µm MULTIMODE, AQUA JACKET

PART #	FIBRE COUNT	CONSTRUCTION
9F5LB(X)-2F(XXXX)	2	1 tube of 2 fibres
9F5LB(X)-4A(XXXX)	4	1 tube of 4 fibres
9F5LB(X)-6B(XXXX)	6	1 tube of 6 fibres
9F5LB(X)-8C(XXXX)	8	1 tube of 8 fibres
9F5LB(X)-12D(XXXX)	12	1 tube of 12 fibres
9F5LB(X)-16A(XXXX)	16	4 tube of 4 fibres
9F5LB(X)-24B(XXXX)	24	4 tubes of 6 fibres
9F5LB(X)-48D(XXXX)	48	4 tubes of 12 fibres
9F5LB(X)-72D(XXXX)	72	6 tubes of 12 fibres

Use (X) to specify cable rating: 1 = OFNR, 2 = OFNP, 3 = LS0H

Use (XXXX) to specify length in kilometres, use four characters including decimal point. The last "X" must be a zero (0) or five (5) only.

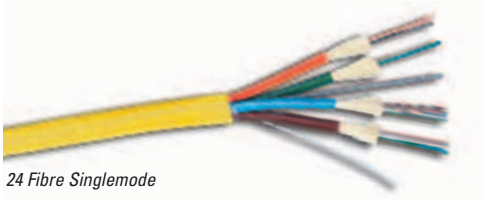
Example p/n: 9F5LB1-12D1.50:

(1.5 kilometres [1500 metres] of 50/125µm laser optimised 12-strand riser rated fibre optic cable)

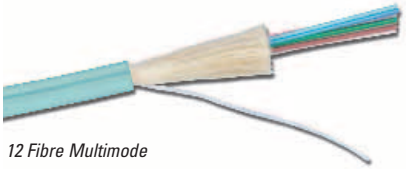
For orders of less than 1 km, the first "X" must be zero (0).

Example: 9F5LB1-12D0.55 (.550 kilometres [550 metres] of 50/125µm laser optimised 12-strand riser rated fibre optic cable)

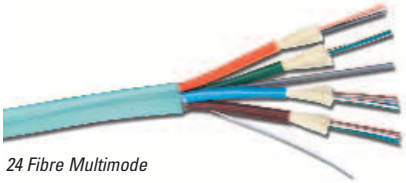
12 Fibre Singlemode



24 Fibre Singlemode



12 Fibre Multimode



24 Fibre Multimode

COMPLIANCE

- ISO/IEC 11801:2002 2nd Edition (OM3) [MM]
- ISO/IEC 11801:2002 2nd Edition (OS1) [SM]
- TIA/EIA-568-B.3 [MM & SM]
- TIA/EIA-568-B.3-1 [MM]
- TIA-598-C [MM & SM]
- IEC-60793-2-10 [MM]
- TIA-492AAAC laser bandwidth DMD specification [MM]
- IEC 60793-2-49 and TIA/EIA 455-220 DMD measurement test procedures [MM]
- ITU-T G.652.C [SM]
- LSOH:IEC 60332-1, IEC 61034, IEC 60754 [MM & SM]
- OFNR: Communications Type OFNR (UL) and CSA FT4 c(UL) [MM & SM]
- OFNP: Communications Type OFNP (UL) and CSA FT6 c(UL) [MM & SM]

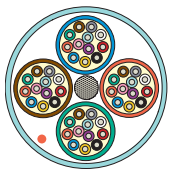
CABLE CONSTRUCTION

- Tight buffer design reduces cable OD and pathway space requirements
- Flexible, lightweight for ease of installation
- Thermoplastic outer and inner (sub-unit) jackets
- Aramid yarn strength members
- Dielectric central strength member
- Colour coded per TIA-598-C

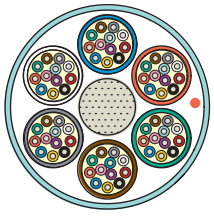
6 FIBRE

12 FIBRE

24 FIBRE



48 FIBRE



72 FIBRE

XGLO® 10 GIGABIT ETHERNET FIBRE OPTIC DISTRIBUTION CABLE — INTERNATIONAL

OPTICAL SPECIFICATIONS

Minimum Performance Parameters for XGLO 50/125 Multimode Fibre

Guaranteed Gigabit Transmission Distance (m)		Guaranteed 10 Gigabit Transmission Distance (m)		Minimum Bandwidth (MHz-km)		Maximum Attenuation (dB/km)		Group Index of Refraction	
850 nm	1300 nm	850 nm†	1300 nm††	850 nm	1300 nm	850 nm	1300 nm	850 nm	1300 nm
900	600	300	300	RML - 2000 OFL - 1500	OFL - 500	3.5	1.0	1.483	1.479

† 10GBASE-S †† 10GBASE-LX4

Minimum Performance Parameters for XGLO Singlemode Fibre

Cable Type	Maximum Attenuation* (dB/km)		Zero Dispersion		Index of Refraction	
	1310 nm	1550 nm	Wavelength (nm)	Slope (nm^2-km)	1310 nm	1550 nm
Inside Plant	0.50	0.50	1300-1324	<0.093	1.467	1.468

**Superior Low Water Peak Performance is exhibited across the full operating bandwidth*

Mode and Fibre Type	Core Size (Microns)	Cladding Size (Microns)	Coating Size (Microns)	Buffer Size (Microns)	Core Cladding Concentricity (Microns)
50/125µm	50 ± 3	125 ± 2	245 ± 10	900 ± 50	≤ 3.0
Singlemode	8.3 ± 1*	125 ± 1			≤ 0.8

**MFD = Mode Field Diameter: 8.8 to 9.3 ± 0.5µm @ 1310nm*

PHYSICAL SPECIFICATIONS

Fibre Count	Nominal Cable Diameter mm	Maximum Pulling Tension Newton				Maximum Net Weight kg/km	
		Installation		Long Term			
	OFNR/LSOH/OFNP	OFNR/LSOH	OFNP	OFNR/LSOH	OFNP	OFNR/LSOH	OFNP
2	4.8	400	400	120	120	17	20
4	4.8	660	440	198	132	19	22
6	4.8	660	440	198	132	22	25
8	5.8	900	560	270	168	28	31
12	5.8	900	560	270	168	32	36
16	13.7	1320	660	396	198	139	209
24	13.7	1320	660	396	198	139	209
48	16.0	2700	100	810	300	200	207
72	19.6	2700	1000	810	300	310	322

Fibre Count	Minimum Crush Resistance (N/mm)	Minimum Flex Resistance Cycles	Operating Temperature (°C)		Storage Temperature (°C)	Minimum Bend Radius	
						Installation	Long Term
	OFNR/LSOH/OFNP	OFNR/LSOH/OFNP	OFNR/LSOH	OFNP	OFNR/LSOH/OFNP	OFNR/LSOH/OFNP	OFNR/LSOH/OFNP
2-24	22	25/25/100	-20/70	-20/50	-40/70	15 x DIA.	10 x DIA.
48, 72	22	25/25/100	-20/70	-20/50	-40/70	20 x DIA.	10 x DIA.

LIGHTSYSTEM® GIGABIT ETHERNET FIBRE OPTIC DISTRIBUTION CABLE — US

SINGLEMODE, YELLOW JACKET

PART #	FIBRE COUNT	CONSTRUCTION
9BB8(X)002B-E105A	2	1 tube of 2 fibres
9BB8(X)004C-E105A	4	1 tube of 4 fibres
9BB8(X)006D-E105A	6	1 tube of 6 fibres
9BB8(X)008E-E105A	8	1 tube of 8 fibres
9BB8(X)012G-E105A	12	1 tube of 12 fibres
9BB8(X)016C-E105A	16	4 tube of 4 fibres
9BB8(X)024D-E105A	24	4 tubes of 6 fibres
9BB8(X)036D-E105A	36	6 tubes of 6 fibres
9BB8(X)048G-E105A	48	4 tubes of 12 fibres
9BB8(X)072G-E105A	72	6 tubes of 12 fibres
9BB8(X)096G-E105A	96	8 tubes of 12 fibres
9BB8(X)144G-E105A	144	12 tubes of 12 fibres

50/125µm MULTIMODE, ORANGE JACKET

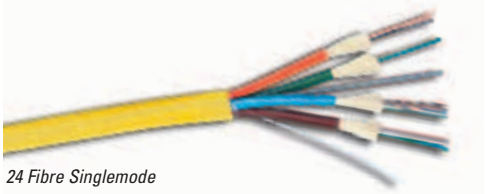
PART #	FIBRE COUNT	CONSTRUCTION
9BB5(X)002B-T109A	2	1 tube of 2 fibres
9BB5(X)004C-T109A	4	1 tube of 4 fibres
9BB5(X)006D-T109A	6	1 tube of 6 fibres
9BB5(X)008E-T109A	8	1 tube of 8 fibres
9BB5(X)012G-T109A	12	1 tube of 12 fibres
9BB5(X)016C-T109A	16	4 tubes of 4 fibres
9BB5(X)024D-T109A	24	4 tubes of 6 fibres
9BB5(X)036D-T109A	36	6 tubes of 6 fibres
9BB5(X)048G-T109A	48	4 tubes of 12 fibres
9BB5(X)072G-T109A	72	6 tubes of 12 fibres
9BB5(X)096G-T109A	96	8 tubes of 12 fibres
9BB5(X)144G-T109A	144	12 tubes of 12 fibres

62.5/125µm MULTIMODE, GREY JACKET

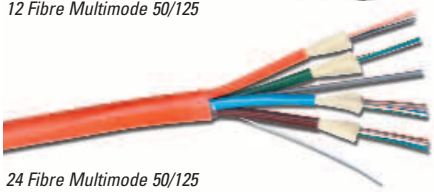
PART #	FIBRE COUNT	CONSTRUCTION
9BB6(X)002B-G104A	2	1 tube of 2 fibres
9BB6(X)004C-G104A	4	1 tube of 4 fibres
9BB6(X)006D-G104A	6	1 tube of 6 fibres
9BB6(X)008E-G104A	8	1 tube of 8 fibres
9BB6(X)012G-G104A	12	1 tube of 12 fibres
9BB6(X)016C-G104A	16	4 tubes of 4 fibres
9BB6(X)024D-G104A	24	4 tubes of 6 fibres
9BB6(X)036D-G104A	36	6 tubes of 6 fibres
9BB6(X)048G-G104A	48	4 tubes of 12 fibres
9BB6(X)072G-G104A	72	6 tubes of 12 fibres
9BB6(X)096G-G104A	96	8 tubes of 12 fibres
9BB6(X)144G-G104A	144	12 tubes of 12 fibres

Use (X) to specify cable rating: R = OFNR, P = OFNP
SINGLEMODE:
All fibre counts available in lengths of 500m and up
MULTIMODE:
62.5/125µm: 6, 12, and 24 fibre count come in reel lengths 91.4m and up
50/125 and all other 62.5 fibre counts come in reel lengths 500m and up

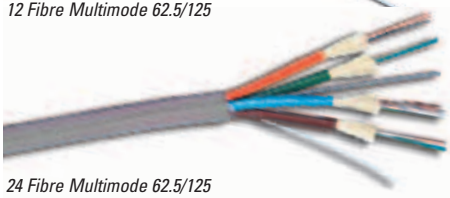

12 Fibre Singlemode


24 Fibre Singlemode


12 Fibre Multimode 50/125


24 Fibre Multimode 50/125


12 Fibre Multimode 62.5/125


24 Fibre Multimode 62.5/125

COMPLIANCE

- ISO/IEC 11801:2002 (OM1) [MM]
- ISO/IEC 11801:2002 (OS1) [SM]
- ANSI/TIA/EIA-568-B.3 [MM & SM]
- TIA-598-C [MM & SM]
- OFNR: Communications Type OFNR (UL) and CSA FT4 c(UL)
- OFNP: Communications Type OFNP (UL) and CSA FT6 c(UL)

CABLE CONSTRUCTION

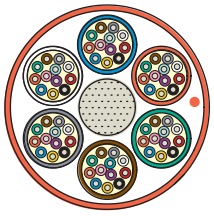
- Tight buffer design for easy connectorisation
- Flexible, lightweight for ease of installation
- Thermoplastic outer and inner (sub-unit) jackets
- Aramid yarn strength members
- Dielectric central strength member
- Colour coded per TIA-598-C

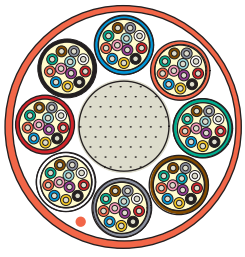

6 FIBRE


12 FIBRE


24 FIBRE


48 FIBRE


72 FIBRE


96 FIBRE

LIGHTSYSTEM® GIGABIT ETHERNET FIBRE OPTIC DISTRIBUTION CABLE — US

OPTICAL SPECIFICATIONS

Minimum Performance Parameters for LightSystem Singlemode and 50/125 & 62.5/125 Multimode Fibre

Fibre Type	Wavelength nm	Typical Attenuation (dB/km)	Maximum Attenuation (dB/km)	Minimum Modal Bandwidth (MHz-km)	Guaranteed Gigabit Transmission Distance* (Metres)
		Standard	Standard	Standard	Standard
50/125	850	2.6	3.5	500	550
	1300	0.6	1.0	500	550
62.5/125	850	2.9	3.5	200	275
	1300	0.9	1.0	500	550
Singlemode	1310	0.35	0.7	N/A	3000
	1550	0.25	0.7	N/A	3000

**The protocol pertinent to the transmission distance as noted is Gigabit Ethernet per IEEE 802.3:2005.*

Mode and Fibre Type	Core Size (Microns)	Cladding Size (Microns)	Coating Size (Microns)	Buffer Size (Microns)
50/125mm	50 ± 3	125 ± 2	245 ± 10	900 ± 50
62.5/125mm	62.5 ± 3	125 ± 2	245 ± 10	900 ± 50
Singlemode	8.3 ± 1**	125 ± 1	245 ± 10	900 ± 50

***MFD = Mode Field Diameter. 8.8 to 9.3 ± 0.5µm @ 1310nm*

PHYSICAL SPECIFICATIONS

Fibre Count	Nominal Cable Diameter mm	Maximum Pulling Tension Newtons				Maximum Net Weight kg/km	
		Installation		Long Term			
	OFNR/OFNP	OFNR	OFNP	OFNR	OFNP	OFNR	OFNP
2	4.8	400	400	120	120	1	20
4	4.8	66	44	198	132	19	22
6	4.8	660	440	19	132	2	25
8	5.8	900	560	270	168	28	3
12	5.8	900	560	270	168	3	36
16	13.7	132	66	396	19	139	209
24	13.7	1320	660	396	19	139	209
36	16.5	1320	660	396	198	21	221
48	16.0	2700	1000	810	300	20	207
72	19.6	2700	1000	810	300	310	322
96	23.9	2700	1000	810	300	478	537
144	27.9	2700	1000	810	300	529	587

Fibre Count	Minimum Crush Resistance (N/mm)	Minimum Flex Resistance Cycles	Operating Temperature (°C)		Storage Temperature (°C)	Minimum Bend Radius	
						Installation	Long Term
	OFNR/OFNP	OFNR/OFNP	OFNR	OFNP	OFNR/OFNP	OFNR/OFNP	OFNR/OFNP
2-24	22	25/25/100	-20/70	-20/50	-40/70	15 x DIA.	10 x DIA.
36-144	22	25/25/100	-20/70	-20/50	-40/70	20 x DIA.	10 x DIA.

LIGHTSYSTEM® GIGABIT ETHERNET FIBRE OPTIC DISTRIBUTION CABLE — INTERNATIONAL

SINGLEMODE, YELLOW JACKET

PART #	FIBRE COUNT	CONSTRUCTION
9F8B(X)-2F(XXXX)	2	1 tube of 2 fibres
9F8B(X)-4A(XXXX)	4	1 tube of 4 fibres
9F8B(X)-6B(XXXX)	6	1 tube of 6 fibres
9F8B(X)-8C(XXXX)	8	1 tube of 8 fibres
9F8B(X)-12D(XXXX)	12	1 tube of 12 fibres
9F8B(X)-16A(XXXX)	16	4 tube of 4 fibres
9F8B(X)-24B(XXXX)	24	4 tubes of 6 fibres
9F8B(X)-48D(XXXX)	48	4 tubes of 12 fibres
9F8B(X)-72D(XXXX)	72	6 tubes of 12 fibres

50/125µm MULTIMODE, ORANGE JACKET

PART #	FIBRE COUNT	CONSTRUCTION
9F5B(X)-2F(XXXX)	2	1 tube of 2 fibres
9F5B(X)-4A(XXXX)	4	1 tube of 4 fibres
9F5B(X)-6B(XXXX)	6	1 tube of 6 fibres
9F5B(X)-8C(XXXX)	8	1 tube of 8 fibres
9F5B(X)-12D(XXXX)	12	1 tube of 12 fibres
9F5B(X)-16A(XXXX)	16	4 tubes of 4 fibres
9F5B(X)-24B(XXXX)	24	4 tubes of 6 fibres
9F5B(X)-48D(XXXX)	48	4 tubes of 12 fibres
9F5B(X)-72D(XXXX)	72	6 tubes of 12 fibres

62.5/125µm MULTIMODE, GREY JACKET

PART #	FIBRE COUNT	CONSTRUCTION
9F6B(X)-2F(XXXX)	2	1 tube of 2 fibres
9F6B(X)-4A(XXXX)	4	1 tube of 4 fibres
9F6B(X)-6B(XXXX)	6	1 tube of 6 fibres
9F6B(X)-8C(XXXX)	8	1 tube of 8 fibres
9F6B(X)-12D(XXXX)	12	1 tube of 12 fibres
9F6B(X)-16A(XXXX)	16	4 tubes of 4 fibres
9F6B(X)-24B(XXXX)	24	4 tubes of 6 fibres
9F6B(X)-48D(XXXX)	48	4 tubes of 12 fibres
9F6B(X)-72D(XXXX)	72	6 tubes of 12 fibres

Use (X) to specify cable rating: 1 = OFNR, 2 = OFNP, 3 = LS0H

Use (XXXX) to specify length in kilometres, use four characters including decimal point. The last "X" must be a zero (0) or five (5) only.

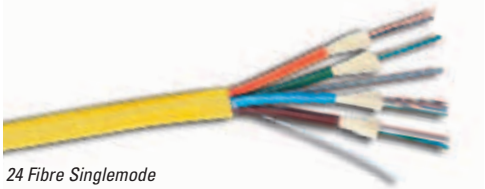
Example p/n: 9F5LB1-12D1.50:

(1.5 kilometres [1500 metres] of 50/125µm laser optimised 12-strand riser rated fibre optic cable)

For orders of less than 1 km, the first "X" must be zero (0).

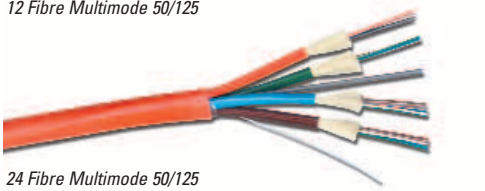
Example: 9F5LB1-12D0.55 (.550 kilometres [550 metres] of 50/125µm laser optimised 12-strand riser rated fibre optic cable)

12 Fibre Singlemode



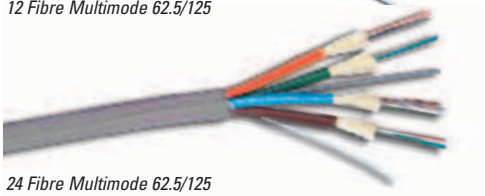
24 Fibre Singlemode

12 Fibre Multimode 50/125



24 Fibre Multimode 50/125

12 Fibre Multimode 62.5/125



24 Fibre Multimode 62.5/125

COMPLIANCE

- ISO/IEC 11801:2002 (OM1) [MM]
- ISO/IEC 11801:2002 (OS1) [SM]
- TIA/EIA-568-B.3 [MM & SM]
- TIA-598-C [MM & SM]
- LS0H: IEC 60332-1, IEC 61034, IEC 60754
- Communications Type OFNR (UL) and CSA FT4 c(UL)
- Communications Type OFNP (UL) and CSA FT6 c(UL)

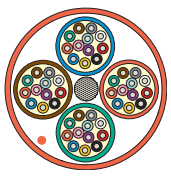
CABLE CONSTRUCTION

- Tight buffer design for easy connectorisation
- Flexible, lightweight for ease of installation
- Thermoplastic outer and inner (sub-unit) jackets
- Aramid yarn strength members
- Dielectric central strength member
- Colour coded per TIA-598-C

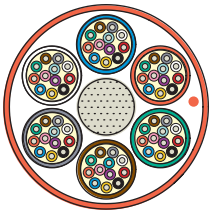
6 FIBRE

12 FIBRE

24 FIBRE



48 FIBRE



72 FIBRE

LIGHTSYSTEM® GIGABIT ETHERNET FIBRE OPTIC DISTRIBUTION CABLE — INTERNATIONAL

OPTICAL SPECIFICATIONS

Minimum Performance Parameters for LightSystem Singlemode and 50/125 & 62.5/125 Multimode Fibre

Fibre Type	Wavelength nm	Typical Attenuation (dB/km)	Maximum Attenuation (dB/km)	Minimum Modal Bandwidth (MHz-km)	Guaranteed Gigabit Transmission Distance* (Metres)
		Standard	Standard	Standard	Standard
50/125	850	2.6	3.5	500	550
	1300	0.6	1.0	500	550
62.5/125	850	2.9	3.5	200	275
	1300	0.9	1.0	500	550
Singlemode	1310	0.35	0.7	N/A	3000
	1550	0.25	0.7	N/A	3000

**The protocol pertinent to the transmission distance as noted is Gigabit Ethernet per IEEE 802.3:2005.*

Mode and Fibre Type	Core Size (Microns)	Cladding Size (Microns)	Coating Size (Microns)	Buffer Size (Microns)
50/125mm	50 ± 3	125 ± 2	245 ± 10	900 ± 50
62.5/125mm	62.5 ± 3	125 ± 2	245 ± 10	900 ± 50
Singlemode	8.3 ± 1**	125 ± 1	245 ± 10	900 ± 50

***MFD = Mode Field Diameter. 8.8 to 9.3 ± 0.5µm @ 1310nm*

PHYSICAL SPECIFICATIONS

Fibre Count	Nominal Cable Diameter mm	Maximum Pulling Tension Newtons				Maximum Net Weight kg/km	
		Installation		Long Term			
	OFNR/LSOH/OFNP	OFNR/LSOH	OFNP	OFNR/LSOH	OFNP	OFNR/LSOH	OFNP
2	4.8	400	400	120	120	17	20
4	4.8	660	440	198	132	19	22
6	4.	660	440	198	132	22	25
8	5.8	900	560	270	168	28	31
12	5.8	900	560	270	168	32	36
16	13.7	1320	660	396	198	139	209
24	13.7	1320	660	396	198	139	209
48	16.0	2700	1000	810	300	200	207
72	19.6	2700	1000	810	300	310	322

Fibre Count	Minimum Crush Resistance (N/mm)	Minimum Flex Resistance Cycles	Operating Temperature (°C)		Storage Temperature (°C)	Minimum Bend Radius	
						Installation	Long Term
	OFNR/LSOH/OFNP	OFNR/LSOH/OFNP	OFNR/LSOH	OFNP	OFNR/LSOH/OFNP	OFNR/LSOH/OFNP	OFNR/LSOH/OFNP
2-24	22	25/25/100	-20/70	-20/50	-40/70	15 x DIA.	10 x DIA.
48, 72	22	25/25/100	-20/70	-20/50	-40/70	20 x DIA.	10 x DIA.

INDUSTRIAL MAX® 6 CONNECTIVITY

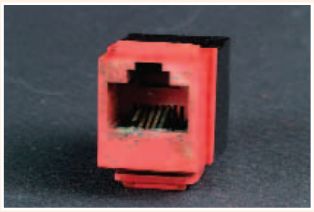
Siemon is well-known for its industry leading category 6 products. Now those same high performance products are available with our patent-pending Industrial MAX housings. Industrial MAX 6 outlets and modular patch cords provide an IP66/IP67-rated seal, protecting plug and jack contacts from dust, moisture, vibration, and common cleaning chemicals. The Industrial MAX 6 solution is ideal for protecting valuable connections in laboratory environments, hospitals, food processing plants and other harsh environments.

Pyramid Wire Entry System on S310® blocks separates paired conductors when lacing cables to simplify and reduce installation time.

1. **Standardised Interface** — The Industrial MAX Connector has been recognised by the Open DeviceNet Vendor Association (ODVA), TIA/EIA TR 42.9 and IEC PAS 61076-3-111
2. **Easy Termination** — The UTP Industrial MAX outlet utilises a standard 110 tool for quick and easy punch-down termination
3. **Universal Wiring** — Each outlet is compatible with both T568A and T568B wiring options
4. **Ensures Proper Seal** — Bayonet-style mating ensures proper plug depth into the outlet and an IP66/IP67 rated seal

MEETS HARSH DEMANDS OF THE ENVIRONMENT
Industrial MAX 6 connectors withstand humidity, dust and vibration.

VIBRATION CAUSES PITTING IN TYPICAL OUTLETS
Exposure to vibration can cause pitting in contacts between typical plugs and outlets. This pitting can cause intermittent transmission problems.



HUMIDITY AFFECTS TYPICAL OUTLETS
Humidity corrodes contact pins in typical outlets. Repeated exposure can destroy the contacts, rendering the outlet unusable. The Industrial MAX outlet's housing prevents corrosion.

INDUSTRIAL MAX 6 OUTLETS

PATENTED

The Industrial MAX outlet features an unshielded (UTP) category 6 MAX module housed in a protective shell. The outlet's outer housing is made of durable, chemical-resistant, industrial-grade thermoplastic and features Siemon's patent-pending bayonet-style mating design. Category 6 performance is guaranteed in harsh environments.

The industrial connector's bayonet-style mating prevents over-tightening which could damage contact pins inside the outlet or under-tightening which prevents a proper seal.

PART #	DESCRIPTION
X6	Category 6 UTP, industrial outlet, T568A/B
X6S	Category 6 F/UTP screened, industrial outlet, T568A/B

INDUSTRIAL MAX 6 MODULAR CABLE ASSEMBLIES

PATENTED

Industrial MAX 6 modular cable assemblies combine the high performance and quality that Siemon cords are known for with a protective industrial-grade plug housing. These assemblies feature stranded cordage with a modular plug on one end and an industrial plug on the other.

PART #	DESCRIPTION
XC6-(XX)	Category 6 UTP, industrial plug-to-industrial plug
XC6-(XX)-B05	Category 6 UTP, industrial plug-to-modular RJ-45 plug, yellow boot

Use (XX) to specify length: 03 = 0.9m, 05 = 1.5m, 07 = 2.1m, 10 = 3.1m, 15 = 4.6m

INDUSTRIAL MAX® 5e OUTLETS

PATENTED

The Industrial MAX outlet features a category 5e MAX module housed in a protective shell. The outlet's outer housing is made of durable, chemical-resistant, industrial-grade thermoplastic and features Siemon's patent-pending bayonet-style mating design. Guaranteed category 5e performance to 160 MHz even in the most punishing environments.

X5. . . . . .
Category 5e UTP,
industrial outlet, T568A/B

X5S . . . . . .
Category 5e F/UTP screened,
industrial outlet, T568A/B

X5-X5S . . . . . .
Category 5e F/UTP screened,
industrial bulkhead coupler

INDUSTRIAL MAX 5e PLUGS

PATENTED

The Industrial MAX Plug features a category 5e modular plug contained in Siemon's industrial-grade housing with patent-pending bayonet-style mating design. The plug can be terminated in the field, allowing custom lengths to be assembled quickly on site in the event a cable is cut or damaged. It terminates twisted-pair cable with 22 – 26 AWG (0.64 – 0.40mm) solid or 7-strand conductors with an insulated conductor diameter of 0.86 – 0.99mm.

XP85 . . . . . .
Category 5e UTP,
industrial plug,
8-position, 8-contacts

XP85S . . . . . .
Category 5e F/UTP screened,
industrial plug,
8-position, 8-contacts

INDUSTRIAL MAX 5e MODULAR CABLE ASSEMBLIES

PATENTED

Designed to withstand the rigors of a factory floor environment, our industrial category 5e stranded cordage is petroleum and UV resistant, is not effected by common chemicals and water, operates in a wider temperature range, and provides a longer flex life than normal cords.

A variety of cord options are available to meet a variety of customer needs — UTP, screened, category 5e industrial plug to standard RJ-45, and more. Choose the industrial modular cable assembly that best suits your needs for a complete end-to-end Siemon solution.

PART #	DESCRIPTION
XC5-(XX)	Category 5e UTP, industrial plug-to-industrial plug
XC5-(XX)-B05	Category 5e UTP, industrial plug-to-modular RJ-45 plug, yellow boot
XC5S-(XX)	Category 5e F/UTP screened, industrial plug-to-industrial plug
XC5S-(XX)-B05	Category 5e F/UTP screened, industrial plug-to-modular RJ-45 plug, yellow boot

Use (XX) to specify length: 03 = 0.9m, 05 = 1.5m, 07 = 2.1m, 10 = 3.1m, 15 = 4.6m, 20 = 6.1m

INDUSTRIAL LC FIBRE CONNECTIVITY

Another first from Siemon — the Industrial LC Fibre system. The Siemon Industrial LC Fibre solution provides a robust fibre connection with an IP66/FP67-rated seal and is ideal for protecting valuable connections in laboratory environments, hospitals, food processing plants and other harsh environments. The Siemon Industrial Fibre solution is ideal for installations requiring extended distances (up to 300 metres), in close proximity to heavy sources of EMI, or where fibre interfaces are required.

Rear of adapter accepts standard LC multimode connectors.

1. **Robust Design** — Protects fibre connections in virtually any harsh environment
2. **High Performance** — Meets ANSI/TIA/EIA-568-B.3, ISO/IEC 11801 Ed 2.0, and Siemon LightSystem® specifications for multimode components
3. **Proper Seal** — Bayonet-style mating ensures proper fibre alignment and an IP66/IP67 rated seal
4. **Specialized Bend Relief** — Compression fitting provides a superior rear seal and ensures fibre meet minimum bend radius requirements
5. **Field-Termination** — Plug includes two industrial qualified multimode LC connectors that accepts 2 strand, round, breakout style fibre optic cable

PRECISION PERFORMANCE
The Industrial LC provides reliability with leading edge technology for harsh environment applications where performance is critical.

ROBUST AND RELIABLE
Industrial Fibre connections bring the performance benefits of fibre to the factory floor.

MEETS HARSH DEMANDS OF THE ENVIRONMENT
The Industrial LC connector is ideal in areas where chemicals, corrosive gases and liquids are commonplace.

INDUSTRIAL LC FIBRE PLUG AND OUTLET

PATENT PENDING

PART #	DESCRIPTION
XPLC2-MM	Industrial LC fibre plug, multimode, duplex. Includes two multimode LC connectors.
XLC-MM	Industrial LC fibre adapter, multimode, duplex
XPM-CAP	Industrial LC plug dust cap with chain
X-CAP	Industrial outlet dust cap with chain

Note: Industrial LC fibre plug accepts 2 strand, round, breakout style fibre optic cable with O.D. ranges from 5mm – 8mm with two 2.4mm – 3.0mm jacketed subunits.

INDUSTRIAL LC FIBRE UPGRADE KIT

Use the Industrial LC Upgrade Kit for Industrial LC connector terminations. The kit contains a dual LC polishing puck, which decreases polish time by 50%. Also included is a dual microscope adapter, which allows inspection of the fibres after the connector has been terminated.

PART #	DESCRIPTION
FTERM-XLC	Industrial LC fibre termination kit used in conjunction with FTERM-L2 includes dual polishing puck and microscope adapter
FT-LC2PUCK	Dual LC polishing puck
FT-MSLC2HEAD	Dual LC microscope adapter

RELATED PRODUCTS *LightSpeed*® Termination Kit page 112

INDUSTRIAL MAX® DUST CAPS

The Industrial MAX dust caps are the ideal way to protect your investment in your industrial cabling system. Outlet dust caps can be used to protect unused outlets or to seal an outlet during wash down periods when the outlet and plug may be disconnected. Plug dust caps protect Industrial MAX patch cords from exposure to elements or accidental damage when not mated to an outlet.

Dust caps are constructed of industrial-grade thermoplastic or robust zinc die cast metal for superior protection and durability. Additionally, outlet and plug dust caps feature a retention chain, which prevents them from being misplaced when not in use.

XP-CAP.....
Industrial plug dust cap
with retention chain

X-CAP .....
Industrial outlet dust cap
with retention chain

XPM-CAP.....
Metal industrial plug dust cap
with retention chain

INDUSTRIAL SURFACE MOUNT BOX

The Siemon Industrial Surface Mount Box (IBOX) mounts either Siemon copper or fibre industrial outlets. Boxes provide an IP66/IP67 (NEMA 4X) seal and can be mounted on virtually any flat surface. Available in 1-, 2-, 3-, and 4-port versions. Compression fittings provided for cable entry.

X-IBOX-01.....
Industrial surface mount box,
1-port, supplied with 1 cable entry
compression fitting

X-IBOX-02.....
Industrial surface mount box,
2-port, supplied with 2 cable entry
compression fittings

X-IBOX-03.....
Industrial surface mount box,
3-port, supplied with 3 cable entry
compression fittings

X-IBOX-04.....
Industrial surface mount box,
4-port, supplied with 4 cable entry
compression fittings

TECHNICAL TIP!
Contact Technical Support for punch tool to create industrial knockouts for custom mounting.

INDUSTRIAL MAX STAINLESS STEEL FACEPLATES

Mount Siemon's Industrial MAX outlets into these stainless steel faceplates for a protective seal from moisture and debris. The faceplates are available in 1-, 2- and 4-port options with a rear sealing gasket and carry an IP44 rating.

XFP-S-01-SS.....
Single gang faceplate,
1-port, stainless steel

XFP-S-02-SS.....
Single gang faceplate,
2-port, stainless steel

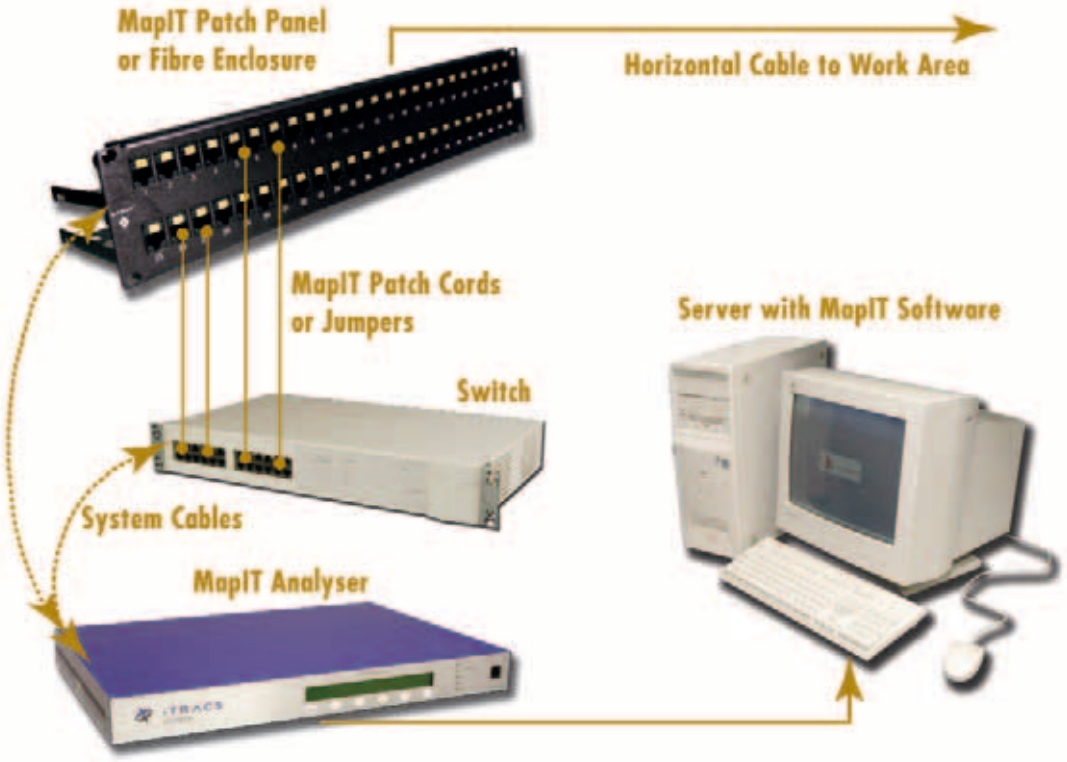
XFP-D-04-SS.....
Double gang faceplate,
4-port, stainless steel

Faceplates include mounting screws with sealed screw head.

MapIT™

MapIT SYSTEMS

Siemon MapIT solution helps you better manage and protect your IT infrastructure. The system tracks physical layer connections and IP enabled network devices in real-time. While other software solutions may detect IP devices on the network, they cannot track them to an exact physical location. The MapIT solution provides a detailed view of your infrastructure, whether it is in your headquarters building or at a remote office on the other side of the world. This powerful combination of Siemon intelligent cabling products and advanced software takes management of complex data/telecom networks and critical applications to a new level.



This combination of intelligent cabling components and advanced software can provide the following capabilities:

- Infrastructure Documentation
- Physical Layer Monitoring
- Enhanced Security
- Asset Management
- Remote Site Management
- Improve Work Order Process
- Flexibility for the Future

MapIT IM™ SOFTWARE

The MapIT system begins with Siemon's MapIT IM software. This robust program manages, monitors and documents your network infrastructure through Siemon's MapIT –enabled cabling and connectivity products. For more information on MapIT IM software, including features, capabilities and system requirements, please contact your local Siemon representative, or visit www.siemon.com.

PART #	DESCRIPTION
M-PSL	MapIT software port license, includes 1-year Gold Level Maintenance
M-5ASL	MapIT Administrator Seat License (five additional administrative seat licenses)

MapIT SENSOR STRIPS

MapIT sensor strips* are mounted to active equipment blades to track LAN connections.

PCBSS-24

PART #	DESCRIPTION
PCBSS-24-(XX)	Rigid PCB Sensor Strip for mounting above LAN equipment ports, 24-port version

Use (XX) to designate equipment type:
01 = Cisco 4000 and 6000, 48-port blades,
02 = Cisco 3500, 48-port blades,
03 = Cisco 3500, 24-port blades

PCBSS-16-01	Rigid PCB Sensor Strip for mounting above Cisco 16-port GBIC blade

**Other options may be available. Contact our Technical Support Department for more information.*

MapIT ANALYSERS

MapIT Analysers provide the link between the network cabling system and the MapIT software. They are available in multiple sizes and options to provide a cost-effective solution for any size installation.

M-A-1U

M-A-6U

PART #	DESCRIPTION
M-A-1U	MapIT 1U Master Analyser, manages 240 ports/120 channels, 1 U
M-A-6U	MapIT 6U Master Analyser, manages 480 ports/240 channels with expansion capabilities, 6 U
M-SA-1U	MapIT 1U Standalone Analyser, manages 240 ports/120 channels, no expansion capabilities, 1 U
M-SA-6U	MapIT 6U Standalone Analyser, manages 480 ports/240 channels, with expansion capabilities, 6 U
M-LA-1U	MapIT 1U Link Analyser, manages 240 ports/120 channels, must be used with Master Analyser, 1 U
M-LA-6U	MapIT 6U Link Analyser, manages 480 ports/240 channels, must be used with Master Analyser, 6 U
M-EC-6U	MapIT expansion card for 6U Master and Link Analysers, 240 port/120 channel capacity
M-MINI-1U	MapIT 1U Mini Analyser, manages 128 ports/64 channel capacity, no expansion capabilities, 1 U

Note: 1 U = 44.5mm

MapIT SYSTEM CABLES

MapIT system cables connect analysers to other system elements such as patch panels, enclosures and sensor strips. Single ended cables can be cut to length eliminating excess slack. All single-ended assemblies are constructed using .40mm (26 AWG) solid, non-plenum cable.

M-A-IDC

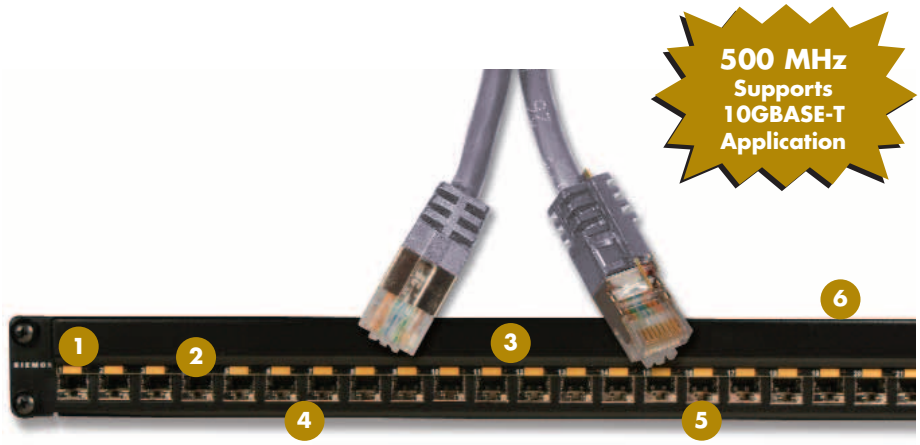
PART #	DESCRIPTION
M-A-IDC-(XX)	Single-ended analyser cable; connects analyser to patch panel or fibre enclosure
M-A-PCB-(XX)	analyser to PCB sensor strip cable
M-MA-IDC-(XX)	Single-ended mini-analyser cable; connects mini-analyser to patch panel or fibre enclosure
M-MA-PCB-(XX)	Mini-analyser to PCB sensor strip cable
M-LINK-(XX)	Link cable, connects master analyser to link analyser

Use (XX) to specify length:
03 = 0.91m, 07 = 2.13m,10 = 3.05m, 15 = 4.57m, 20 = 6.10m, 25 = 7.6m, 50 = 15.2m

10G 6A™ F/UTP SCREENED MapIT

MapIT™ 10G ip™

Combining the performance of Siemon's screened 10G 6A cabling system with innovative MapIT infrastructure management software, Siemon's 10G 6A F/UTP MapIT intelligent patching system is the ultimate intelligent infrastructure management solution.



1. **Robust Sensor Connections** — "Intellitab" sensors pads feature 50 microinches of gold over nickel for long-term reliability and resistance to corrosion
2. **Modularity** — Panels feature snap-in keystone-style 10G 6A F/UTP MAX outlets for easy, flexible installation
3. **High Density** — 24 intelligent 10Gb/s ports in just 1 U
4. **Durability** — Black anodised finish and rolled steel edges provide a durable, aesthetic appearance
5. **Reduced Alien Crosstalk** — 10G 6A F/UTP MAX modules virtually eliminate alien crosstalk
6. **Integrated Rear Cable Manager** — Facilitate organised routing of cables to individual ports

SIMPLE, TOOL-LESS TERMINATION
Modules can be terminated in less than 3 minutes with standard tools.

EASY ANALYSER CONNECTIONS
Versatile S110 style connectors support plug or punch-down analyser I/O connections.

QUICK-GROUND™ TERMINATION
No additional steps required for termination. Cable shield is automatically terminated within the outlet without the use of additional tools.

10G 6A F/UTP SCREENED MapIT PATCH PANELS

PATENTED

These panels combine 10G 6A F/UTP screened MAX modular connectivity with embedded MapIT sensor technology. Each port has a robust "intellitab" sensor pad, which can track connections between patch panels or LAN equipment. The rear of the panel features 110 style connections for termination of I/O cables. This allows analyser I/O cables to be cut to length in the field and terminated to the rear of the patch panel.

PART #	DESCRIPTION
M-PNL-K-24	24-port 10G 6A F/UTP screened MapIT patch panel, T568A/B, 1 U, MapIT enabled. Includes 24 screened 10G 6A keystone MAX modules (p/n: 10GMX-KS)

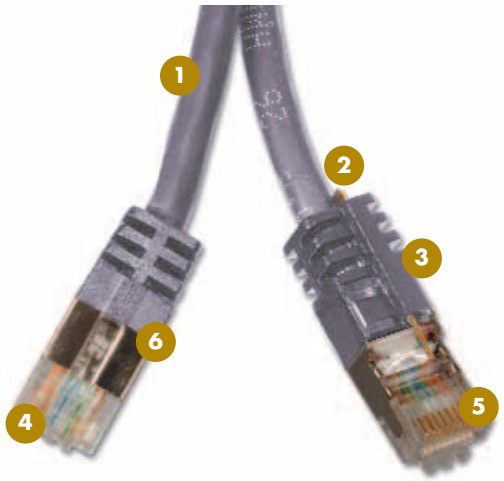
Panels include cable ties, designation labels and mounting hardware.

Note: 1 U = 44.5mm

RELATED PRODUCTS 10G 6A F/UTP Cable pages 18-19

10G 6A™ F/UTP SCREENED MapIT MC® MODULAR CORDS

10G 6A F/UTP screened MapIT modular cords meet or exceed all performance standards for support of 10GBASE-T. These cords also feature patented MapIT technology — a 9th wire and 50 microinches gold plated sensor pins contained in a robust over-moulded boot. This embedded sensor technology enables tracking of connections between patch panel and LAN equipment ports.



1. **Superior Cord Performance** — Cords feature category 7 stranded cable for superior transmission performance
2. **Sensor Pin** — is accessible at the rear of the boot for test and mapping purposes
3. **Innovative Strain Relief** — Over-moulded boots provide plug to cable strain relief and retention of sensor pin
4. **Transmission Tested** — 100% transmission testing ensures component and channel performance
5. **Durability** — Sensor pins feature 50 microinches gold plating for long-term contact reliability and resistance to corrosion
6. **Latch Guard** — Protects RJ45 latch

HIGH PERFORMANCE PATCH CORDS
Patented metallic isolator shields pairs inside plug for optimum NEXT performance.

HIGH DENSITY
Offset pogo pin position optimized for stacked switch applications.

EXCEEDS AUGMENTED CATEGORY 6A
100% transmission testing ensures margin well beyond augmented category 6 modular cord specifications to provide optimum field performance.

10G 6A F/UTP SCREENED MapIT MC MODULAR CORDS

PATENTED

Siemon 10G 6A F/UTP screened MapIT MC modular cords are constructed with the highest quality materials and 100% transmission tested to guarantee performance in excess of augmented category 6 parametres.

PART #	DESCRIPTION
M-10GMCS-(XX)M(XX)L.	10G 6A F/UTP screened MapIT MC double-ended, 4-pair stranded modular cord, colour matching jacket/boot, T568A/B, MapIT enabled, LS0H

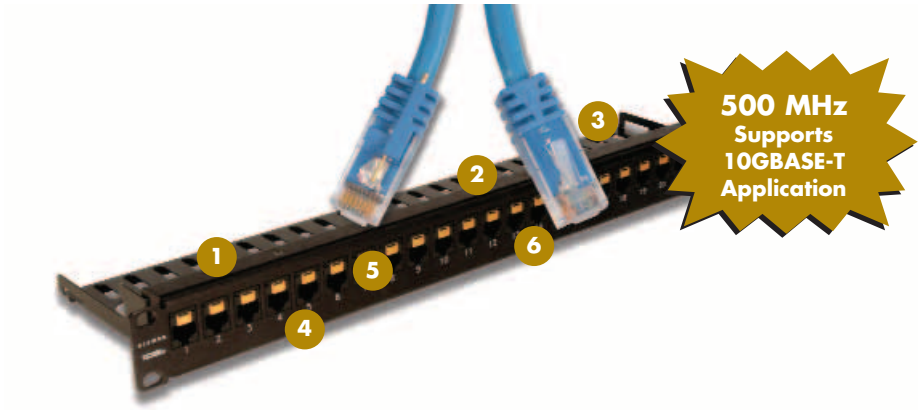
Use 1st (XX) to specify length: 01 = 1m, 02 = 2m, 03 = 3m, 05 = 5m
Use 2nd (XX) to specify jacket/boot colour: 04 = grey, 06 = blue

10G 6™ UTP MapIT

MapIT™ 10G ip™

For customers who demand the most from their network infrastructure, Siemon offers 10G 6 UTP MapIT. This powerful system handles 10 Gigabit Ethernet data speeds (10GBASE-T), making it ideal for data centres, storage networks and bandwidth intensive desktop applications.

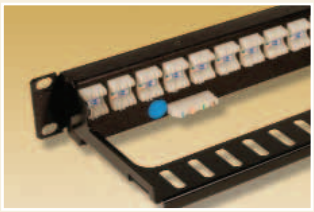
However, Siemon 10G 6 UTP MapIT offers much more than just 10Gb/s data throughput. With so much depending on an IT infrastructure these days, our customers demand a solution that can better secure and manage their entire network. That's why Siemon developed MapIT — to provide a whole new level of infrastructure management. The 10G 6 MapIT solution combines cabling system performance with innovative MapIT intelligent infrastructure management software.



1. **Robust Steel** — "Intellitab" sensors pads feature 50 microinches of gold over nickel for long-term reliability and resistance to corrosion
2. **Versatility** — Can be configured for either interconnect or cross-connect applications
3. **Panel Identification** — Designation labels provided
4. **Durability** — Black anodised finish and rolled steel edges provide a durable, aesthetic appearance
5. **Reduced Alien Crosstalk** — Optimised port spacing reduces alien crosstalk
6. **Bandwidth** — Usable bandwidth to 500 MHz

PYRAMID™ WIRE ENTRY SYSTEM
High performance S310 blocks for 10G 6 cable terminations.

EASY PUNCH-DOWN TERMINATIONS
Versatile S110 style punch-down for analyser I/O connections.



REAR CABLE MANAGEMENT
Includes rear cable manager to facilitate organised routing of cables to minimise alien crosstalk.

10G 6™ UTP MapIT PATCH PANELS

PATENTED

These panels have been engineered to provide usable bandwidth to 500 MHz. Enhancements include optimised port-to-port spacing (to minimise alien crosstalk) and patent-pending Phase-Delay circuit board tuning for increased margin and extended frequency performance. The end result is a panel and system that will support 10GBASE-T applications up to 100 metres on an unshielded copper cabling system.

These panels provide the superior performance and quality Siemon is known for plus new embedded MapIT sensor technology. Each port has a robust "intellitab" sensor pad, which can track connections between patch panels or LAN equipment. The rear of the panel features 110 style punch-down connections for termination of I/O cables. This allows analyser I/O cables to be cut to length in the field and terminated to the rear of the patch panel.

With over one million 10Gigabit ready copper installed worldwide, Siemon has the experience you can trust for your next mission-critical cabling project.

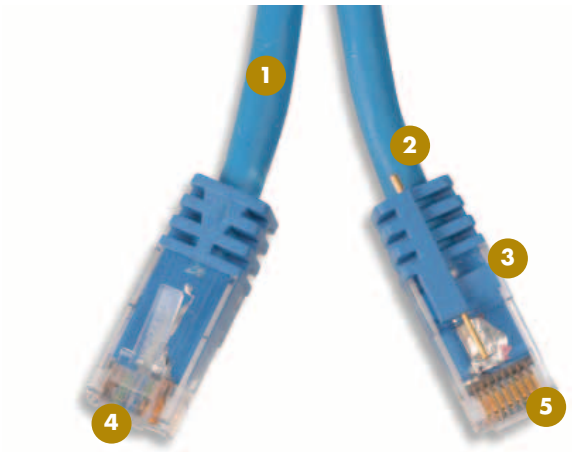
PART #	DESCRIPTION
M-10GX-24	24-port 10G 6 UTP MapIT patch panel, T568A/B, 1 U, MapIT enabled
M-10GX-48	48-port 10G 6 UTP MapIT patch panel, T568A/B, 2 U, MapIT enabled

Note: 1 U = 44.5mm

RELATED PRODUCTS 10G 6A UTP Cable pages 28-29

10G 6A™ UTP
MapIT MC® MODULAR CORDS

10G 6A UTP MapIT modular cords feature an innovative design that virtually eliminates alien crosstalk while still keeping the cable diameter to a minimum. These advanced cords also feature patented MapIT technology — a 9th wire and 50 microinches gold plated sensor pins contained in a robust over-molded boot. This embedded sensor technology enables tracking of connections between patch panel and LAN equipment ports.



1. **Superior Cord Performance** — Cordage and component meets category 6 TIA/EIA requirements extrapolated out to 500 MHz
2. **Sensor Pin** — is accessible at the rear of the boot for test and mapping purposes
3. **Innovative Strain Relief** — Over-molded boots provide plug to cable strain relief and retention of sensor pin
4. **Transmission Tested** — 100% transmission testing ensures component and channel performance
5. **Durability** — Sensor pins feature 50 microinches gold plating for long-term contact reliability and resistance to corrosion

HIGH PERFORMANCE PATCH CORDS
Patented metallic isolator shields pairs inside plug for optimum NEXT performance.

HIGH DENSITY
Offset pogo pin position optimised for stacked switch applications.

100% FACTORY TESTED
100% transmission testing ensures optimum field performance.

10G 6A UTP MapIT MC MODULAR CORDS

PATENTED

Siemon is the only manufacturer to offer an intelligent cabling solution that can support 10 Gigabit Ethernet applications over copper cabling. Siemon 10G 6A UTP MC modular cords are an important part of that solution.

PART #	DESCRIPTION
M-10GMC-(XX)-(XX)	10G 6A UTP MapIT MC double-ended, 4-pair UTP stranded modular cord, colour matching jacket/boot, T568A/B, MapIT enabled, CMG

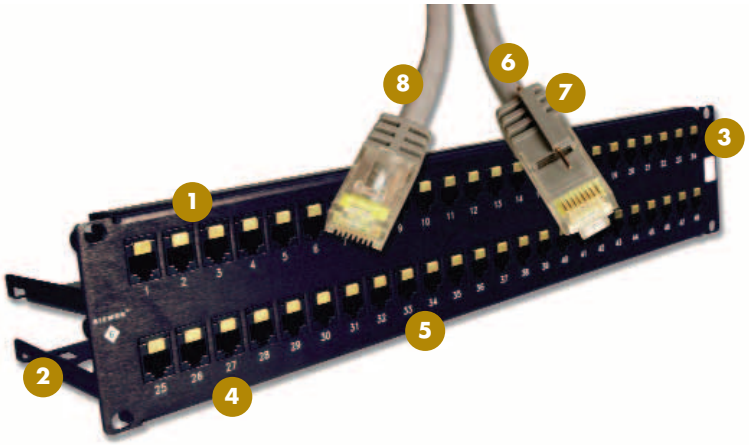
Use 1st (XX) to specify cord length: 03 = 0.9m, 05 = 1.5m, 07 = 2.1m, 10 = 3.1m, 15 = 4.6m, 20 = 6.1m

Use 2nd (XX) to specify jacket/boot colour: 04 = grey, 06 = blue

SYSTEM 6® UTP MapIT

MapIT™

Since launching System 6, the world's first category 6 solution in 1998, Siemon has continued to improve performance and functionality of the system. Siemon MapIT is the latest evolution this most popular cabling system. MapIT is an intelligent infrastructure cabling system which manages and protects your IT investment. The system features MapIT sensor technology embedded in System 6 HD® patch panels and System 6 MC® modular cords. When combined with MapIT software, this powerful combination of products provides a whole new dimension of network management capability.



1. **"Intellitab" Sensor Pads** — Robust brass sensor pads feature 50 microinches of gold over nickel for long-term reliability and resistance to corrosion
2. **Rear Cable Manager** — Included to properly guide cables to point of termination
3. **Panel Identification** — Designation labels provided
4. **Versatility** — Can be configured for either interconnect or cross-connect applications
5. **Exceeds Category 6** — Exceeds TIA/EIA and ISO/IEC component requirements for category 6
6. **Sensor Pin** — Gold-plated spring loaded sensor pins ensure reliable connection within sensor pads and are accessible at the rear of the boot for test and mapping purposes
7. **Innovative Strain Relief** — Over-molded boots provide excellent plug to cable strain relief and retention of sensor pins
8. **Superior Cord Performance** — T568A/B patch cords exceed category 6 TIA/EIA patch cord component requirements

SIMPLE I/O CONNECTIONS
Versatile 110 style punch-down for analyser I/O connections.

HIGH PERFORMANCE PATCH CORDS
Patented metallic isolator shields pairs inside plug for optimum NEXT performance.

HIGH DENSITY
Offset Pogo pin position optimized for stacked switch applications.

SYSTEM 6 UTP MapIT HD PATCH PANELS

PATENTED

System 6 UTP MapIT HD patch panels provide superior performance and quality with embedded MapIT sensor technology. Siemon MapIT panels feature robust "intellitab" sensor pads, constructed of brass with 50 microinches of gold over nickel plating on the contact surface. The entire panel, including sensor components, is guaranteed for 20 years when installed as part of a warranted System 6 installation. The rear of the panel features 110 style punch-down connections for termination of I/O and horizontal cables. This allows single-ended analyser I/O connection cables to be cut to length in the field, reducing part numbers and enabling a cleaner, neater installation.

PART #	DESCRIPTION
M-HD6-24	24-port System 6 UTP MapIT HD patch panel, T568A/B, 1 U, MapIT enabled
M-HD6-48	48-port System 6 UTP MapIT HD patch panel, T568A/B, 2 U, MapIT enabled

Panels include rear cable manager(s), designation labels, cable ties, and mounting hardware.

Note: 1 U = 44.5mm

RELATED PRODUCTS System 6 UTP Cable pages 42-43

SYSTEM 6 UTP MapIT MC MODULAR CORDS

PATENTED

System 6 MapIT MC modular cords retain all the critical elements of the System 6 modular cords: 100% transmission testing, superior NEXT performance and patented plug design. These advanced cords also feature patented MapIT technology: a 9th wire and 50 microinch gold-plated sensor pins contained in a robust over-moulded boot. This embedded sensor technology enables tracking of connections between patch panel and LAN equipment.

PART #	DESCRIPTION
M-MC6-(XX)-(XX)	System 6 UTP MapIT MC double-ended, 4-pair stranded modular cord, colour matching jacket/boot, T568A/B, MapIT enabled, CMG

Use 1st (XX) to specify cord length:
03 = 0.91m, 05 = 1.52m, 07 = 2.13m, 10 = 3.05m, 15 = 4.57m, 20 = 6.10m

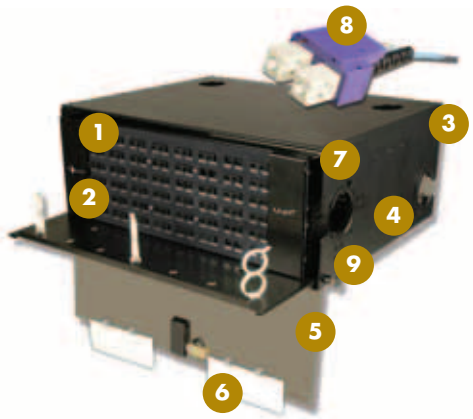
Use 2nd (XX) to specify jacket/boot colour: 04 = grey, 06 = blue

FIBRE SYSTEMS
MapIT

MapIT™

An enterprise's fibre backbone is the lifeblood of its business. A single bad connection can bring operations to a grinding halt. Siemon has created a fibre system with proactive management of critical fibre connections: Siemon MapIT, an intelligent cabling infrastructure which manages and protects your IT investment.

This powerful combination of high performance Siemon fibre hardware and MapIT software provides a whole new level of network management capability.



1. **Pre-loaded Panels** — Panels are pre-loaded with a choice of SC or LC adapters
2. **High Capacity** — 96 SC ports or 192 LC ports
3. **Reliable Interface** — S110 Blocks provided for connections to analyser I/O cables
4. **Professional Appearance** — Black anodised finish and rolled steel edges provide a durable, aesthetic appearance
5. **Quick-Release Hinges** — Spring loaded quick-release hinges enable easy removal of front and rear doors for complete access to fibre connections
6. **Enhanced Labelling** — Label virtually any port configuration with our hinged labels, which hang on the front door for optimum visibility. When the door is opened, labels flip down letting the label and corresponding ports be viewed together
7. **Rotating Grommets** — Protect fibre entering or exiting the enclosure
8. **Superior Performance** — Jumpers exceed TIA/EIA and ISO/IEC requirements
9. **"Universal" Adapters** — Support both singlemode and multimode systems

REMOVABLE TRAY
The cable management tray is completely removable from the front or rear of the enclosure, allowing the entire tray to be moved to a work table for more convenient loading of pigtails and splice trays.

SINGLE FINGER LATCH
Enclosures feature a single-finger latch on both front and rear doors. Included door locks prevent unauthorised access for enhanced security.

ROBUST SENSOR TECHNOLOGY
MapIT enclosures and jumpers feature gold-plated sensor pads/pins for long term resistance to galvanic corrosion and contact wear.

MapIT FIBRE ENCLOSURES

PATENTED

M-FCP-SC24-01 . . . . . 24-port MapIT FCP SC fibre enclosure, 1 U, black
M-FCP-LC48-01 . . . . . 48-port MapIT FCP LC fibre enclosure, 1 U, black
M-RIC-SC48-01 . . . . . 48-port MapIT RIC SC fibre enclosure, 2 U, black
M-RIC-LC96-01 . . . . . 96-port MapIT RIC LC fibre enclosure, 2 U, black
M-RIC-SC96-01 . . . . . 96-port MapIT RIC SC fibre enclosure, 4 U, black
M-RIC-LC192-01 . . . . . 192-port MapIT RIC LC fibre enclosure, 4 U, black

Note: 1 U = 44.5mm

RELATED PRODUCTS

Fibre Cable pages 78-85, Fibre Connectors pages 68-69

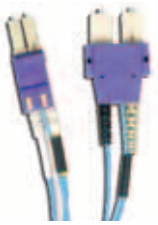
MapIT XGLO® FIBRE JUMPERS

10G ip

MapIT XGLO MULTIMODE DUPLEX JUMPERS
M-J2-SCSC5L-(XX) . . . . . SC-SC duplex jumper, MapIT XGLO 50/125 multimode fibre, aqua jacket, OFNR
M-J2-LCLC5L-(XX) . . . . . LC-LC duplex jumper, MapIT XGLO 50/125 multimode fibre, aqua jacket, OFNR
M-J2-LCSC5L-(XX) . . . . . LC-SC duplex jumper, MapIT XGLO 50/125 multimode fibre, aqua jacket, OFNR

MapIT XGLO SINGLEMODE DUPLEX JUMPERS
M-J2-SCUSCUL-(XX) . . . . . SC-SC duplex jumper, MapIT XGLO singlemode fibre, yellow jacket, OFNR
M-J2-LCULCUL-(XX) . . . . . LC-LC duplex jumper, MapIT XGLO singlemode fibre, yellow jacket, OFNR
M-J2-LCUSCUL-(XX) . . . . . LC-SC duplex jumper, MapIT XGLO singlemode fibre, yellow jacket, OFNR

Use (XX) to specify length: 01 = 1m, 03 = 3m, 05 = 5m



MapIT LIGHTSYSTEM® MULTIMODE DUPLEX FIBRE JUMPERS

PATENTED

M-J2-MTSC(X)-(XX) . . . . . MTRJ-SC duplex jumper, MapIT LightSystem multimode fibre, orange jacket, OFNR
M-J2-MTLC(X)-(XX) . . . . . MTRJ-LC duplex jumper, MapIT LightSystem multimode fibre, orange jacket, OFNR

Use (X) to specify fibre type: blank = 62.5/125µm fibre; 5 = 50/125µm fibre

Use (XX) to specify length: 01 = 1m, 03 = 3m, 05 = 5m

10G™ MAX® FACEPLATES

Siemon's 10G MAX faceplates are designed to provide the optimal outlet separation necessary to reduce alien crosstalk (ANEXT) between 10G 6A UTP MAX modules. They are also ideal for use with Siemon's screened MAX modules.

10GMX-FPS02-(XX). . . . . .
Single gang 10G faceplate
for two 10G 6A UTP or screened
MAX modules

10GMX-FPS04-(XX). . . . . .
Single gang 10G faceplate
for four 10G 6A UTP or screened
MAX modules

10GMX-FPD06-(XX) . . . . . .
Double gang 10G faceplate
for six 10G 6A UTP or screened
MAX modules

10GMX-FPD08-(XX) . . . . . .
Double gang 10G faceplate
for eight 10G 6A UTP or screened
MAX modules

Use (XX) to specify colour: 01 = black, 02 = white, 04 = grey,* 20 = ivory, 80 = light ivory*

Faceplates include designation labels, clear label covers, and #6-32x1 mounting screws.

Ⓑ *Add "B" to end of part number for bulk project pack of 100 faceplates.**

**Black and grey colour options and bulk project packs available for single gang faceplates only.*

10G MAX BRITISH FACEPLATES

Siemon's 10G MAX British faceplates are designed to provide the optimal outlet separation necessary to reduce alien crosstalk (ANEXT) between 10G 6A UTP MAX modules. They are also ideal for use with Siemon's screened MAX modules. MAX British faceplates are compatible with British standards (85mm x 85mm).

10GMX-BFP-02-(XX). . . . . .
Single gang 10G faceplate for two
10G 6A UTP or screened MAX
modules

10GMX-BFP-04-(XX). . . . . .
Single gang 10G faceplate for
four 10G 6A UTP or screened
MAX modules

Use (XX) to specify colour: 02 = white, 25 = bright white

Faceplates include designation labels, clear label covers, and M3.5x.06x25 mounting screws.

Ⓑ *Add "B" to end of part number for bulk project pack of 100 faceplates.*

10G MAX INTERNATIONAL FACEPLATES

Siemon's 10G MAX International faceplates are designed to provide the optimal outlet separation necessary to reduce alien crosstalk (ANEXT) between 10G 6A UTP MAX modules. They are also ideal for use with Siemon's screened MAX modules.

10GMX-HFP-02-(XX). . . . . .
Single gang 10G Australian/Italian
faceplate for two 10G 6A UTP or
screened MAX modules

10GMX-HFP-03-(XX). . . . . .
Single gang 10G Australian/Italian
faceplate for three 10G 6A UTP or
screened MAX modules

10GMX-HFP-04-(XX). . . . . .
Single gang 10G Australian/Italian
faceplate for four 10G 6A UTP or
screened MAX modules

Use (XX) to specify colour: 02 = white, 20 = ivory, 80 = light ivory

Faceplates include designation labels, clear label covers, and M3.5x.06x25 mounting screws.

Ⓑ *Add "B" to end of part number for bulk project pack of 100 faceplates.*

MAX® BRITISH DOUBLE LAYER FACEPLATES

Designed for markets that use British mounting standards (85mm x 85mm), these faceplates offer improved aesthetics via snap-on mounting screw covers. Faceplates include designation labels, clear label covers, and M3.5 x .06x25 mounting screws.

10GMX-BFPL-02-02 . . . . . .
Single gang 10G faceplate for two 10G 6A UTP or screened MAX modules or TERA outlets, white

MX-BFPL-01-02 . . . . . .
Single gang faceplate for one UTP or screened MAX module or TERA outlet, white

MX-BFPL-02-02 . . . . . .
Single gang faceplate for two UTP MAX modules or TERA outlets, white

MX-BFPL-03-02 . . . . . .
Single gang faceplate for three UTP MAX modules or TERA outlets, white

MX-BFPL-04-02. . . . . .
Single gang faceplate for four UTP MAX modules or TERA outlets, white

TERA®-MAX FACEPLATES AND ADAPTERS

Designed for markets where trunking systems are used to route cables, the 50mm TERA faceplate mounts TERA outlets on an angle to maintain proper bend radius. The faceplate accepts either one or two TERA or shielded MAX outlets. Screws, metal mounting plate, designation label and clear label cover included. The 45mm TERA-MAX adapters allow two TERA or screened MAX modules to be mounted into standard 45mm faceplate openings.

T50-(XX). . . . . .
50mm x 50mm , 2-port angled TERA-MAX faceplate

MX-45-01-(XX) . . . . . .
45mm x 45mm 1-port faceplate adapter

MX-45-02-(XX) . . . . . .
45mm x 45mm 2-port faceplate adapter

T45-82 . . . . . .
45mm x 45mm 1-port angled faceplate adapter, alpine white

Use (XX) to specify colour: 02 = white, 80 = light ivory, 82 = alpine white

MAX BRITISH FACEPLATES

MAX British faceplates are compatible with British standards (85mm x 85mm). The faceplate is designed to accept up to six angled or flat MAX modules.

MX-BFP-S-01-(XX) . . . . . .
Single gang faceplate for one UTP or screened MAX module or TERA outlet

MX-BFP-S-02-(XX). . . . . .
Single gang faceplate for two UTP MAX modules or TERA outlets

MX-BFP-S-03-(XX). . . . . .
Single gang faceplate for three UTP MAX modules or TERA outlets

MX-BFP-S-04-(XX). . . . . .
Single gang faceplate for four UTP MAX modules or TERA outlets

MX-BFP-S-06-(XX). . . . . .
Single gang faceplate for six UTP MAX modules or TERA outlets

Use (XX) to specify colour: 02 = white, 25 = bright white, 82 = alpine white

Faceplates include designation labels, clear label covers, and M3.5x.06x25 mounting screws

MAX INTERNATIONAL FACEPLATES AND ADAPTERS

MX-HFP-01-(XX). . . . . .
Single gang horizontal Australian/Italian faceplate for one UTP or screened MAX module or TERA outlet

MX-HFP-02-(XX). . . . . .
Single gang horizontal Australian/Italian faceplate for two UTP MAX modules or TERA outlets

MX-HFP-03-(XX). . . . . .
Single gang horizontal Australian/Italian faceplate for three UTP MAX modules or TERA outlets

MX-HFP-04-(XX). . . . . .
Single gang horizontal Australian/Italian faceplate for four UTP MAX modules or TERA outlets

MX-JIS-(X)-(XX)-D. . . . . .
Japanese faceplate adapter for one flat UTP MAX module.

Use (X) to specify print marking: B = blank, L = LAN

Use (XX) to specify colour: 02 = white, 70 = off-white

Use (XX) to specify colour: 02 = white, 20 = ivory, 80 = light ivory

Faceplates include designation labels, clear label covers, and M3.5x.06x25 mounting screws

MAX® MODULAR FACEPLATES

MX-FP-S-01-(XX) . . . . . .
Single gang faceplate
for one UTP or screened
MAX module or TERA® outlet

MX-FP-S-04-(XX) . . . . . .
Single gang faceplate
for four UTP MAX modules or
TERA outlets

MX-FP-D-06-(XX) . . . . . .
Double gang faceplate
for six UTP MAX modules or
TERA outlets

MX-FP-S-02-(XX) . . . . . .
Single gang faceplate
for two UTP MAX modules or
TERA outlets

MX-FP-S-06-(XX) . . . . . .
Single gang faceplate
for six UTP MAX modules or
TERA outlets

MX-FP-D-08-(XX) . . . . . .
Double gang faceplate
for eight UTP MAX modules
or TERA outlets

MX-FP-S-03-(XX) . . . . . .
Single gang faceplate
for three UTP MAX modules
or TERA outlets

MX-FP-D-12-(XX) . . . . . .
Double gang faceplate
for twelve UTP MAX modules
or TERA outlets

Use (XX) to specify colour: 01 = black, 02 = white, 04 = grey,* 20 = ivory, 80 = light ivory*

Faceplates include designation labels, clear label covers, and #6-32x1 mounting screws.

Ⓑ *Add "B" to end of part number for bulk project pack of 100 faceplates.**

**Black and grey colour options and bulk project packs available for single gang faceplates only.*

STAINLESS STEEL MAX FACEPLATES

Single and double gang stainless steel MAX faceplates for use with flat and angled UTP MAX modules or TERA outlets. Brushed finish on plates mask minor scratches and scuffs that may occur during day-to-day usage.

PART #	DESCRIPTION
MX-FP-S-(XX)-SS-L	Single gang stainless steel faceplate with labels and label holder

Use (XX) to specify number of ports:
01 = 1-port, 02 = 2-port, 03 = 3-port, 04 = 4-port, 06 = 6-port

Faceplates include mounting #6-32x1 screws.

PART #	DESCRIPTION
MX-FP-D-(XX)-SS-L	Double gang stainless steel faceplate with labels and label holder

Use (XX) to specify number of ports:
06 = 6-port, 08 = 8-port, 12 = 12-port

Faceplates include mounting screws.

MAX OUTLET BLANKS AND DOORS

PATENTED

Blank inserts for unused ports and future growth and doors to protect outlets from outside contaminants.

MX-BL-(XX). . . . . .
Blank module,
bag of 10

MX-FD-(XX). . . . . .
Door assembly for
flat 6- or 8-position
MAX modules, bag of 20

MX-AD-(XX) . . . . . .
Door assembly for
angled 6- or 8-position
MAX modules, bag of 20

Use (XX) to specify colour: 00 = clear (MX-AD-XX only), 01 = black, 02 = white, 04 = grey, 20 = ivory, 25 = bright white, 80 = light ivory*

**Angled doors not available in bright white. Recommend using clear or white if required.*

TERA®-MAX® ADAPTERS FOR CT FACEPLATES

Designed for use in standard CT faceplates or adapters. Angled bezel orientation reduces mounting depth for TERA and flat MAX outlets and facilitates gravity feed installation design.

CTE-MXA-01-(XX) .....
Angled CT adapter for one UTP or screened MAX module or TERA outlet

CTE-MXA-02-(XX) .....
Angled CT adapter for two UTP MAX modules or TERA outlets

Use (XX) to specify colour: 02 = white, 20 = ivory

CT® FACEPLATES

PATENTED

CT2-FP-(XX) .....
Single gang plastic faceplate for one CT adapter

CT4-FP-(XX) .....
Single gang plastic faceplate for two CT adapters

CT8-FP-(XX) .....
Double gang plastic faceplate for four CT adapters

CT2-HFPA-(XX)*.....
Single gang plastic horizontal faceplate for one CT adapter, with colour matching screw caps (#6-32x1 screws)

Use (XX) to specify colour: 01 = black, 02 = white, 04 = grey, 20 = ivory, 80 = light ivory

Faceplates include designation label(s), label cover(s) and #6-32x1 screws.

Ⓑ *Add "B" to end of part number for bulk project pack, (includes 100 CT2 or CT4 faceplates or 50 CT8 faceplates, screws, designation labels, and label covers).*

**Not available in bulk project pack.*

RELATED PRODUCTS CT Adapter page 101 (above)

STAINLESS STEEL CT FACEPLATES

PATENTED

CT4-FP-SS-L.....
Single gang stainless steel faceplate for two CT adapters, with labels and label holders

CT8-FP-SS-L.....
Double gang stainless steel faceplate for four CT adapters, with labels and label holders

CT4-FP-SS.....
Single gang stainless steel faceplate for two CT adapters

CT8-FP-SS.....
Double gang stainless steel faceplate for four CT adapters

CT12-FP-SS.....
Triple gang stainless steel faceplate for six CT adapters

Faceplates include mounting #6-32x1 screws.

RELATED PRODUCTS CT Adapter page 101 (above)

BRITISH CT® FACEPLATES

The CT series British faceplates are compatible with British standards (85mm x 85mm).

CTE2-FP-(XX) . . . . . .
Single gang
British style faceplate
for one CT adapter

CTE4-FP22-(XX) . . . . . .
Single gang
British style faceplate
for two CT adapters

CTE4-FP-(XX) . . . . . .
Double gang
British style faceplate
for two CT adapters

Use (XX) to specify colour: 02 = white, 82 = alpine white

Faceplates include designation labels, clear label cover and M3.5x.06x25 mounting screws

RELATED PRODUCTS CT Adapter page 101

CT INTERNATIONAL FACEPLATES

CT-FP-DKIT-(XX) . . . . . .
Single gang German faceplate
kit for one CT adapter.
Includes faceplate, mounting ring
and stand-off frame

CT2-HFP-(XX). . . . . .
Horizontal Australian/Italian
faceplate for one CT adapter

Use (XX) to specify colour: 02 = white, 80 = light ivory

RELATED PRODUCTS CT Adapter page 101

CT INTERNATIONAL ADAPTERS

CTE-A-(XX) . . . . . .
50mm x 50mm adapter for
one CT adapter
Use (XX) to specify colour:
02 = white,
82 = alpine white

CTE-45-(XX). . . . . .
45mm x 45mm adapter for
one CT adapter
Use (XX) to specify colour:
02 = white,
82 = alpine white

CT-RFP-02 . . . . . .
White 45mm x 50mm
adapter for
one CT adapter, white

RELATED PRODUCTS CT Adapter page 101

ACCESSORIES

PART #	DESCRIPTION
CT-FP-LBL-104*	10 sheets of labels for MAX® or CT faceplates that will fit any standard 8.5 x 11 printer, 104 labels per sheet
MX-FP-CVR	Bag of 100 clear label covers for MAX faceplates
CT-FP-CVR	Bag of 100 clear label covers for CT faceplates

**Visit our web site or contact our Technical Support Department for labelling software.*

TAMPER-PROOF MAX® FACEPLATE

Siemon's tamper-proof MAX faceplates provide a secure, low profile solution for mounting our complete line of MAX modules. The design features a one-piece base which accepts up to six angled UTP MAX modules and is secured by a solid cover and a choice of tamper-proof star or standard slotted head screw. The base mounts to any single gang outlet.

PART #	DESCRIPTION
MX-TFP-S-06-(XX)	Single gang, tamper-proof faceplate for six angled UTP MAX modules

Use (XX) to specify colour: 01 = black, 02 = white, 04 = grey, 20 = ivory, 25 = bright white, 80 = light ivory
Faceplate includes securing screws, colour-matching screw cover and #6-32x1 mounting screws

BRITISH FACEPLATE SURFACE MOUNT BOXES

The CTE2 and CTE4 boxes offer surface mount capabilities for the British MAX and CT® series faceplates featured previously.

CTE2-BOX-02 .....
Single gang surface mount box for British MAX or CT faceplates, white

CTE4-BOX-02 .....
Double gang surface mount box for British MAX or CT faceplates, white

FACEPLATE SURFACE MOUNT BOXES

PATENTED

These boxes offer a surface mounting option for MAX or CT single and double gang faceplates. These boxes are perfect for installations where the work area outlet cannot be recessed into a wall or floor box. The boxes are also compatible with our stand-off rings if extra depth is required behind the faceplate. Mounting hardware not included.

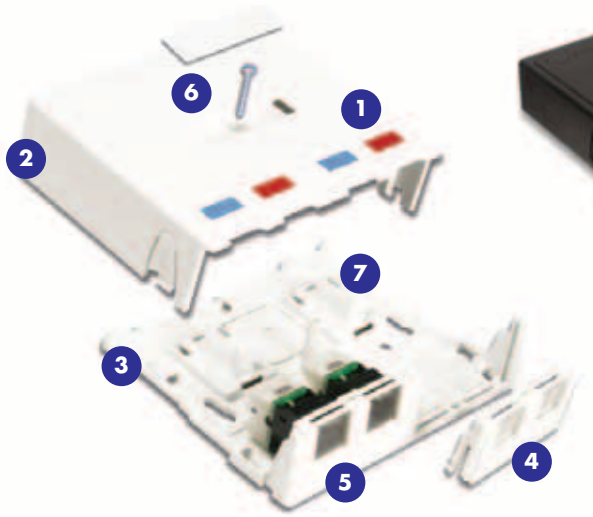
CT4-BOX-(XX) .....
Surface mount box for one single gang MAX or CT faceplate
height: 119.3mm,
width: 74.8mm,
depth: 40.6mm

CT8-BOX-(XX) .....
Surface mount box for one double gang MAX or CT faceplate
height: 119.3mm,
width: 120.8mm,
depth: 40.6mm

Use (XX) to specify colour: 01 = black, 02 = white, 04 = grey, 20 = ivory, 80 = light ivory

MX-SM® SURFACE MOUNT BOXES

Surface mount boxes feature a sleek compact, easy-to-install design. UTP, Screened, fibre, video, and coax MAX® modules or TERA® outlets can be quickly installed into the base. Multiple cable management features provide a high performance and well organised installation.



1. **Snap-on Cover with Designation Areas** — For colour-coded icons/tabs and write-on labels
2. **Cable/Raceway Entry** — Breakouts on three sides and bottom
3. **Cable Tie Anchor Points** — Facilitates strain relief for cable
4. **MAX Bezels Included** — Allows flat MAX modules to be secured in place
5. **Optional Spring-loaded Shutter Doors** — Shutter doors offer added protection from dust and other contaminants
6. **Label Cover** — Conceals screw for added security if desired
7. **Cable Management** — Built-in cable management features ensure proper bend radius for copper or fibre

PROPER BEND RADIUS
Depth of box is optimised to maintain proper bend radius of cables.

QUICK COVER RELEASE
Left and right thumb release allow the cover to be easily removed.

MULTIMEDIA CAPABILITY
Compatible with all media types including UTP, Screened, coax, fibre and TERA.

MX-SM SURFACE MOUNT BOXES

PATENTED **NEW** UL

Field-assembled surface mount boxes with MAX bezels. Accepts flat MAX modules or TERA outlets ordered separately.

MX-SM1-(XX) .....
1-port box with cover, base, one single port MAX bezel, cable tie, adhesive tape and mounting screws

MX-SM2-(XX) .....
2-port box with cover, base, one (2-port) MAX bezel, cable ties, adhesive tape, mounting screws, designation labels and label cover

MX-SM4-(XX) .....
4-port box with cover, base, two (2-port) MAX bezels, cable ties, adhesive tape, securing screws, designation labels and label covers

MX-SM6-(XX) .....
6-port box with cover, base, three (2-port) MAX bezels, cable ties, adhesive tape, securing screws, designation labels, and label cover

Use (XX) to specify colour: 01 = black, 02 = white, 20 = ivory, 80 = light ivory.

Add "-D" for optional spring shutter doors.

Add "-M" for optional magnets.

Add "-MD" for optional doors and magnets.

MAX bezels are compatible with all single port, flat MAX modules see pages 3 – 5.
For LC, SC duplex fiber adapters and TERA options, see MX-SM multimedia bezels, next page.

MX-SM® MULTIMEDIA BEZELS AND COMPONENTS

MX-SMB-MM-(XX) .....
2-port Multimedia bezel,
bag of 10

MX-SMB-SC-(XX).....
2-port bezel with duplex
multimode/singlemode
SC adapter

MX-SM-BLNK-(XX) .....
1-port blank insert for an unused port.
May be used with MAX or multimedia
bezels, bag of 10

Note: Multimedia bezels accommodate TERA® outlets and flat MAX duplex LC adapters.
They are also compatible with all other single port flat MAX modules, but require the use of icons to secure modules into bezel.
Use (XX) to specify colour: 01 = black, 02 = white, 20 = ivory, 80 = light ivory.

MAX® MUTOA

PATENTED

This low-profile multi-user/multimedia surface mount box is unsurpassed in features and flexibility, and is ideal for use as a multi-user telecommunications outlet assembly (MUTOA) as specified in ANSI/TIA/EIA-568-B.1. It provides storage area for up to 12m of buffered optical fibre cable using our optional fibre management tray and at least 2m of 4-pair twisted pair cable in the base, while maintaining a minimum bend radius of 30mm.

PART #	DESCRIPTION
MX-MMO-(XX)	Multi-user/telecommunications outlet box for 18 UTP MAX modules or TERA outlets. Includes designation label, cable ties, mounting screws, securing screws and adhesive tape *height: 200.2mm,* *width: 200.2mm,* *depth: 57.0mm*

Use (XX) to specify colour: 02 = white, 20 = ivory, 80 = light ivory

ACCESSORIES

PART #	DESCRIPTION
CT-MMO-MAG	Set of 3 mounting magnets for MAX MUTOA
FMT	Clear fibre management tray for MAX MUTOA

RS3 CABLE MANAGEMENT RACK SYSTEM

Siemon's RS3 series cable management rack system provides high capacity, integrated cable management for routing of both horizontal/backbone cabling and patch cords. Vertical channels with sectional hinged cable manager covers conceal and route patch cables for a clean, professional installation.

PART #	DESCRIPTION
RS3-07	2.1m x 0.48m aluminium enhanced cable management rack system, 45 U. Includes rack assembly hardware, vertical cable management channels with hinged covers, and ground lug.
	height: 2.1m, *width: 685.0mm,* *depth: 457.2mm*

Add "-S" for steel.

Note: Aluminium racks are intended for use with connecting hardware and cable managers only. For mounting of active equipment, steel racks are recommended.

Note: 1 U = 44.5mm

RS3 SERIES HORIZONTAL CABLE MANAGERS

These horizontal cable managers are designed for use with Siemon's RS3 series racks and use the same hinged cover design as the vertical managers. The covers snap easily over cable managers and provide a concealed routing patch into the vertical cable management of the RS3 providing a clean patching environment.

RS3-RWM-2.....
Single-sided 19 in. cable manager, 2 U

height: 88.9mm,
width: 0.48m,
depth: 101.6mm

RS3-RWM-2

RS3-RWM-2DS .....
Double-sided 19 in. cable manager, 2 U

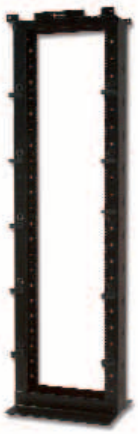
height: 88.9mm,
width: 0.48m,
depth: 203.2mm

RS3-RWM-2DS

Note: 1 U = 44.5mm

RS RACK SYSTEM

Siemon's RS series cable management rack system combines a 2.1 metre x 19 inch black rack with cable management accessories to provide a complete cable management solution. Ideal for all size installations, the rack features fully usable 45 U capacity.



PART #	DESCRIPTION
RS-07	2.1m x 0.48m aluminium cable management rack system, 45 U. Includes rack assembly hardware, 10 high-capacity cable managers, 10 hook and loop cable managers, grommets, and ground lug.
	height: 2.1m, *width: 609.6mm,* *depth: 457.2mm*

Add "-S" for steel

Note: Aluminium racks are intended for use with connecting hardware and cable managers only. For mounting of active equipment, steel racks are recommended.

RS SERIES HORIZONTAL CABLE MANAGERS

Siemon's RS series cable managers are designed for use with Siemon's RS-07 racks in conjunction with Siemon's vertical patching channel. The hinged cover extends across the vertical channels of the RS-07 to fully conceal patch cords into the VPC.

RS-RWM-2.....
Single-sided 19 in. cable manager, 2 U

height: 88.9mm,
width: 0.48m,
depth: 101.6mm

RS-RWM-2

RS-RWM-2DS .....
Double-sided 19 in. cable manager, 2 U

height: 88.9mm,
width: 0.48m,
depth: 203.2mm

RS-RWM-2DS

VPC VERTICAL PATCHING CHANNEL

Siemon's Vertical Patching Channel (VPC) sets a new standard for cable management systems by improving appearance, accessibility and cable routing on both the front and rear of the rack. Designed as a stand-alone manager to be mounted between adjacent racks the VPC features a full length, hinged door on the front to conceal patch cord routing. The rear manager is open for ready routing of large bundles of horizontal/backbone cabling. With its easy access design, high capacity and professional appearance, the VPC is ideal for both installers and end users alike.

PART #	DESCRIPTION
VPC-6	2.1m x 152mm vertical patching channel. Includes front cover, 6 rear channel retainers and mounting hardware.

height: 2.1m,
width: 152.4mm,
depth: 300.8m

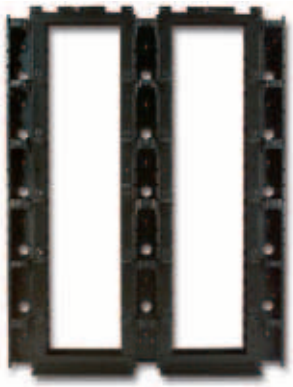
RS-07 shown with two VPC-6's

Note: 1 U = 44.5mm

VERTICAL CABLE MANAGEMENT CHANNELS

PATENTED

Siemon's single-sided vertical cable management channels provide an economic solution for managing large cable bundles between adjacent racks. They feature an open design with six easily configured dual-hinge managers (additional managers available separately) that enable customised management of patch cords. Mounting holes within the channel accommodate Siemon's quarter-turn cable managers (p/n: RS-CH) and quarter-turn hook and loop cable managers (p/n: RS-VCM) for further customisation of cable routing. The channels are available in both 76mm and 152mm depths for use with standard 76mm racks or 152mm deep cable management racks such as Siemon's RS-07. Alternately, the 76mm deep channels can be stacked back to back with the deeper cable management racks to optimise management of cables on both sides of the channel.



Two RS-07's shown with three RS-CNL's

RS-CNL
2.1m x 152mm vertical cable management channel for mounting between 152mm deep racks.
Includes mounting hardware.

RS-CNL3
2.1m x 76mm vertical cable management channel for mounting between 76mm deep racks.
Includes mounting hardware.

EXTENDED DEPTH RS RACK SYSTEM

Siemon has developed a rack for managing extra large volumes of horizontal cables. The extended depth rack features vertical channels which are 0.37m deep. These channels include multiple mounting holes allowing the user to configure Siemon's twist-lock hook and loop cable managers for properly managing large individual bundles of cables. The footers have also been designed to maintain a 0.61m footprint, common to raised floor tiles.

PART #	DESCRIPTION
RS-07E	2.1m x 0.48m aluminium extra-deep (0.37m) cable management rack system. Includes rack assembly hardware, 10 high-capacity cable managers, 10 hook and loop managers, grommets and ground lug.

height: 2.1m,
width: 609.6mm,
depth: 609.6mm

RACK ACCESSORIES

Siemon offers a full range of accessories to allow further customisation of Siemon racking systems.

RS-CH .....
Box of 10 quarter-turn cable managers

RS-VCM.....
Box of 10 quarter-turn hook and loop cable managers. Includes roll of 10 457.2mm hook and loop black cable managers and 10 quarter-turn mounting clips.

RS-CNL-MGR .....
Box of 10 channel retainers for use with VPC, RS-CNL and RS-CNL3

SCREW-1224.....
#12-24 Slotted head screws with washers, black, bag of 100

RS-TRAY.....
Rack top cable tray. Includes roll of 9 black 457.2mm hook and loop cable managers and 9 quarter-turn mounting clips.

Note: Not compatible with Siemon's extended depth RS series racks.

RS-TRAY mounted on top of RS-07

PATENTED

RS-P04.....
1.2m power strip for rear of rack, ten 15A outlets, resettable fuse. Includes mounting hardware.

S110®/S210® HORIZONTAL CABLE MANAGERS

The S110/S210 cable managers provide an economical, superior covered cable management solution in a compact space. Their 1 U and 2 U size and large capacity provide excellent cable management for 19 inch rack mount installations.

PART #	DESCRIPTION	U
S110-RWM-01	S110/S210 horizontal cable manager with covers, black	1
S110-RWM-02	S110/S210 horizontal cable manager with covers, white	1
S110-RWM2-01	S110/S210 horizontal cable manager with covers, black	2
S110-RWM2-02	S110/S210 horizontal cable manager with covers, white	2

S110-RWM

S110-RWM2

Note: 1 U = 44.5mm

WM SERIES HORIZONTAL CABLE MANAGERS

The WM series cable managers provide increased strength and do not interfere with panels mounted above or below. They are a popular and economical solution for providing a clean and simple means of organising small-to-large bundles of cables and patch cords.

PART #	DESCRIPTION	U
WM-143-5	Horizontal cable manager with five S143 hangers	1
WM-144-5	Horizontal cable manager with five S144 hangers	2
WM-145-5	Horizontal cable manager with five S145 hangers	2

Note: 1 U = 44.5mm

WM-143-5

WM-144-5

WM-145-5

CABLE HANGERS

The cable hanger design features structural integrity and sleek appearance. These cable hangers are ideal for routing small to very large quantities of cable. The durable plastic design ensures reliability for any application.

PART #	HEIGHT	WIDTH	DEPTH
S143*	44mm	38mm	89mm
S144*	87mm	57mm	74mm
S145*	87mm	57mm	125mm
S146	151mm	63mm	130mm
S147	254mm	63mm	130mm

**Add "-A" for optional adhesive backing.*

S143

S146

S144

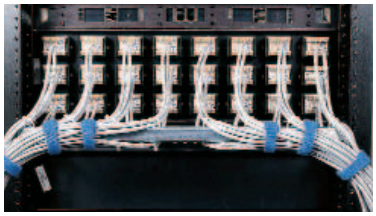
S147

S145

REAR CABLE MANAGER

Siemon's rear cable manager can be mounted to the back side of a double-sided 19 inch rack, or can be mounted between a patch panel and the front face of the rack, using the same screws that hold the patch panel to the rack and the hex nuts provided. It provides strain relief anchor points and organisation of horizontal cables being routed to the back of a patch panel.

PART #	DESCRIPTION
WM-BK	Rear cable manager with mounting screws and hex nuts



REUSABLE HOOK AND LOOP CABLE MANAGERS

These cable managers are simple, yet extremely effective when used to bundle cables. To accommodate different sized bundles, they are available in 152mm, 305mm, or 457mm lengths. They can be easily loosened and removed to service cable and then tightened and reinstalled when the cables are rebundled. The handy dispenser rolls/spools are neat, convenient and quick. Adjustable tension prevents "over-cinched" conditions. A mounting hole in each hook and loop manager enables the manager to be mounted to a wall or rack.

PART #	DESCRIPTION
VCM-25-(XX)-(XX)	Roll of 25 cable managers
VCM-250-(XX)-(XX)	Spool of 250 cable managers

Use 1st (XX) to specify length:
06 = 152mm, holds 51mm diameter cable bundle,
12 = 305mm, holds 102mm diameter cable bundle,

Use 2nd (XX) to specify colour: 01 = black, 02 = white, 03 = red, 04 = grey, 05 = yellow, 06 = blue

Wrap-around cable managers offer a simplified approach to cable management . . . secure it to a single cable and then wrap it around the entire bundle.

Hook and Loop cable managers have a large head for added strength and a mounting hole is included for securing to a wall or rack.

STM-8 AND STM-8-S

PATENTED

STM-8 . . . . . .
UTP (Unshielded, Twisted-Pair) cable tester.
Includes carrying case, remote "A", two universal
plug-ended modular cords, wiring guide,
9V alkaline battery, instructions, and warranty card.

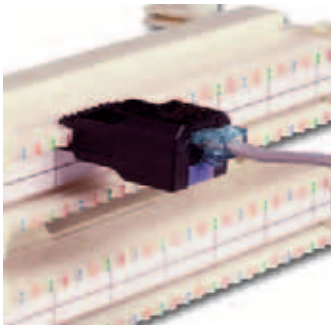
STM-8-S . . . . . .
Screened twisted-pair cable tester.
Includes carrying case, active remote,
two screened modular cords, wiring guide,
9V alkaline battery, instructions,
and warranty card.

S110® TEST ADAPTERS

PATENTED 5e compatible

Siemon's 4-pair S110 test adapters provide a convenient way to test 110-type connecting blocks. These adapters plug directly onto any 110-type connecting block and provide a modular jack for connection to test equipment or patch cords. It is the only 110 style test adapter that can be attached to both terminated and unterminated 110-type connecting blocks. The 4-pair adapters are end-stackable, and are polarised to prevent incorrect insertion.

The test adapters have an area for a coloured icon (a blue and red icon are included) for additional identification. They are available in T568A and T568B wiring configurations and are category 5e compatible for high-performance link testing.



PART #	DESCRIPTION
TAP-110-T4	Category 5e compatible, 4-pair, 8-position, test adapter, T568A
TAP-110-A4	Category 5e compatible, 4-pair, 8-position, test adapter, T568B

4-pair

TECHNICAL TIP!
The adapters utilise a unique, spring-loaded contact design to ensure a reliable connection without disturbing existing cross-connect terminations. This also extends the life-cycle of the test adapter.

TESTAR

PATENTED 5e compatible

The TESTAR creates easy test access to 66 quick clips. It plugs directly onto the S66™ block, establishing a positive connection and providing a 4-pair modular jack for plugging in test equipment. The body is moulded in blue plastic and has moulded-in finger grips for easy handling.

PART #	DESCRIPTION
TESTAR-8T-C5	Category 5e compatible, 4-pair, 8-position, TESTAR, T568A
TESTAR-8A-C5	Category 5e compatible, 4-pair, 8-position, TESTAR, T568B

S110®/S210® MULTI-PAIR TERMINATION TOOLS AND S814 IMPACT TOOL

PATENTED

The S814 impact tool terminates wires on 66 and 110 clips. The tool is spring-loaded and fully adjustable; a helpful feature when working with wires of varying thicknesses. The bayonet-style mount allows the blades to be changed quickly and easily, and a compartment in the handle stores an extra blade.

MULTI-PAIR TERMINATION TOOL

PART #	DESCRIPTION
S788J4-210	4-pair S210 termination tool
S788J4	4-pair S110 termination tool
S788J5	5-pair S110 termination tool
S788J4B-210	4-pair S210 replacement cutting blade and insertion assembly
S788J4B	4-pair S110 replacement cutting blade and insertion assembly
S788J5B	5-pair S110 replacement cutting blade and insertion assembly
S788J4H-210	4-pair S210 replacement head for impact tool, including housing, cutting blade and insertion assembly
S788J4H	4-pair S110 replacement head for impact tool, including housing, cutting blade and insertion assembly
S788J5H	5-pair S110 replacement head for impact tool, including housing, cutting blade and insertion assembly

S788J4-210

S788J4B-210

S788J4H-210

S814 IMPACT TOOL

PART #	DESCRIPTION
S814	Tool body only
S814-66	Tool body with 66 termination blade
S814-110	Tool body with 110 termination blade
S81401-66	66 termination blade
S81401-110-88	110 termination blade

S814 Impact Tool

TECHNICAL TIP!

Termination blades for Siemon punch-down tools are reversible — one end terminates and cuts off the excess wire, the other end terminates without cutting.

PALM GUARD

PATENTED

The Siemon palm guard has been ergonomically designed to provide a safe and convenient means of terminating our UTP and screened flat or angled CT® couplers and MAX® modules. The palm guard absorbs the impact of termination while securing the connector to prevent movement. Included are an adjustable elastic strap and a removable insert, which can be used to hold MAX modules while terminating on a flat surfaces.

PART #	DESCRIPTION
PG	Palm guard with MAX insert

CI-KIT AND CI-KIT2

The CI-KIT provides all the tools that a telecommunications technician needs for day-to-day activities. Included in the kit is an S814 impact tool with 66 and 110 termination blades, a probe pic, electrician's scissors, mini flathead screwdriver, and a CPT-WEB cable preparation tool. Siemon's CI-KIT2 includes all the components of the standard CI-KIT, with the addition of our popular AllPrep™ cable preparation tool in place of the CPT-WEB tool. Also, a "D-Ring" has been added to carry additional tools. These tools are stored in a handy, lightweight, clip-on pouch, which allows the installer to cut, strip and terminate cabling without having to carry separate tools or larger tool kits.

PART #	DESCRIPTION
CI-KIT	Clip-on tool kit with S814 impact tool (with 66 and 110 termination blades), probe pic, electrician's scissors, mini flathead screwdriver, and CPT-WEB tool
CI-POUCH	Clip-on CI-KIT tool pouch only
CI-KIT2	Clip-on tool kit with S814 impact tool, (with 66 and 110 termination blades), probe pic, electrician's scissors, mini flathead screwdriver, and AllPrep cable preparation tool
CI-POUCH2	Clip-on CI-KIT2 tool pouch only

CI-KIT

CI-KIT2 *"D-Ring"*

ALLPREP™ CABLE PREPARATION TOOL

PATENTED

The AllPrep cable preparation tool provides a robust and reliable method of preparing both twisted-pair and coaxial cable for termination. The tool features two colour-coded dies that are interchangeable for each media type. The coaxial die strips RG59 and RG6 coaxial cable and the twisted-pair die strips a wide variety of UTP, screened and fibre cables.

PART #	DESCRIPTION
CPT-6ATP	AllPrep cable preparation tool for 6A UTP Twisted pair cables
CPT-RGTP	AllPrep cable preparation tool for coax/twisted pair cables
CPT-T	TERA® preparation tool. Includes CPT-DIE-T4 and TERA cable preparation template.
CPT-DIE-6A	Replacement 6A die (green)
CPT-DIE-T4	Replacement TERA cable die (red)
CPT-DIE-TP	Replacement twisted-pair die (yellow)
CPT-DIE-RG	Replacement coax die (black)

LIGHTSPEED® ST, SC FIBRE TERMINATION KIT

Achieve faster fibre terminations and higher performance with Siemon's *LightSpeed* Termination Kit. The Siemon fibre termination kit contains all the tools required for termination of multimode or singlemode ST or SC connectors — packaged in a rugged canvas carrying case. Use the optional LC Upgrade Kit *(see below)* for LC connector terminations. Select tools and other termination products supplied with the kit can be ordered separately. All consumables must be ordered separately as noted below.*

PART #	DESCRIPTION
FTERM-L2	*LightSpeed* Fibre Termination Kit for ST and SC multimode and singlemode connectors*

**All consumables including primer, adhesive and polishing films are contained in the consumables kit and must be ordered separately.*

LIGHTSPEED® FIBRE CONSUMABLES KIT

The termination kit includes Siemon's *LightSpeed* adhesive system, which features a 30-second cure time. The adhesive is tinted green to provide an easy visual indication during the termination process and has an extended one-year shelf life.

PART #	DESCRIPTION
FT-CKIT-L2*	Consumables kit for use with fibre termination kit (FTERM-L2). Includes enough consumables to perform a minimum of 200 multimode or singlemode terminations.
FT-PRBOT-L*	Primer bottle (3.5mL)
FT-ADH-L*	Adhesive Syringe (5cc)
FT-ALPAD	Alcohol pads
FT-WIPES	Dry lint-free wipes
FT-SYRMTIP	Syringe tip needles w/covers
FT-PF12	12µm air polish film, grey
FT-PF3	3µm polish film, pink
FT-PF1	1µm polish film, purple
FT-FF	Finishing film, white
FT-PF6**	6µm recovery film, bronze

**This product contains material with a time and temperature sensitive shelf life. Store between 4.4 – 38.5°C and verify expiration date marked on product prior to use (one year from date of purchase from Siemon.)*

***This recovery film is optional and not included with the consumables kit.*

LC FIBRE TERMINATION UPGRADE KIT

The Siemon LC upgrade kit is used in conjunction with the *LightSpeed* Termination Kit (FTERM-L2) and has all the accessories to terminate LC connectors using Siemon's exclusive *LightSpeed* adhesive. The kit includes an LC microscope head (that attaches to the microscope included with the FTERM-L2), an LC polishing puck and a micro-torch* (to shrink the colour-coded LC crimp sleeve tubing).

PART #	DESCRIPTION
FTERM-LC	LC Fibre Termination Upgrade Kit (used in conjunction with FTERM-L2)

Note: Contents of FTERM-LC are also available individually. Contact our Customer Service Department for more information.

**Butane fuel not included.*

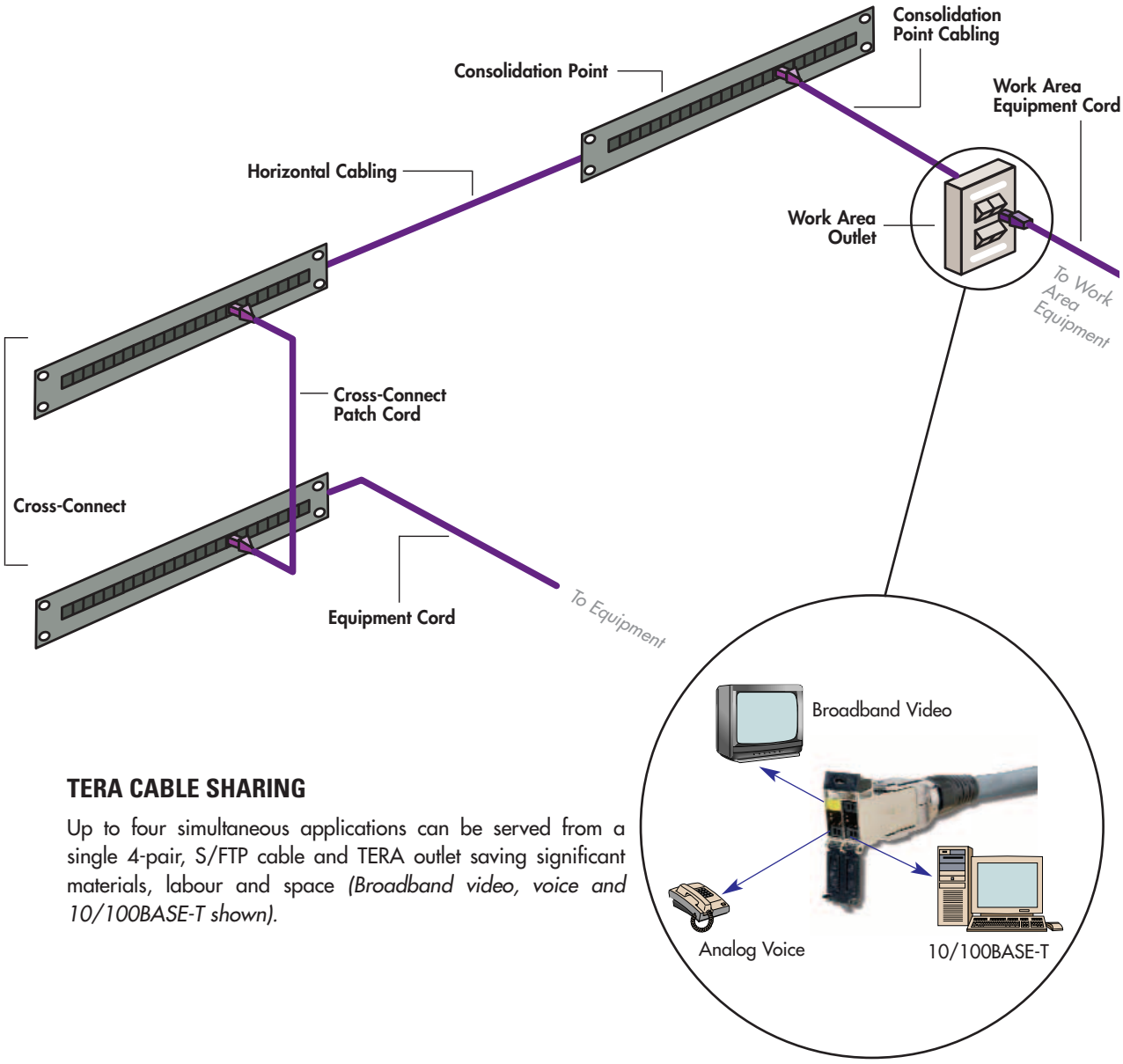
MT-RJ FIBRE TERMINATION KIT

The Siemon MT-RJ termination kit makes field termination of MT-RJ connectors quick and easy. MT-RJ duplex connectors can be terminated in less than two minutes, which equates to less than one minute per fibre. The kit employs proven no-epoxy/no-polish termination technology. All tools required to terminate MT-RJ connectors are included in a durable canvas carrying case.

PART #	DESCRIPTION
FTERM-MT	MT-RJ Fibre Termination Kit
FT-VFL	Dual source Visual Fault Locator

Note: Contents of FTERM-MT are also available individually. Contact our Customer Service Department for more information.

TYPICAL TERA® CABLING DIAGRAM

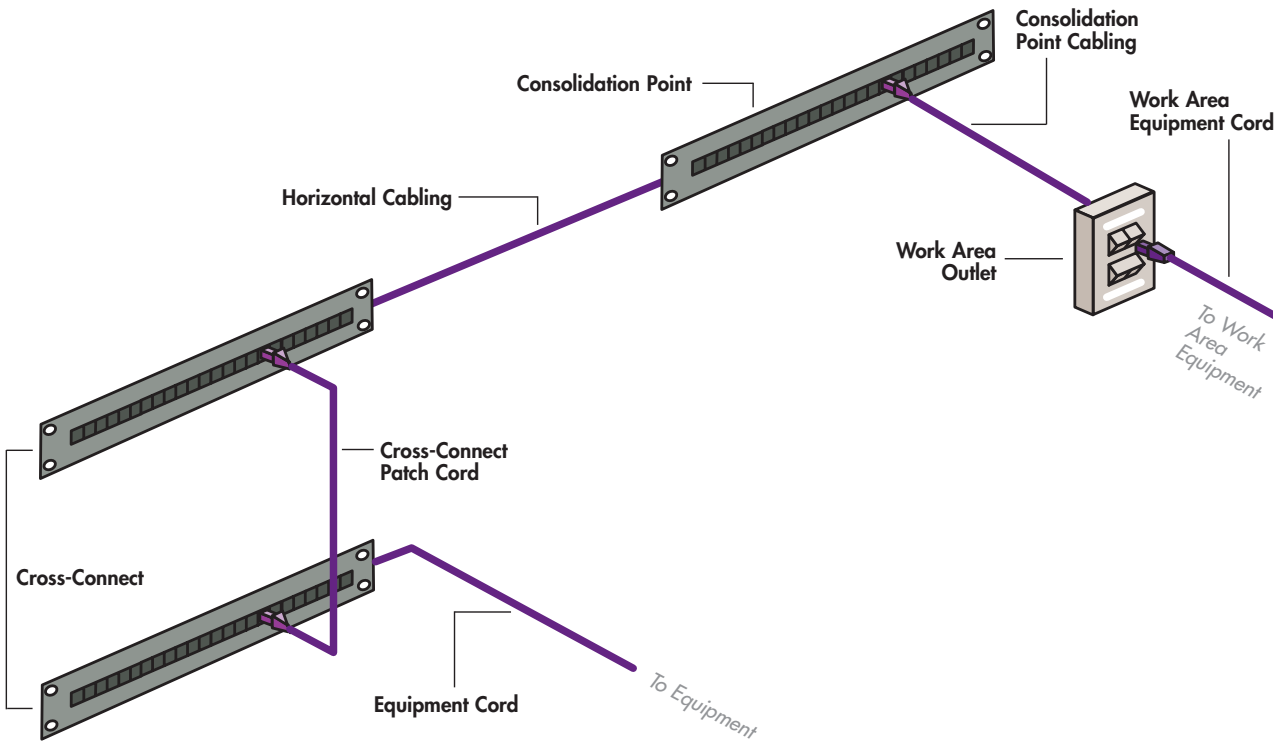


TERA CABLE SHARING

Up to four simultaneous applications can be served from a single 4-pair, S/FTP cable and TERA outlet saving significant materials, labour and space *(Broadband video, voice and 10/100BASE-T shown).*

Cabling Segment	Approved Products
Work Area Patch Equipment Cord	TERA Patch Cord
Work Area	TERA Outlet & MAX® Faceplates or TERA-MAX Adapter for CT® Faceplates
Consolidation Point Cabling	TERA Plugs terminated to TERA Cable
Consolidation Point	TERA Outlets in TERA-MAX Patch Panels
Horizontal Cabling	TERA Cable
Cross-Connect Patch Cord	TERA Patch Cord
Cross-Connect	TERA Outlets in TERA-MAX Patch Panels
Equipment Cord	TERA Patch Cord

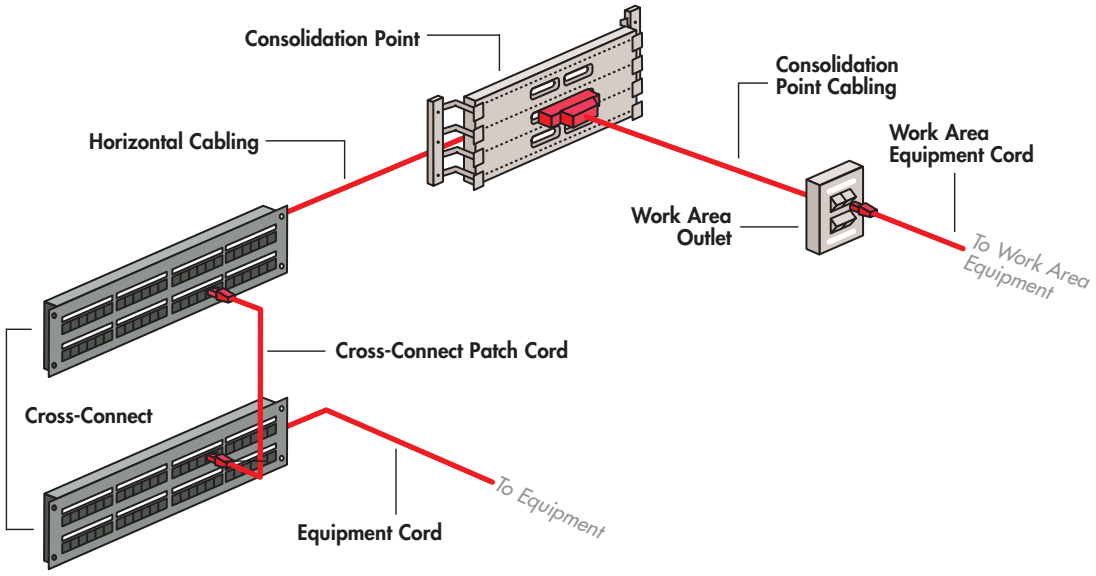
TYPICAL F/UTP CABLING DIAGRAM



Cabling Segment	10G 6A™ F/UTP Screened Approved Products
Work Area Equipment Cord	10G 6A F/UTP Screened MC® or BladePatch® Modular Cord
Work Area	10G 6A F/UTP Screened MAX® Modules & 10G MAX Faceplates, MX-SM® Box
Consolidation Point Cabling	10G 6A F/UTP Screened MC or BladePatch Modular Cord
Consolidation Point	10G 6A F/UTP Screened MAX Modules in TERA®-MAX Patch Panel
Horizontal Cabling	10G 6A F/UTP Cable
Cross-Connect Patch Cord	10G 6A F/UTP Screened MC or BladePatch Modular Cord
Cross-Connect	10G 6A F/UTP Screened MAX Modules in TERA-MAX Patch Panel
Equipment Cord	10G 6A F/UTP Screened MC or BladePatch Modular Cord

Cabling Segment	PREMIUM 5e® F/UTP Screened Approved Products
Work Area Equipment Cord	Premium 5e F/UTP Screened MC or BladePatch Patch Cord
Work Area	Premium 5e F/UTP Screened MAX Modules & 10G MAX Faceplates, MX-SM Box
Consolidation Point Cabling	Premium 5e F/UTP Screened MC or BladePatch Modular Cord
Consolidation Point	Premium 5e F/UTP Screened MAX Modules in TERA-MAX Patch Panel
Horizontal Cabling	Premium 5e F/UTP Cable
Cross-Connect Patch Cord	Premium 5e F/UTP Screened MC or BladePatch Modular Cord
Cross-Connect	Premium 5e F/UTP Screened MAX Modules in TERA-MAX Patch Panel
Equipment Cord	Premium 5e F/UTP Screened MC or BladePatch Modular Cord

TYPICAL UTP CABLING DIAGRAM

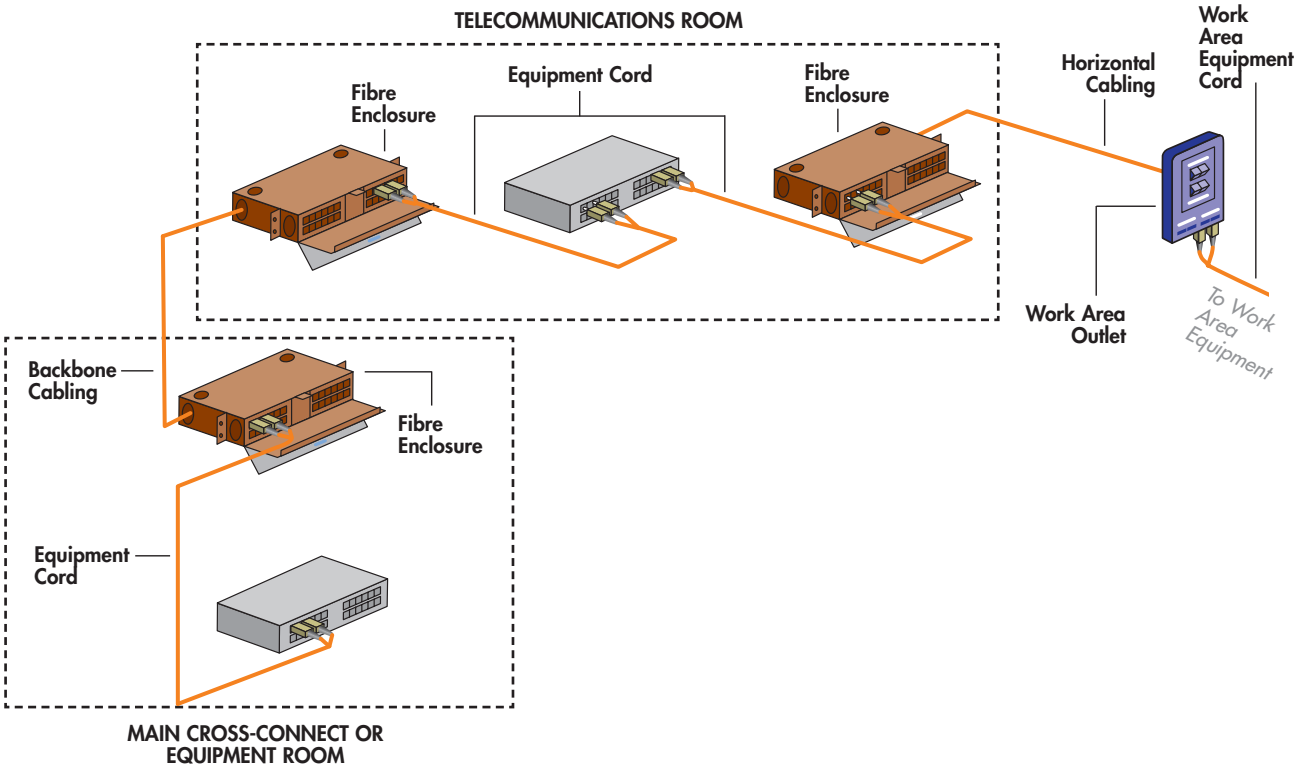


Cabling Segment	10G 6A™ UTP Approved Products
Work Area Equipment Cord	10G 6A UTP MC® or BladePatch® Modular Cord
Work Area	10G 6A UTP MAX® Modules & 10G MAX Faceplates, MX-SM® Box
Consolidation Point Cabling	10G 6A UTP MC or BladePatch Modular Cord
Consolidation Point	S210® Block
Horizontal Cabling	10G 6A UTP Cable
Cross-Connect Patch Cord	10G 6A UTP MC or BladePatch Modular Cord
Cross-Connect	10G 6A UTP MAX Modules in 10G 6A UTP MAX Panels
Equipment Cord	10G 6A UTP MC or BladePatch Modular Cord

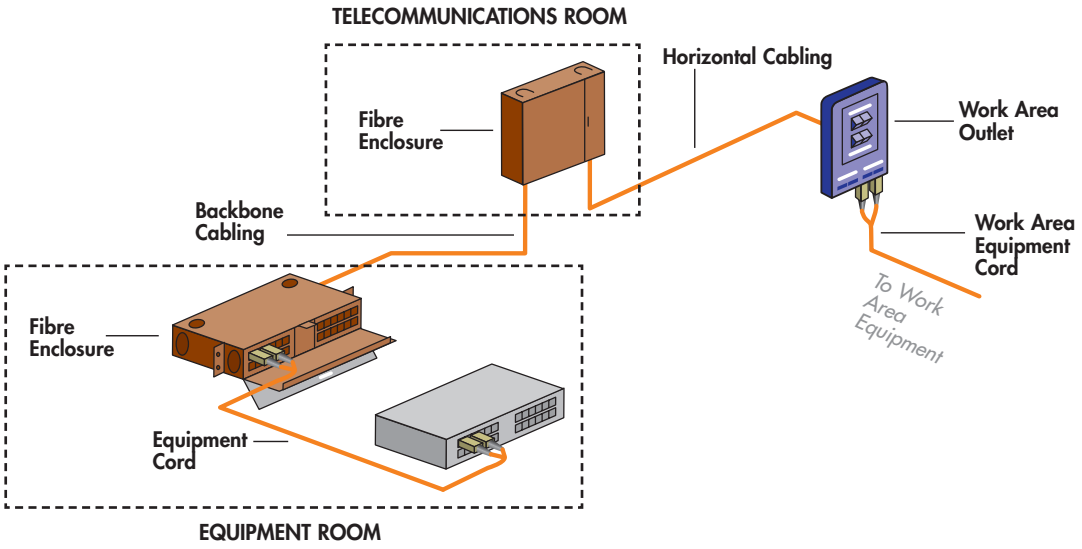
Cabling Segment	SYSTEM 6® UTP Approved Products
Work Area Equipment Cord	System 6 UTP MC or BladePatch Modular Cord
Work Area	System 6 UTP MAX Modules & Faceplates, MX-SM Box
Consolidation Point Cabling	System 6 UTP IC Modular Cord or System 6 UTP Cable
Consolidation Point	System 6 UTP HD®, System 6 UTP MAX Modules in MAX Panel or S210 Block
Horizontal Cabling	System 6 UTP Cable
Cross-Connect Patch Cord	System 6 UTP MC, BladePatch or S210 Cords
Cross-Connect	System 6 UTP HD, System 6 UTP MAX Modules in MAX Panel or S210 Block
Equipment Cord	System 6 UTP MC or IC Modular Cord

Cabling Segment	PREMIUM 5e® UTP Approved Products
Work Area Equipment Cord	Premium 5e UTP MC Modular Cord
Work Area	Premium 5e MAX Modules & MAX Faceplates, MX-SM Box
Consolidation Point Cabling	Premium 5e UTP IC Cords or Premium 5e Cable
Consolidation Point	Premium 5e UTP HD, Premium 5e UTP MAX Modules in MAX Panel, S110® or S66-M150 Blocks
Horizontal Cabling	Premium 5e UTP Cable
Cross-Connect Patch Cord	Premium 5e UTP MC, S110 Cord or CJ5 Cross-Connect Wire
Cross-Connect	Premium 5e UTP HD, Premium 5e UTP MAX Modules in MAX Panel, S110 or S66™
Equipment Cord	Premium 5e UTP MC or IC Modular Cord

TYPICAL FIBRE OPTIC CABLING DIAGRAM — DISTRIBUTED



TYPICAL FIBRE OPTIC CABLING DIAGRAM — CENTRALISED



Cabling Segment	Approved Products
Work Area Equipment Cord	XGLO® or LightSystem® Jumpers
Work Area	MAX® Faceplates, FOB or MX-SM® Box with Fibre Adapters
Horizontal Cabling	XGLO or LightSystem Fibre Cable
Fibre Enclosure	RIC, SWIC or FCP Enclosures with Fibre Adapter Plates
Equipment Cord	XGLO or LightSystem Jumpers
Backbone Cabling	XGLO or LightSystem Fibre Cable

Siemon Value-Added Programs and Services

Great cabling solutions deserve great support.

Siemon prides itself on supporting clients before, during and after the implementation of a cabling solution. From expert training, to global project planning and consulting, to a worldwide installer network to rock solid warranties, Siemon's value-added programs create long-term customer partnerships.

Siemon Certified Installer℠ (CI®) Program — Worldwide network of the industry's best trained cabling system designers and installers. Only installers successfully completing Siemon's full training curriculum and maintaining their knowledge through continued education earn the CI distinction.

Consultant/Architect — Global network of Siemon trained and certified cabling consultants provide proper network planning, design and implementation services, based on industry standard best practices. Siemon consultants ensure a robust and future-proof cabling design.

Project Assistance — Global end-user projects are supported through referrals to CIs, consultants and distributors, ensuring that they get top quality planning, design, installation and logistics services to meet their local and global needs.

GPS™ — Single point of contact for end-users with multi-site installations. Handles bid specification, design/engineering, materials, labour, logistics, implementation and accounting.

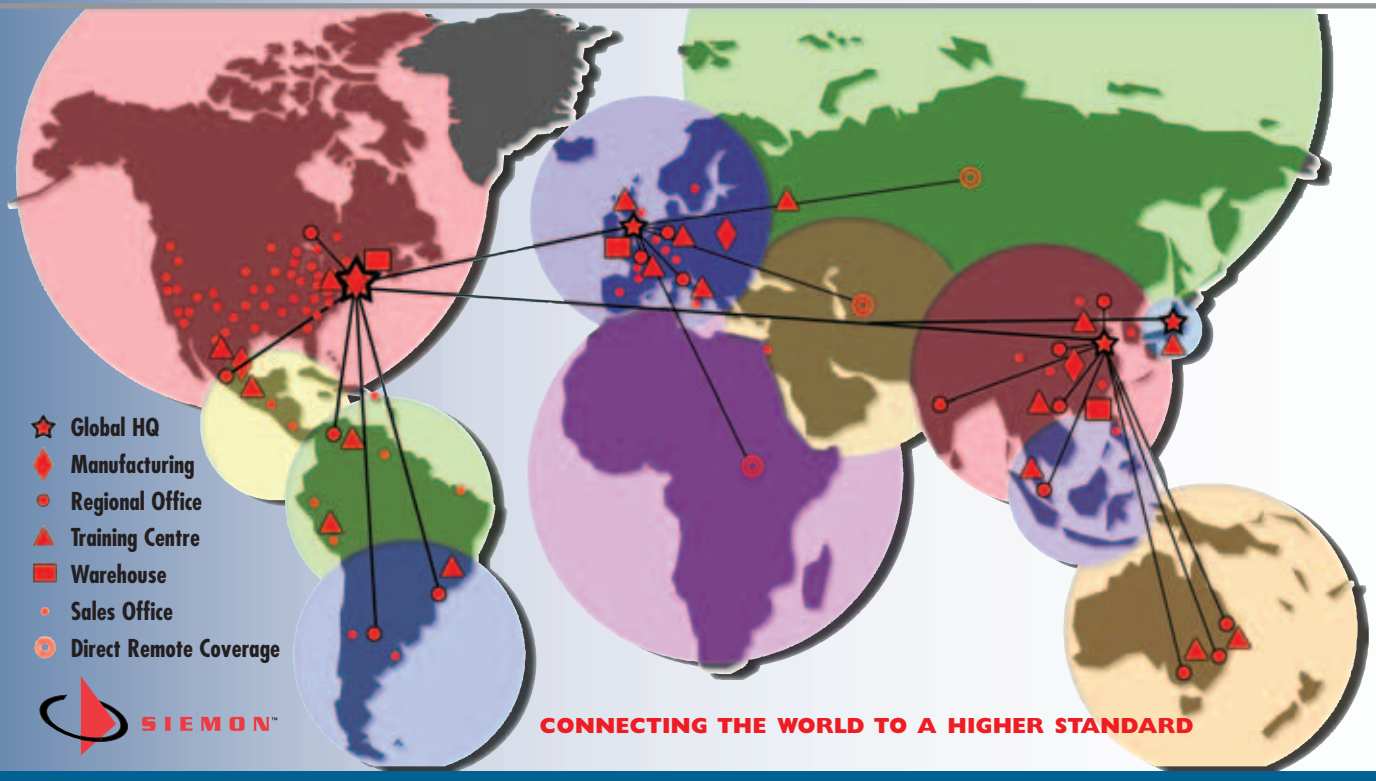
GridWork® — Network infrastructure audit service. Performed by a Siemon Certified Infrastructure Auditor, GridWork verifies network health by testing and inspecting both electronics and physical layer components and installation. GridWork audits are a relatively short and non-intrusive process, delivering actionable reports and recommendations to improve network performance and efficiency.

Emerging Technology Forums (ETF) — An invitation only educational roundtable for top-level IT management, mediated by infrastructure and networking experts. A chance to discuss current and pending industry standards and brainstorm networking topics with others facing similar issues.

Seminars — An opportunity for IT personnel to learn the latest industry standards, trends and physical layer/network management best practices from a variety of infrastructure experts.

Data Centre Design Support/Solutions — Tools and support for standards-based data Centre design and implementation. Siemon data Centre solutions were specifically developed to optimise mission-critical facilities and ensure business continuity.

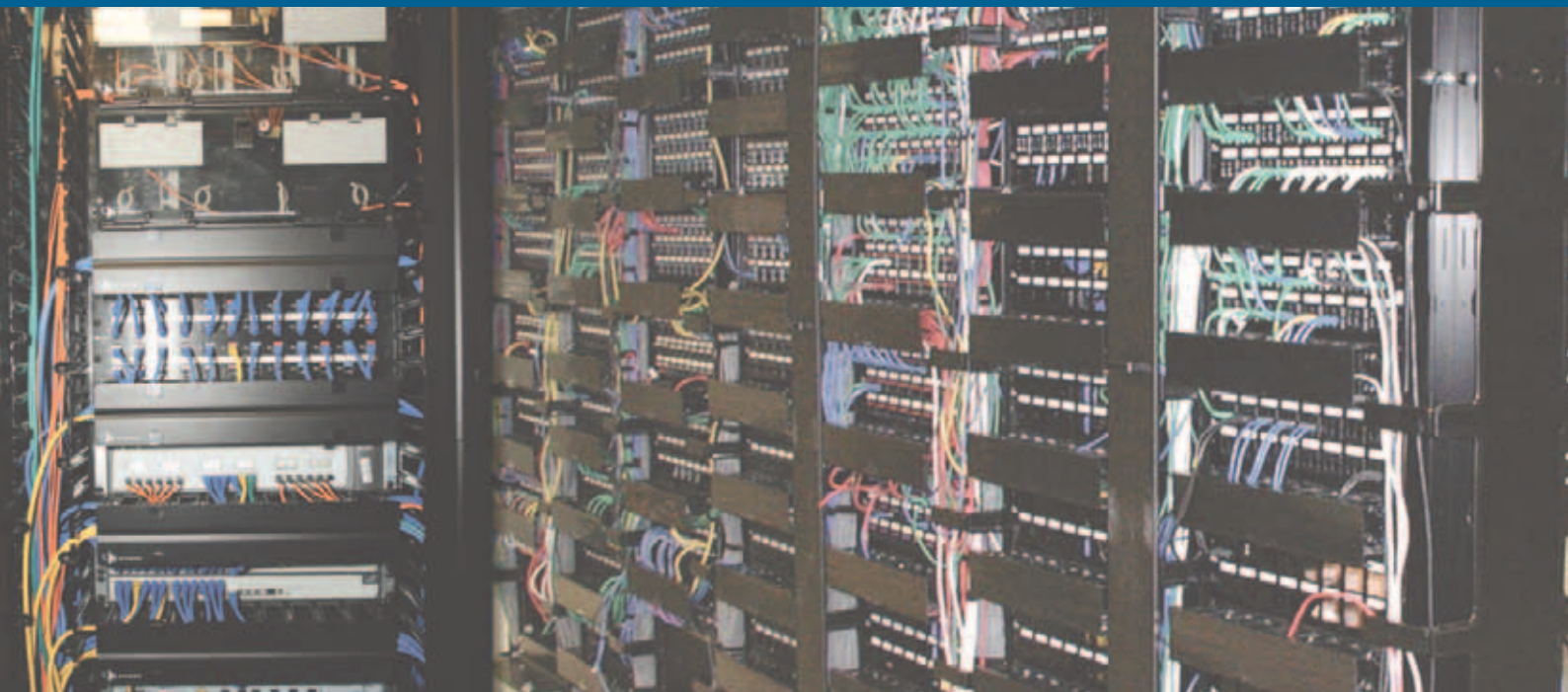
For more information on Siemon's global services, please contact your local office **or visit www.siemon.com.**



Global Infrastructure and Delivery System

The world is our primary market.

Siemon's ability to fully support our clients has no boundaries. Thanks to a continual commitment to improving and expanding our global infrastructure, Siemon can consistently provide quality product, world class support and logistics, anywhere on the planet.



WARRANTY

Siemon® delivers a full range of product and system warranty programs:

- A one (1) year repair or replace warranty on Tools and Testers
- A five (5) year repair or replace warranty for all Siemon connecting hardware and cable
- An extended Siemon Cabling System Warranty covering application assurance, product, cable and labour for installations designed, installed and registered by a Siemon Certified Installer℠.

LIMITED FIVE (5) YEAR PRODUCT WARRANTY

Siemon warrants its products to be free from defects in material and workmanship for a period of five (5) years from the date of shipment. This warranty covers normal conforming industry usage and does not cover mishandling or misuse. Should any product fail to conform, and upon written notice from Distributor of such non-conforming product, Siemon will at its sole option, either replace it F.O.B. original point-of-delivery, or refund the purchase price. Siemon shall have the right to require the Distributor to return the defective product to Siemon's plant unless such return is impracticable. The remedies provided herein shall be Buyer's sole and exclusive remedies, and no statement or recommendation not contained herein shall have any force or effect unless in writing and signed by an authorised officer of Siemon. **SIEMON MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF ANY PRODUCT SOLD. IN NO EVENT WILL SIEMON BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHERE ASSERTED IN CONTRACT, TORT, OR OTHERWISE.** Particular applicable country or state laws may vary the terms of this warranty. This warranty applies only to those cabling products that are used to terminate or cross-connect telecommunications cabling. Warranty terms for other categories of cabling products (e.g. tools, test equipment, protection apparatus, etc.) may vary.

Web Resources

Products

Support

Learning & Events

Download Centre

WWW.SIEMON.COM

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