Category 6 UTP

Siemon offers multiple systems levels of system performance based on our high-performance category 6 connectivity.

- **Paired with Siemon Premium 6™ UTP cable, our connectivity provides a warranted, end-to-end Premium 6 UTP cabling solution. Premium 6 exhibits exceptional margin on all parameters beyond category 6 — exceeding connecting hardware and channel performance specifications set forth for category 6/class E by the TIA and ISO/IEC**
- **With the use of Siemon's Z-MAX® 6 UTP outlets, Siemon's Z-MAX Premium 6 System provides margins beyond those of Premium 6, offering industry leading category 6 system performance**
- **Utilized with Siemon System 6™ UTP cable, Siemon category 6 connectivity offers excellent performance/price value in an end-to-end system that meets or exceed all category 6 parameters**
- **When deployed with Solution 6 UTP cable, Siemon category 6 connectivity delivers a very cost-effective, standards-compliant system designed for installations where the additional performance headroom of Premium 6 and System 6 is not required**

Section Contents

Z-MAX® 6 UTP Outlets

The category 6 UTP Z-MAX outlet offers best-in-class performance exceeding all category 6 performance requirements. Its innovative features not only accelerate and simplify termination, but remove installation variability for consistently high and repeatable performance - every termination, every time! This consistency eliminates troubleshooting time due to ⋆passes during field testing.

Compact — Slim and side-stackable for high-density applications. Supports "pass-thru" feature to mount from the front or rear of a faceplate

Guided Termination Features — Lacing channels guide correct conductor placement while 2-sided color-coding provides wiring verification before and after lacing

Enclosed IDC Terminations — IDC terminations are fully enclosed in the outlet housing for robust protection

High-Visibility Icon System — Printed icons allow designation for voice / data applications and also provide an additional color coding option

Robust Hinged Cable Retention — Hinged clip accommodates multiple cable diameters

Fastest Termination Time — Zero-Cross™ termination module and 2-step Z-TOOL™ termination process combine for best-in-class termination time

Flexibility and Simplified Ordering
A single hybrid outlet supports both angled and flat mounting orientations

Spring Door Option
Minimizes exposure to dust and other contaminants.

Ordering Information:

Z6-(X)(XX) . . . . . .UTP Z-MAX 6 outlet, T568A/B

Mounting Style
(Blank) = Hybrid Flat/Angled
K = Keystone

Bezel Color

01 = Black	**06** = Blue
02 = White	**07** = Green
03 = Red	**09** = Orange
04 = Gray	**20** = Ivory
05 = Yellow	**80** = Light Ivory

Hybrid

Door Option

Keystone

Outlet terminates UTP cable constructions with 23 – 26 AWG (0.64 – 0.51mm) solid and 26 AWG (0.48mm) stranded conductors, with up to 0.60mm diameter conductors and up to 1.48mm diameter over insulation.

Add "D" to end of part number for spring door option. (Hybrid only)

Ⓑ Add "B" to end of part number for bulk project pack of 100 modules. (hybrid modules include icons.).

Note: Z-MAX outlets utilize the Z-TOOL termination tool. Included with each standard pack of Z-MAX outlets.

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

Each Z-MAX 6 UTP hybrid flat/angled outlet includes 1 printed icon set with the following color/print options.
Additional color options available.

Front **Rear**

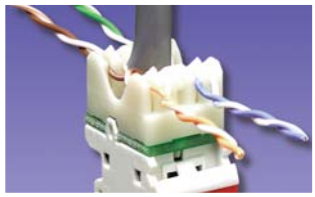
Front	Rear
1 - Red Data	1 - Red Voice
1 - Blue Data	1 - Blue Voice
1 - Bezel Color-matching Data	1 - Bezel Color-Matching Voice
1 - White Blank	1 - Bezel Color-Matching Blank

For more Z-MAX icon colors and options see page 9.5.

MAX® 6 UTP Modules

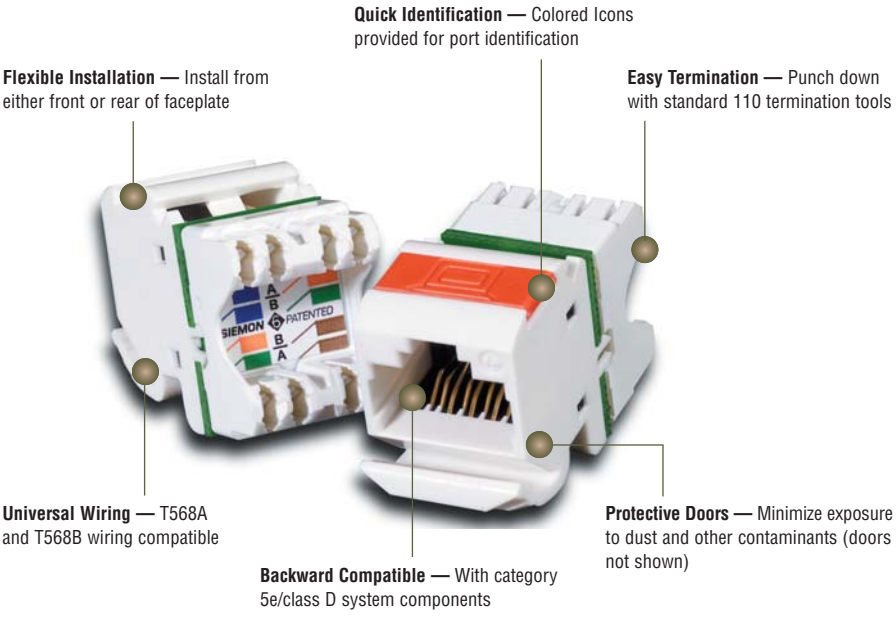
Part of Siemon's category 6 UTP end-to-end Cabling Solution, the MAX 6 module exceeds category 6 connecting hardware performance specifications.

It's compact design is ideal for high density applications. Up to six modules can be utilized 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 cable management in installations where front or rear clearance is at a minimum.



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.



MAX 6 UTP Modules

MX6-(XX) . . . . . .

Category 6 Angled MAX module, T568A/B, rear strain relief cap and protective color-matching rubber door*

MX6-F(XX) . . . . . .

Category 6 Flat MAX module, T568A/B, rear strain relief cap

MX6-K(XX) . . . . . .

Category 6 Keystone MAX module, T568A/B, rear strain relief cap

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

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

Flat modules include one color-matching, one red, and one blue icon.

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

Add "VP" to end of part number for value pack option. Value pack is a kit of 250 jacks, doors, terms caps and color match icons. (Available in flat/ angled only. Door only included with angled version.)

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

CT® 6 UTP Couplers

Angled CT 6 Couplers

Siemon's patented gravity-feed jack controls the bend radius of the mated modular cords to ensure the integrity of the transmission channel, while physically protecting the connection from incidental contact at the work area. The angled shroud creates a slim profile, perfect for installations in shallow raceways and modular furniture.

CT-C6-C6-(XX) . . . . . .
Angled, double coupler,
T568A/B

CT-C6-(XX) . . . . . .
Angled, single coupler,
T568A/B

Technical Tip!
Angled couplers are recommended for work area applications.

Use (XX) to specify color: 01 = black, 02 = white, 04 = gray, 20 = ivory, 80 = light ivory, 82 = alpine white
Add "-D" for spring door option.
Ⓑ Add "B" to end of part number for bulk project pack of 100 couplers.
(Bulk option includes couplers, icons, and termination caps. Cable ties are available separately, see page 1.21).
Couplers include one color-matching icon (clear for black) and one termination cap per port, plus one red and one blue icon.

Flat CT 6 Couplers

Flat CT 6 couplers are designed for use in flush mount applications and are also recommended for use with CT patch panels.

CT-F-C6-C6-(XX) . . . . . .
Flat, double coupler,
T568A/B

CT-F-C6-(XX). . . . . .
Flat, single coupler,
T568A/B

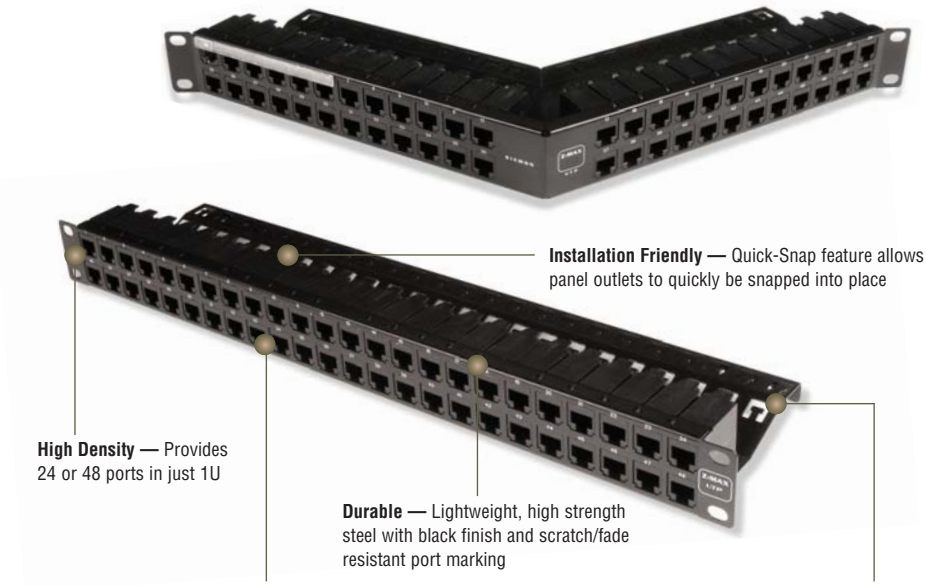
Technical Tip!
Flat couplers are recommended for patch panel applications.

Use (XX) to specify color: 01 = black, 02 = white, 04 = gray, 20 = ivory, 80 = light ivory,
Ⓑ Add "B" to end of part number for bulk project pack of 100 couplers.
(Bulk option includes couplers, icons, and termination caps. Cable ties are available separately.)
Couplers include one color-matching icon (clear for black) and one termination cap per port, plus one red and one blue icon.

Z-MAX® 6 UTP Patch Panels

Z-MAX patch panels provide outstanding performance and aesthetics in a high-density, modular UTP solution. The Z-MAX UTP panels provide rapid and reliable installation by accelerating module mounting, and cable tie-down operations.

In addition to traditional 24-port / 1U flat and angled versions, the Z-MAX UTP panels are also available in 48-port / 1U configurations for ultra high density installations.



Installation Friendly — Quick-Snap feature allows panel outlets to quickly be snapped into place

High Density — Provides 24 or 48 ports in just 1U

Durable — Lightweight, high strength steel with black finish and scratch/fade resistant port marking

Port Identification — High visibility magnifying labeling system enables quick identification of outlets

Aesthetics — The Z-MAX panel provides a clean front surface to improve the installation appearance

Kits
Panels available as complete kits including patch panel, Z-MAX panel outlets, Z-TOOL and all necessary accessories. Empty panels are also available for use with Z-MAX trunk assemblies

Ideal for Trunking Applications
Combine Z-MAX trunk assemblies (with panel outlets) and empty Z-MAX panels for rapid data center deployment

Integrated Cable Management
Ensures proper cable management practices for all installations

Ordering Information:

Z6-PNL(X)-24K.....Z-MAX 24-Port, CAT 6 UTP Patch Panel, Kit, 1 RMS, Black, with Jacks

Z6-PNL(X)-U48K.....Z-MAX 48-Port, CAT 6 UTP Patch Panel Kit, 1 RMS, Black, with Jacks

Z-PNL(X)-24E.....Z-MAX 24-Port UTP Patch Panel, 1RMS, Black, Empty

Z-PNL(X)-U48E.....Z-MAX 48-Port UTP Patch Panel, 1RMS, Black, Empty

Use (X) to specify mounting style: Blank = Flat, A = Angled

Panels include Z-Tool, label / icon holders, designation labels, cable ties, and mounting hardware.*
Note: 1U = 44.5mm (1.75 in.)
** included in kit only*

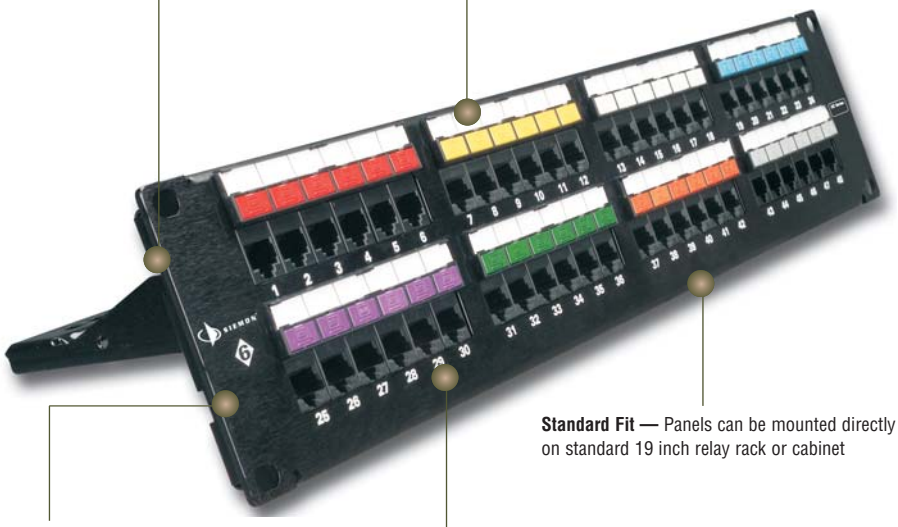
Panel Accessories:

Part #	Description
Z-PNL-PL24	Patch panel label sheet, numbered 1 to 24, bag of 100
Z-PNL-PL48	Patch panel label sheet, numbered 25 to 48, bag of 100
Z-PNL-PS	Patch panel label holder, (6 port ea.) bag of 25
Z6-P	Z-MAX 6 UTP panel outlet

Note: Z-MAX UTP panels are designed for use with Z-MAX UTP panel outlets only

HD® 6 UTP Patch Panels

Siemon's HD 6 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, labeling, and cable management features with Siemon's popular category 6 patch panel.



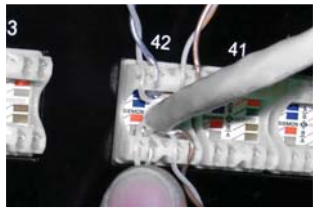
Universal Wiring — HD 6 patch panels feature universal wiring for both T568A/B compatible with standard 110 style single position punch tool.

Installer Friendly — Icon label holders and designation labels included

Standard Fit — Panels can be mounted directly on standard 19 inch relay rack or cabinet

Aesthetics — Front surface is uninterrupted by screw heads for a clean appearance

Port Identification — Bold port numbering enables quick identification of outlets



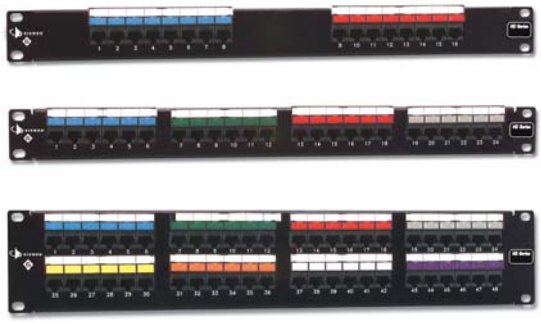
Pyramid™ Wire Entry System
Pyramid wire entry system on S310 blocks separates paired conductors when lacing cables to reduce installation time.

Circuit Protection
Rear metal enclosure protects printed circuitry.

Cable Management
Includes built-in cable manager to properly guide cables to point of termination.

Ordering Information:

Part #	Description
HD6-16	16-port category 6 UTP HD patch panel, 1U
HD6-24	24-port category 6 UTP HD patch panel, 1U
HD6-48	48-port category 6 UTP HD patch panel, 2U
HD6-96	96-port category 6 UTP HD patch panel, 4U



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: 1U = 44.5mm (1.75 in.)
S310 termination blocks are not compatible with S110® multi-pair termination tools.

12-Port HD® 6 Mounted on S89D Bracket

The HD6-89 offers an economical solution for small applications and is ideal for retrofitting S66™ punch down blocks to a high performance modular design.

Part #	Description
HD6-89D-12	12-port HD 6 panel, T568A/B, mounted on S89D bracket
	height: 254.0mm (10.0 in), *width: 85.9mm (3.38 in),* *depth: 60.2mm (2.37 in)*

HD Panel Accessories

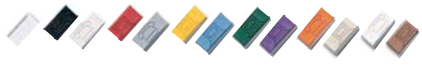
Part #	Description
HD-RWM	Rear cable management bracket for HD patch panels (not compatible with HD5-S-24)
HD5-ICON6-LBL	10 sheets of labels for HD5-ICON6 for laser printing (48 labels per sheet)*
HD5-LBL-480	Adhesive strips for sequentially numbering panel ports 1 through 480 for 24-, 48-, or 96-port panels
HD5-LBL6-2	White removable designation strips in a package of eight for 24-, 48-, or 96-port panels
HD5-ICON6	Adhesive-backed strips in a package of 8 for color-coding and port designation for 24-, 48-, or 96-port panels (icons not included)
CT-ICON-(XX)	25 colored icon tabs (phone on one side, computer on reverse)

HD-RWM

HD5-LBL-480

HD5-LBL6-2

HD5-ICON6



CT-ICON

Use (XX) to specify color: 00 = clear (TAB-XX only), 01 = black, 02 = white, 03 = red, 04 = gray, 05 = yellow, 06 = blue, 07 = green, 08 = violet, 09 = orange, 20 = ivory, 25 = bright white, 60 = brown, 80 = light ivory

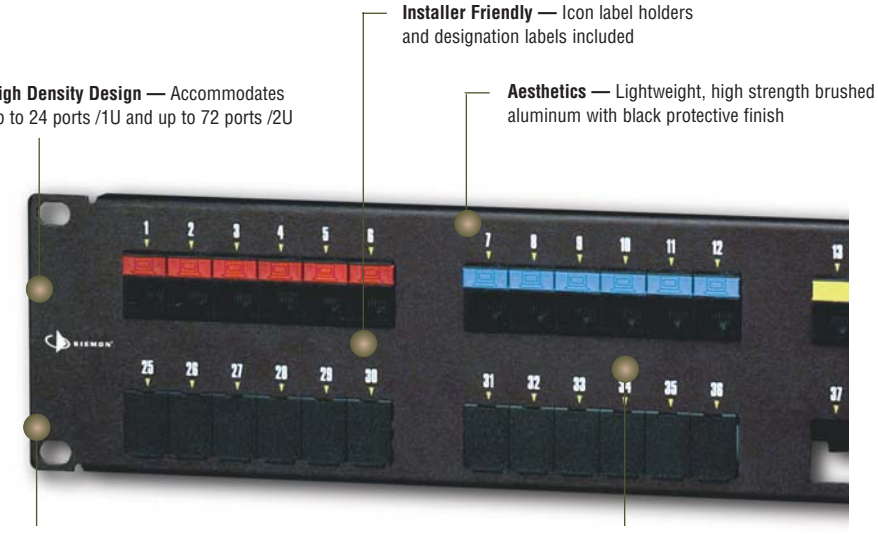
Ⓑ *Add "B" for bulk pack of 100 icons.*

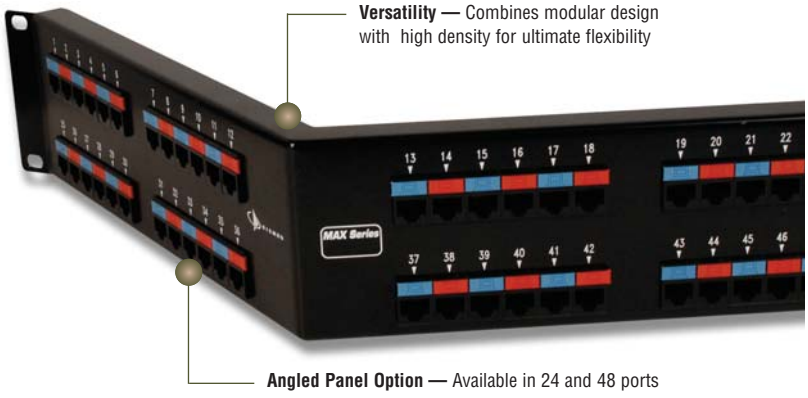
*Visit our web site or contact our Technical Support Department for labeling software.

MAX® Patch Panels

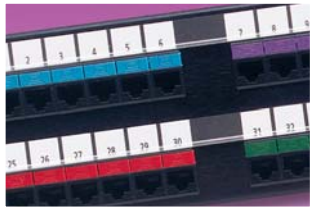
MAX patch panels provide a flexible, high density termination solution for the telecommunications room. Using the full line of Z-MAX® or MAX modules (available separately), the panel can be configured for a variety of multimedia applications. Blank modules can be used to reserve ports for future capacity.

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





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.

Cable Management
Rear Cable management bar included for routing horizontal cables to terminations.

Eliminates Horizontal Cable Managers
Angled panels route patch cords directly into vertical cable managers saving valuable rack space.

MAX® Patch Panels

Part #	Description
MX-PNL-16	16-port MAX patch panel, 1U

Part #	Description
MX-PNL-24	24-port MAX patch panel, 1U

Part #	Description
MX-PNL-48	48-port MAX patch panel, 2U

Part #	Description
MX-PNL-72	72-port MAX patch panel, 2U

Panels include rear cable manager, designation labels, cable ties, and mounting hardware.
MAX Panels are not compatible with shielded MAX or shielded Z-MAX modules. Use the TERA-MAX or Z-MAX shielded panel.
Note: 1U= 44.5mm (1.75 in.)

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
MX-PNLA-24	24-port angled MAX patch panel, 1U

Part #	Description
MX-PNLA-48	48-port angled MAX patch panel, 2U

Angled MAX panels are not compatible with shielded Z-MAX or shielded MAX modules. Use the TERA-MAX or Z-MAX shielded panel.
Angled MAX panels are not recommended for use with RS3 rack series. RS series racks with VPC vertical patching channels are recommended.
Panels include mounting hardware. Rear cable manager not included.
Note: 1U = 44.5mm (1.75 in.)

12-Port MAX® Panel Mounted on S89D Bracket

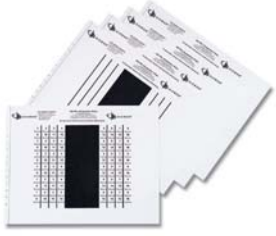
The MAX S89D offers an economical solution for smaller applications while allowing for a range of different media using the full line of MAX modules.

Part #	Description
MX-89D-12	12-port MAX panel mounted on an 89D bracket *height: 254.0mm (10.0 in.),* *width: 85.9mm (3.38 in.),* *depth: 47.8mm (1.88 in.)*

MAX Panel Accessories

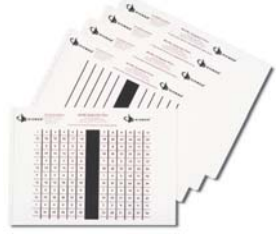
MX-PNL-LBL4*. . . . . .

10 sheets of laser printable labels for 16-port MAX panels



MX-PNL-LBL6*. . . . . .

10 sheets of laser printable labels for 24- and 48-port MAX panels



*Visit our web site or contact our Technical Support Department for labeling software.

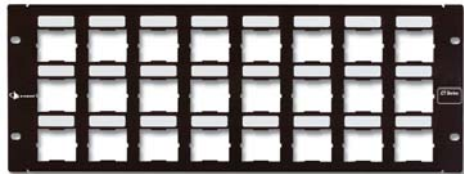
CT® Patch Panels

Oversized CT Panels

Oversized CT panels are available for applications that require additional labeling space. They provide the same flexibility as our standard CT panels and feature a write-on designation surface above each coupler opening that may also be used as a space for adhering your own label. Siemon offers adhesive-backed label holders with replaceable write-on labels that mount above the entire row of CT couplers.

Part #	Description*	RMS	Maximum Quantity of CT Couplers
CT-PNL-24-ID	24-port panel	3	12

Part #	Description*	RMS	Maximum Quantity of CT Couplers
CT-PNL-48-ID	48-port panel	4	24



**Number of ports when configured with two-port CT couplers.*
Note: 1 RMS = 44.5mm (1.75 in.)

CT Patch Panels

Part #	Description*	RMS	Maximum Quantity of CT Couplers
CT-PNL-16	16-port panel	1	8

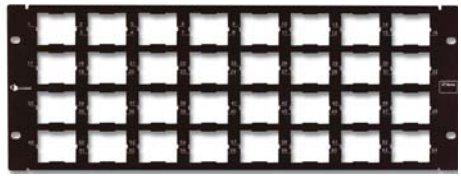
Part #	Description*	RMS	Maximum Quantity of CT Couplers
CT-PNL-24	24-port panel	2	12

Part #	Description*	RMS	Maximum Quantity of CT Couplers
CT-PNL-32	32-port panel	2	16

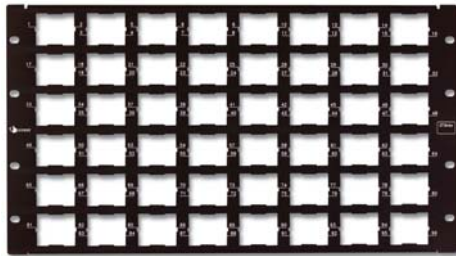
Part #	Description*	RMS	Maximum Quantity of CT Couplers
CT-PNL-48	48-port panel	3	24

**Number of ports when configured with two-port CT couplers.*
Note: 1 RMS = 44.5mm (1.75 in.)

Part #	Description*	RMS	Maximum Quantity of CT Couplers
CT-PNL-64	64-port panel	4	32



Part #	Description*	RMS	Maximum Quantity of CT Couplers
CT-PNL-96	96-port panel	6	48

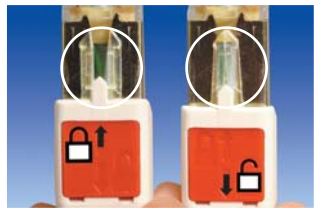


Technical Tip!
Flat couplers are recommended for patch panel applications.

BladePatch® 6 UTP Modular Cords

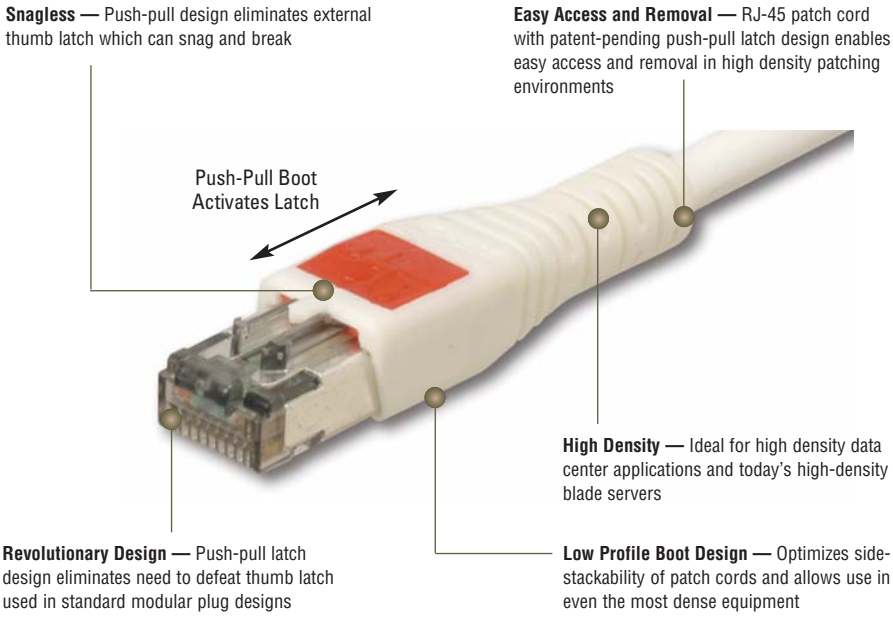
Siemon's BladePatch 6 offers a unique category 6 solution for high-density patching environments. It features an innovative push-pull boot design to control the latch, enabling easy access and removal of the cord in tight-fitting areas. The BladePatch cord is ideal for patching blade servers, patch panels,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

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.



Snagless — Push-pull design eliminates external thumb latch which can snag and break

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

High Density — Ideal for high density data center applications and today's high-density blade servers

Revolutionary Design — Push-pull latch design eliminates need to defeat thumb latch used in standard modular plug designs

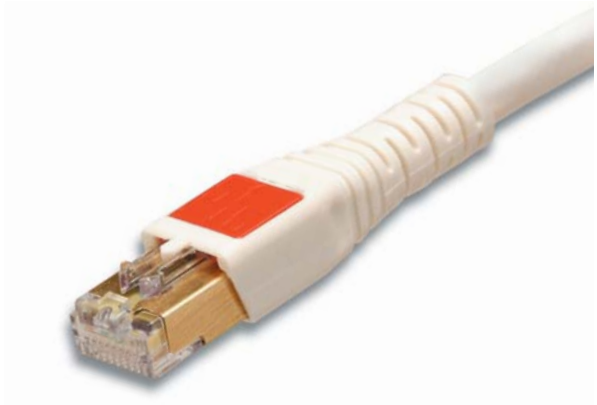
Low Profile Boot Design — Optimizes side-stackability of patch cords and allows use in even the most dense equipment

BladePatch 6 UTP

Category 6 UTP BladePatch, double-ended, RJ-45 modular patch cord with push-pull latching design, color matching cord/boot, T568A/B.

BP6-(XX)-(XX)

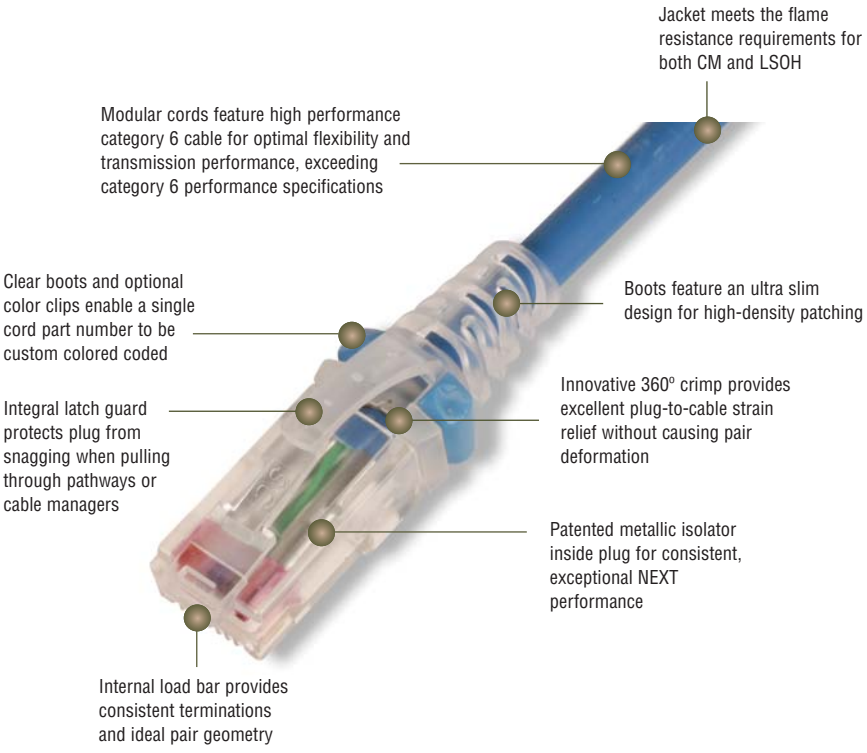
Cord Length:	Cord Color:
03 = 0.9m (3 ft.)	**01** = Black
05 = 1.5m (5 ft.)	**02** = White
07 = 2.1m (7 ft.)	**03** = Red
10 = 3.1m (10 ft.)	**04** = Gray
15 = 4.6m (15 ft.)	**05** = Yellow
20 = 6.1m (20 ft.)	**06** = Blue
	07 = Green
	08 = Violet
	09 = Orange



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

MC® 6 UTP Modular Cords

Siemon's category 6 series of modular cords are key components to ensure optimum channel performance of our category 6 UTP systems. A variety of product enhancements contribute to the cord's superior performance — including 250 MHz rated stranded cordage, a patented crosspair isolator and an innovative 360° crimp, which provides excellent plug-to-cable strain relief without causing pair deformation. The cable used to manufacture the category 6 patch cords exceeds the specifications set forth by both ANSI/TIA-568-C.2 and ISO/IEC 11801:2002.



Excellent Bend Relief
Boot and integrated strain relief ensures proper bend relief, critical for category 6 performance

Color Coding
Optional colored clips enable field color coding and can easily be snapped into place without having to disconnect cords

STANDARDS COMPLIANCE
- ANSI/TIA-568-C.2
- ISO/IEC 11801
- IEEE 802.3af (PoE)
- IEEE 802.3at (PoE+)
- IEC 60603-7
- cUL US Listed
- TIA-968-A (formerly FCC Part 68 Subpart F)

MC 6 UTP Modular Cords

Category 6 MC, double-ended, 4-pair UTP stranded modular patch cord, T568A/B, clear boot.

MC6-(XX)-(XX)

Cord Length:
- **03** = 0.9m (3 ft.)
- **05** = 1.5m (5 ft.)
- **07** = 2.1m (7 ft.)
- **10** = 3.1m (10 ft.)
- **15** = 4.6m (15 ft.)
- **20** = 6.1m (20 ft.)

Cord Color:

01 = Black	**04** = Gray	**07** = Green
02 = White	**05** = Yellow	**08** = Violet
03 = Red	**06** = Blue	**09** = Orange

CLIP-(XX) . . . . . Color coding clip, bag of 25

Clip Color

01 = Black	**04** = Gray	**07** = Green
02 = White	**05** = Yellow	**08** = Violet
03 = Red	**06** = Blue	**09** = Orange

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

IC® 6 Solid Single-Ended Cords

Siemon's category 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 cords are 100% factory transmission tested to 250 MHz and feature the same plug construction used in Siemon's stranded category 6 modular cords. These cords are available in CMP and CMR versions and are single-ended for direct termination.

Premium 6 IC Modular Cords

Part #	Description
IC6E-8A-(XX)-B(XX)R	Premium 6 IC, single-ended, non-plenum, 4-pair UTP solid modular cord, blue jacket with colored boot, T568B, CMR
IC6E-8T-(XX)-B(XX)R	Premium 6 IC, single-ended, non-plenum, 4-pair UTP solid modular cord, blue jacket with colored boot, T568A, CMR
IC6E-8A-(XX)-B(XX)P	Premium 6 IC, single-ended, plenum, 4-pair UTP solid modular cord, blue jacket with colored boot T568B, CMP
IC6E-8T-(XX)-B(XX)P	Premium 6 IC, single-ended, plenum, 4-pair UTP solid modular cord, blue jacket with colored boot, T568A, CMP

System 6 IC Modular Cords

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

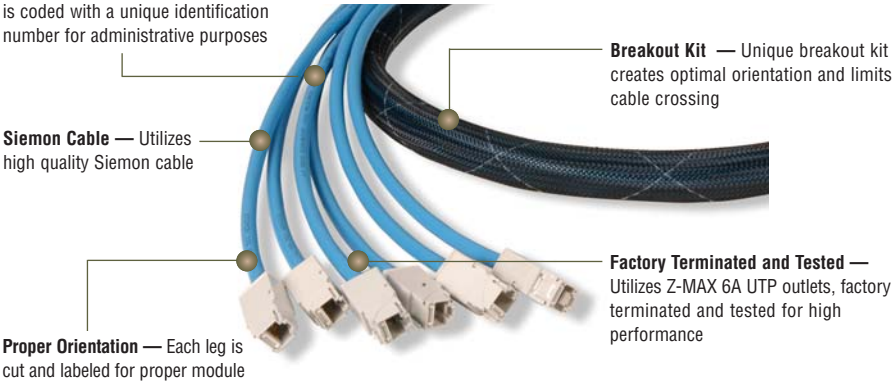
Use 1st (XX) to specify cord length: 10 = 3.1m (10 ft.), 20 = 6.1m (20 ft.), 30 = 9.1m (30 ft.), 40 = 12.2m (40 ft.), 50 = 15.2m (50 ft.), 60 = 18.3m (60 ft.)

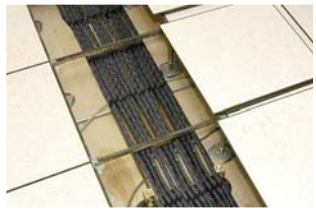
Use 2nd (XX) to specify color of boot: 01 = black, 02 = white, 03 = red, 04 = gray, 05 = yellow, 06 = blue, 07 = green

Add "D" to denote double-ended.

Category 6 UTP Trunking Cable Assemblies

Siemon's category 6 UTP copper trunking cable assemblies provide an efficient and cost effective alternative to individual field-terminated components. Combining factory terminated and tested UTP Z-MAX® or MAX® modules with Siemon Premium™ or System 6™ cable, Siemon copper trunking cable assemblies were designed with data center 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. the modular design and reduced scrap of trunk assemblies make them the most "Green" method for category 6 cabling.





Data Centers
Ideal for data centers, raised floor and ladder rack environments enabling up to 75% faster deployment time. Well organized cable bundles improve cable management and air flow.

Straight Cut
Typical installation utilizing Straight Cut ensures each cable is terminated at the proper length and allows left, right or center exit.

Protective Packaging
Each assembly is packaged individually to protect factory terminations.

MAX Premium 6 Double-Ended Trunking Cable Assemblies

Part #	Description
TPRD6E-A1A1(XXX)F	6 Leg Solid Cable Trunking Cable Assembly, blue jacket, CMR
TPPD6E-A1A1(XXX)F	6 Leg Solid Cable Trunking Cable Assembly, blue jacket, CMP

MAX System 6 Double-Ended Trunking Cable Assemblies

Part #	Description
TCRD6E-A1A1(XXX)F	6 Leg Solid Cable Trunking Cable Assembly, blue jacket, CMR
TCPD6E-A1A1(XXX)F	6 Leg Solid Cable Trunking Cable Assembly, blue jacket, CMP

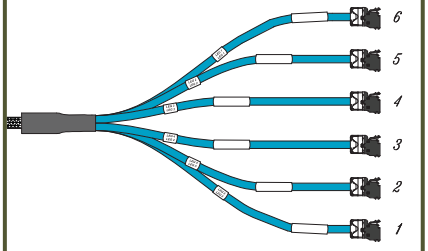
Z-MAX Premium 6 Double-Ended Trunking Cable Assemblies w/Panel Outlets

Part #	Description
TPRD6E-P0P0(XXX)F	6 Leg Solid Cable Trunking Cable Assembly, blue jacket, CMR
TPPD6E-P0P0(XXX)F	6 Leg Solid Cable Trunking Cable Assembly, blue jacket, CMP

Z-MAX System 6 Double-Ended Trunking Cable Assemblies w/Panel Outlets

Part #	Description
TCRD6E-P0P0(XXX)F	6 Leg Solid Cable Trunking Cable Assembly, blue jacket, CMR
TCPD6E-P0P0(XXX)F	6 Leg Solid Cable Trunking Cable Assembly, blue jacket, CMP

STRAIGHT CUT



Use (XXX) to specify length: 009-295 ft. in increments of 3 feet
Standard wiring is T568B. Other lengths and configurations available upon request.

Premium 6™ UTP 4-Pair Cable (US)

COMPLIANCE

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

CABLE CONSTRUCTION

- UTP
- 0.57mm (0.023 in.) (23 AWG) solid bare copper
- 6 mm (0.24 in.) max jacket diameter
- Central isolation member

Part #	Description
9C6P4-E4-(XX)-RBA	Plenum (CMP, CSA FT6) 305m (1000 ft.) Reel-in-Box
9C6R4-E4-(XX)-RBA	Riser (CMR. CSA FT4) 305m (1000 ft.) Reel-in-Box

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

ELECTRICAL SPECIFICATIONS

DC Resistance	<9.38Ω/100m
DC Resistance Unbalance	3%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1-100 MHz: 100 ± 15% 100-250 MHz: 100 ± 20%
NVP	CMP-70% CMR-68%
TCL	30-10 log(*f*/100) dB
Delay Screw	≤25ns

PHYSICAL PROPERTIES

	CMP	CMR
Pulling Tension (max)	110N (25 lbf)	110N (25 lbf)
Bend Radius (min)	35.6mm (1.4 in.)	35.6mm (1.4 in.)
Installation Temperature	0 to 60°C (+32 to 140°F)	0 to 60°C (+32 to 140°F)
Storage Temperature	-20 to 75°C (-4 to 167°F)	-20 to 75°C (-4 to 167°F)
Operating Temperature	-20 to 60°C (-4 to 140°F)	-20 to 60°C (-4 to 140°F)

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	81.3	96.0	79.3	92.2	79.3	94.2	77.3	90.2	74.8	84.8	71.8	79.8	20.0	29.0	570	540
4.0	3.7	3.3	72.3	89.0	70.3	83.0	68.5	85.7	66.5	79.7	62.7	72.8	59.7	67.8	23.0	32.0	552	522
10.0	5.9	5.2	66.3	83.0	64.3	77.0	60.4	77.8	58.4	71.8	54.8	64.8	51.8	59.8	25.0	36.0	545	515
16.0	7.4	6.7	63.2	80.0	61.2	74.0	55.8	73.3	53.8	67.3	50.7	60.7	47.7	55.7	25.0	36.0	543	513
20.0	8.3	7.5	61.8	79.0	59.8	73.0	53.5	71.5	51.5	65.5	48.7	58.8	45.7	53.8	25.0	36.0	542	512
31.25	10.34	9.4	58.9	76.0	56.9	70.0	48.5	66.6	46.5	60.6	44.9	54.9	41.9	49.9	23.6	34.0	540	510
62.5	14.9	13.7	54.4	71.0	52.4	65.0	39.5	57.3	37.5	51.3	38.8	48.9	35.8	43.9	21.5	34.0	539	509
100.0	19.0	17.8	51.3	68.0	49.3	62.0	32.3	50.2	30.3	44.2	34.8	44.8	31.8	39.8	20.1	33.0	538	507
160.0	24.4	22.7	48.2	65.0	46.2	59.0	23.9	42.3	21.9	36.3	30.7	40.7	27.7	35.7	18.7	32.0	537	506
200.0	27.5	25.8	46.8	64.0	44.8	58.0	19.3	38.2	17.3	32.2	28.7	38.8	25.7	33.8	18.0	31.0	537	506
250.0	31.0	29.2	45.3	62.0	43.3	56.0	14.4	32.8	12.4	26.8	26.8	37.0	23.8	31.8	17.3	31.0	536	506
300.0*	34.2	31.5	44.1	61.0	42.1	55.0	10.0	29.5	8.0	23.5	25.2	36.0	22.2	30.0	16.8	29.0	536	505
400.0*	40.0	37.9	42.3	59.0	40.3	53.0	2.3	21.1	0.3	15.1	22.7	32.0	19.7	27.0	15.9	27.0	536	505
500.0*	45.3	39.9	40.8	48.0	38.8	52.0	-1.2	15.4	-6.4	11.9	20.8	31.0	17.8	26.0	15.2	26.0	536	505
550.0*	47.7	42.1	40.2	47.0	38.2	51.0	-7.5	14.9	-9.5	8.9	19.9	30.0	16.9	26.0	14.9	25.0	536	505

**Values for frequencies above industry requirements are for information only.*

All performance based on 100 meters (328 ft.).

System 6™ UTP 4-Pair Cable (US)

COMPLIANCE

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

CABLE CONSTRUCTION

- UTP
- 0.54 mm (0.021 in.) (23 AWG) solid bare copper
- 5.3 mm (0.208 in.) Nom. jacket diameter - plenum
- 5.6 mm (0.22 in.) Nom. jacket diameter - riser
- Central isolation member

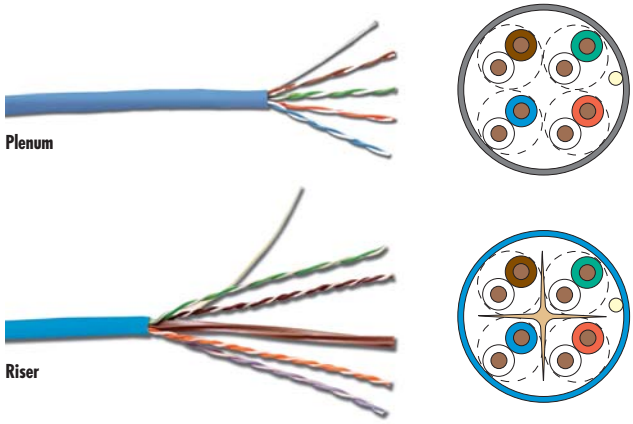
Part # **Description**

9C6P4-E3-(XX)-RXA . . . . . Plenum (CMP, CSA FT6) 305m (1000 ft.) Reelex

9C6R4-E3-(XX)-RXA . . . . . Riser (CMR. CSA FT4) 305m (1000 ft.) Reelex

Use (XX) to specify jacket color:

02 = white, 03 = red, 04 = gray, 05 = yellow, 06 = blue, 07 = green



ELECTRICAL SPECIFICATIONS

DC Resistance	<9.38Ω/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%
TCL	30-10 log(*f*/100) dB
Delay Screw	≤35ns

PHYSICAL PROPERTIES

	CMP	CMR
Pulling Tension (max)	110N (25 lbf)	110N (25 lbf)
Bend Radius (min)	25mm (1 in.)	25mm (1 in.)
Installation Temperature	0 to 60°C (+32 to 140°F)	-36 to 60°C (-32 to 140°F)
Storage Temperature	-20 to 75°C (-4 to 167°F)	-34 to 75°C (-30 to 167°F)
Operating Temperature	-20 to 60°C (-4 to 140°F)	-34 to 60°C (-30 to 140°F)

TRANSMISSION PERFORMANCE

GUARANTEED WORST CASE SIEMON TYPICAL

Frequency µ(MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PS ACR (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	75.3	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	39.7	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

**Values for frequencies above industry requirements are for information only.*

All performance based on 100 meters (328 ft.).

Solution 6™ UTP Cable- Plenum (US)

COMPLIANCE

- ISO/IEC 11801:2002 (Category 6)
- TIA/EIA-568-C.2
- UL CMP and CSA FT6
- RoHS Compliant

CABLE CONSTRUCTION

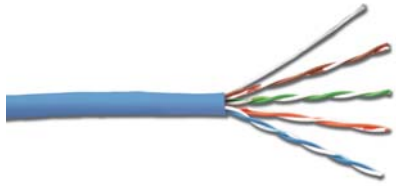
- UTP
- 0.57mm (0.023 in.) (23 AWG) solid bare copper
- 5 mm (0.192 in.) max jacket diameter

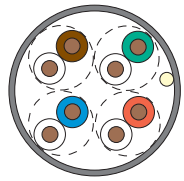
Part # **Description**

9C6P4-E2-(XX)-RXA .....Plenum (CMP, CSA FT6) 305m (1000 ft.) Reelex

Use (XX) to specify jacket color:

01 = black, 02 = white, 03 = red, 04 = gray, 05 = yellow, 06 = blue, 07 = green, 08 = violet, 09 = orange





ELECTRICAL SPECIFICATIONS

DC Resistance	<9.38Ω/100m
DC Resistance Unbalance	5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1-100 MHz: 100 ± 15% 100-520 MHz: 100 ± 22%
NVP	CMP-70%
LCL	30-10 log(*f*/100) dB
Delay Screw	≤45ns

PHYSICAL PROPERTIES

	CMP
Pulling Tension (max)	110N (25 lbf)
Bend Radius (min)	25mm (1 in.)
Installation Temperature	0 to 60°C (+32 to 140°F)
Storage Temperature	-20 to 75°C (-4 to 167°F)
Operating Temperature	-20 to 60°C (-4 to 140°F)

TRANSMISSION PERFORMANCE

GUARANTEED WORST CASE SIEMON TYPICAL

Frequency (MHz)	**Insertion Loss (dB)**		**NEXT (dB)**		**PS NEXT (dB)**		**ACR-N (dB)**		**PS ACR -N (dB)**		**ACR-F (dB)**		**PS ACR-F (dB)**		**Return Loss (dB)**		**Propagation Delay (ns)**	
1.0	2.0	1.8	74.3	98.8	72.3	96.3	72.3	97.1	70.3	94.6	67.8	88.8	64.8	86.2	20.0	27.1	570	493
4.0	3.8	3.5	65.3	85.4	63.3	83.6	61.3	81.8	59.5	80.1	55.8	77.4	52.8	75.3	23.0	35.2	552	491
10.0	6.0	5.6	59.3	75.6	57.3	74.3	53.3	70.0	51.3	68.7	47.8	71.0	44.8	67.8	25.0	34.2	545	487
16.0	7.6	7.1	56.2	74.9	54.2	73.8	48.7	67.8	46.7	66.6	43.7	66.6	40.7	64.3	25.0	34.1	543	485
20.0	8.5	8.0	54.8	71.4	52.8	69.3	46.3	63.4	44.3	61.3	41.8	65.4	38.8	62.2	25.0	37.6	542	485
31.25	10.7	10.0	51.9	70.8	49.9	68.6	41.2	60.8	39.2	58.6	37.9	62.7	34.9	58.7	23.6	35.0	540	484
62.5	15.4	14.4	47.4	62.7	45.4	62.3	32.0	48.3	30.0	47.9	31.9	55.4	28.9	52.5	21.5	27.6	539	482
100.0	19.8	18.5	44.3	58.7	42.3	58.4	24.5	40.2	22.5	39.8	27.8	50.6	24.8	47.9	20.1	27.4	538	482
160.0	25.6	24.0	41.2	62.1	39.2	59.2	15.6	38.1	13.6	35.2	23.7	46.7	20.7	43.5	18.7	25.7	537	481
200.0	29.0	27.0	39.8	54.6	37.8	54.2	10.8	27.6	8.8	27.2	21.8	44.4	18.8	41.4	18.0	22.2	537	481
250.0	32.8	30.5	38.3	53.0	36.3	52.1	5.5	22.5	3.5	21.6	19.8	41.7	16.8	39.7	17.3	25.3	536	481
300.0*	-	33.8	-	53.5	-	52.3	-	19.7	-	18.5	-	39.9	-	37.5	-	20.1	-	481
400.0*	-	39.9	-	49.9	-	49.0	-	10.1	-	9.2	-	34.1	-	33.0	-	18.2	-	481
500.0*	-	45.2	-	55.3	-	52.7	-	10.0	-	7.4	-	34.4	-	31.2	-	17.7	-	480
550.0*	-	48.2	-	46.2	-	44.5	-	-2.0	-	-3.8	-	33.1	-	30.2	-	19.6	-	480

**Values for frequencies above industry requirements are for information only.*

All performance based on 100 meters (328 ft.).

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 as a category 6 channel.

Colored Labels — Designation strip with interchangeable colored labels can be mounted between each row of connecting blocks

Easy Termination — Utilizes same termination practices as existing S110 product and is compatible with all single-position S110 termination tools as well as Siemon's S210 multi-pair termination tool

Stand-off Legs — Patented stand-off legs may be detached from the block before, during, or after installation on 64-pair version

Compatibility — Utilizes same wiring base footprint as standard S110® products to be fully compatible with existing S110 mounting and cable management solutions

Internal Crosstalk Barriers
Provide superior NEXT performance (13 dB NEXT margin over category 6 specifications) via 360° pair isolation.

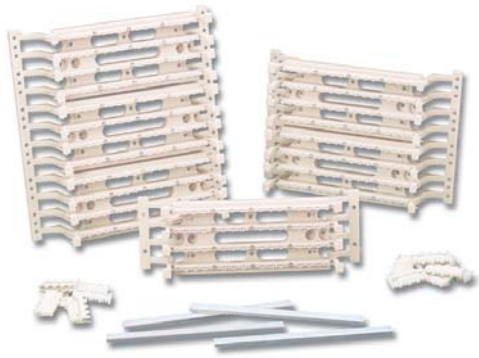
Pyramid™ Wire Entry System
Separates paired conductors when lacing cables to simplify and reduce installation time.

Patented Cable Access Openings
Allow cables to be routed through the rear of the block directly to the point of termination.

S210 Field Termination Kits

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 (3.60 in.), width: 272mm (10.71 in.), depth: 82.8mm (3.26 in.)
S210AB2-128FT	128-pair, S210 field termination kit height: 182.9mm (7.20 in.), width: 272mm (10.71 in.), depth: 82.8mm (3.26 in.)
S210AB2-192FT	192-pair, S210 field termination kit height: 275mm (10.81 in.), width: 272mm (10.71 in.), depth: 82.8mm (3.26 in.)



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

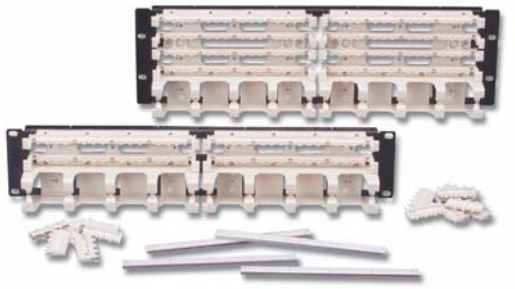
S210® Field Terminated 19 Inch Panels

S210 panels allow wiring blocks to be mounted directly to a 19 inch rack or cabinet. Each panel includes the appropriate quantity of S210 connecting blocks, mounting hardware and 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 jacket and twist up to the point of termination.

Part #	Description
S210DB2-64RFT	64-pair, 19 inch S210 field termination kit, 1U
S210DB2-128RFT	128-pair, 19 inch S210 field termination kit, 2U
S210DB2-192RFT	192-pair, 19 inch S210 field termination kit, 3U

Note: 1U = 44.5mm (1.75 in.)

S210 Field Terminated 19 Inch Panels with Cable Managers



Part #	Description
S210DB2-64RWM	64-pair, 19 inch S210 field termination kit, 2U with cable managers and covers
S210DB2-128RWM	128-pair, 19 inch S210 field termination kit, 3U with cable managers and covers

Note: 1U = 44.5mm (1.75 in.)

Each kit includes adequate connecting blocks to fully populate panel.

Vertically Mounted S210 Field Termination Kits

These 32-pair or 48-pair S210 blocks can be mounted on the same S89B or S89D brackets that hold our S66™ blocks. The high density 48-pair kit provides category 6 performance in the same footprint as a standard M1-50 66 block. Field-termination kits include the S210 connecting blocks, designation labels and label holders.

Part #	Description
S210DB1-48FT-89	48-pair S210 field termination kit on an 89-type retainer*
S210DB1-32FT-89	32-pair S210 field termination kit on an 89-type retainer*

**S89 Brackets are not included and must be ordered separately.*

S210DB1-48FT-89

S210DB1-32FT-89

S210® Tower Field Termination Kits

Part #	Description
S210MB2-192FT	192-pair, S210 Tower field termination kit height: 406mm (16 in.), width: 216mm (8.50 in.), depth: 152mm (6 in.)
S210MB2-256FT	256-pair, S210 Tower field termination kit height: 541mm (21.31 in.), width: 216mm (8.50 in.), depth: 152mm (6 in.)
S210MB2-320FT	320-pair, S210 Tower field termination kit height: 676mm (26.62 in.), width: 216mm (8.50 in.), depth: 152mm (6 in.)

Each kit includes adequate connecting blocks to fully populate tower.

Large-Scale Vertical Cable Managers

The S188 large scale vertical cable manager for the S110®/S210 Towers accommodates our quarter-turn RS-CH cable managers. With the RS-CH managers installed, additional vertical channels can be integrated into the main channel to segregate patch cables and cross-connect wire.

Part #	Description
S188-300	Large-scale vertical cable manager for use with 192-pair S210 Tower height: 406mm (16 in.), width: 216mm (8.50 in.), depth: 152mm (6 in.)
S188-400	Large-scale vertical cable manager for use with 256-pair S210 Tower height: 541mm (21.31 in.), width: 216mm (8.50 in.), depth: 152mm (6 in.)
S188-500	Large-scale vertical cable manager for use with 320-pair S210 Tower height: 676mm (26.62 in.), width: 216mm (8.50 in.), depth: 152mm (6 in.)

Small-Scale Vertical Cable Managers

Part #	Description
S110M-WM-300	Small-scale vertical cable manager, for use with 192-pair S210 Tower height: 406mm (16 in.), width: 76.2mm (3.0 in.), depth: 152mm (6 in.)
S110M-WM-400	Small-scale vertical cable manager, for use with 256-pair S210 Tower height: 541mm (21.31 in.), width: 76.2mm (3.0 in.), depth: 152mm (6 in.)
S110M-WM-500	Small-scale vertical cable manager, for use with 320-pair S210 Tower height: 676mm (26.62 in.), width: 76.2mm (3.0 in.), depth: 152mm (6 in.)

S210 Tower Optional Accessories

Part #	Description
S188-WD	Metal duct for additional horizontal cable management at base of S210 Tower height: 114.3mm (4.50 in.), width: 215.9mm (8.50 in.), depth: 203.2mm (8 in.)
S188-GND	Ground kit consists of one, 3-position grounding busbar height: 9.0mm (0.35 in.), width: 50.8mm (2.0 in.), depth: 12.3mm (0.49 in.)

S188-WD

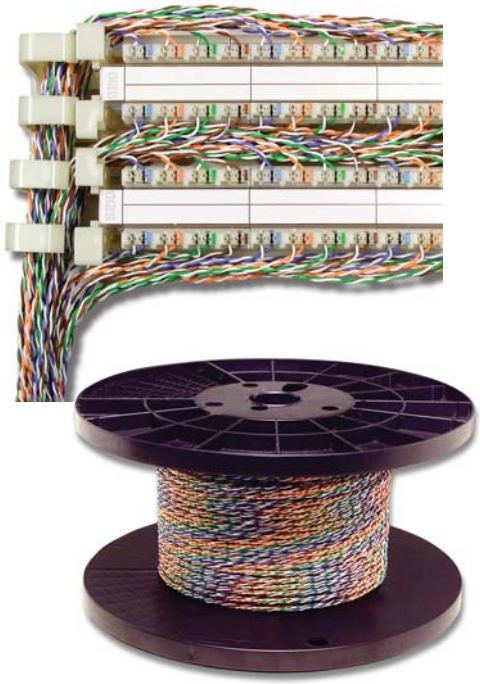
S188-GND

S210® Connecting Block

Siemon S210 blocks terminate 22 – 26 AWG (0.64mm – 0.40mm) solid or 7-strand wires. They also incorporate markings to designate tip and ring conductors, color-coded pairs on each block and Siemon's patent-pending Pyramid™ wire entry system to expedite lacing of pairs.

Part #	Description
S210C-4	4-pair, S210 connecting block

System 6™ Cross-Connect Wire



Siemon's System 6 cross-connect is ideal for cross-connect applications up to 5 meters (15 ft.). It can be used for System 6 installations using S210® wiring blocks.

Part #	Description
CJ6-W4-1000	Category 6, 4-pair, 24 AWG (0.05mm), solid cross-connect wire, pair colors blue/orange/green/brown, 305mm (1000 ft.) spool

COMPLIANCE

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

CABLE CONSTRUCTION

- 0.5mm (0.02 in.) 24 AWG bare copper conductors
- 1.02mm (0.04 in.) insulation diameter nominal

S110®/S210 Covers

The Siemon Company S110/S210 covers are available in 50- and 100-pair sizes (32- and 64-pair for S210). The cover easily snaps on and off wiring blocks and S110/S210 cable managers, and enhances the appearance of the S110/S210 installation. Removable icon tabs provide color-coding on the front for compliance with the ANSI/TIA/EIA-606-A administration standard.

Part #	Description
S110-CVR-50-(XX)	50-pair S110 cover/32-pair S210 cover
S110-CVR-100-(XX)	100-pair S110 cover/64-pair S210 cover

Use (XX) to specify color: 00 = clear, 01 = black, 20 = ivory

Clear covers protect connections yet allow full viewing of circuits and individual station ID's.

Wall Mount S110®/S210® Cable Managers

The Siemon S110/S210 cable managers are the foundation of a series of cable management products that are designed to support S110 or S210 cross-connects and patch panel applications. They can be ordered individually for field assembly in wall-mount applications. The cable managers are manufactured with high-strength, flame-retardant thermoplastic, and have been designed for easy cable insertion or withdrawal. The 2 RMS cable manager provides additional capacity for high-density patching applications. Siemon S110/S210 covers can be snapped on to provide color-coding and keep cables hidden.

Cable Managers Without Legs

S110B1RMS . . . . . .
1 RMS white cable manager without legs

S110B2RMS . . . . . .
2 RMS white cable manager without legs

S110B1RMS-01. . . . . .
1 RMS black cable manager without legs

S110B2RMS-01. . . . . .
2 RMS black cable manager without legs

Cable Managers With Legs

S110A1RMS . . . . . .
1 RMS white cable manager with legs

S110A2RMS . . . . . .
2 RMS white cable manager with legs

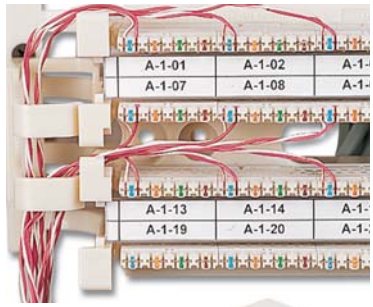
S110A1RMS-01. . . . . .
1 RMS black cable manager with legs

S110A2RMS-01. . . . . .
2 RMS black cable manager with legs

Note: 1 RMS = 44.5mm (1.75 in.)

S100A2 Wire Manager

The S100A2 wire manager snaps onto the legs of the S110 or S210 blocks/legs to provide a channel for routing cross-connect wire or patch cords. One S100A2 is designed to be used with each 100-/64-pair leg (2 for 200-/128-pair, 3 for 300-/192-pair) to allow space to access the wires. The S100A2 can also be mounted side-by-side. The outside edges are flared and tapered for smoother wire entry and exit and preventing damage to the conductor insulation.



Part #	Description
S100A2	Snap-on S110/S210 wire manager, white
S100A2-01.	Snap-on S110/S210 wire manager, black

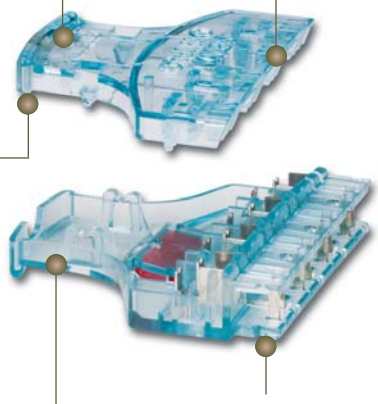
S210® Patch Plugs

The S210 patch plug utilizes 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 colors/positions visible to aid matching termination positions on the other end.

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

Proper Orientation — Directional arrow provided to assist in proper insertion orientation

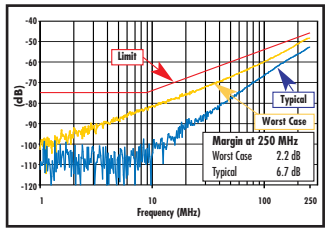
Tapered Lacing — Enable easy lacing of pairs for quick field termination



Ergonomic Handle — Aids insertion and removal of patch plug

Clear Housing — Durable, flame-retardant, clear thermoplastic housing keeps conductors visible during and after termination

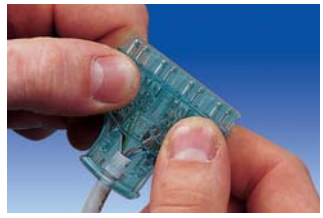
Polarization — Each plug housing includes polarization features to ensure proper orientation of the plug when connecting to the S210 block



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.

Technical Tip!
S210 to MC® 6 cable assemblies can be configured in the field. Siemon MC 6 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.

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



Easy Field Termination
Simply snap the base and cover together to mass terminate all conductors.

S210 Patch Plugs

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

The S210 cable assemblies utilize 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. Colored icons are available for color-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 (3 ft.), 05 = 1.5m (5 ft.), 07 = 2.1m (7 ft.), 10 = 3.1m (10 ft.), 15 = 4.6m (15 ft.), 20 = 6.1m (20 ft.)

Custom lengths available upon request. Contact our Customer Service Department for more information.

S210® to MC® 6 Cable Assemblies

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

Use 1st (XX) to specify cord length:
03 = 0.9m (3 ft.), 05 = 1.5m (5 ft.), 07 = 2.1m (7 ft.), 10 = 3.1m (10 ft.), 15 = 4.6m (15 ft.), 20 = 6.1m (20 ft.)
Use 2nd (XX) to specify color:
01 = black, 02 = white, 03 = red, 04 = gray, 05 = yellow, 06 = blue, 07 = green

S210 Designation Labels

Siemon S210 wiring blocks allow for designation labels to be mounted between each row of connecting blocks. S210 designation labels feature S210 listings on the side to clearly identify the termination type, 4-pair markings and can also be used for color-coding.

Part #	Description
S110-HLDR	Transparent plastic label holders, bag of 6
S210-LBL-2	4-pair S210 marked white labels, bag of 6

S110®/S210 Designation Label Sheets

Siemon's S110/S210 designation label sheets provide the ability to custom print labels used on S110 or S210 blocks.*The sheets can be used to print 2-, 3-, 4-, or 5-pair labels and eliminate the need to order separate sheets for different configurations. There are 20 labels per side and both sides are marked so they can be reversed and re-printed in case of an error.

Part #	Description
S110-SHT-(X)	S110/S210 Designation label sheets, package of 6

Use (X) to specify color: 2 = white, 3 = red, 4 = gray, 5 = yellow, 6 = blue, 7 = green, 8 = violet, 9 = orange, 60 = brown

*Visit our web site or contact our Technical Support Department for labeling software.

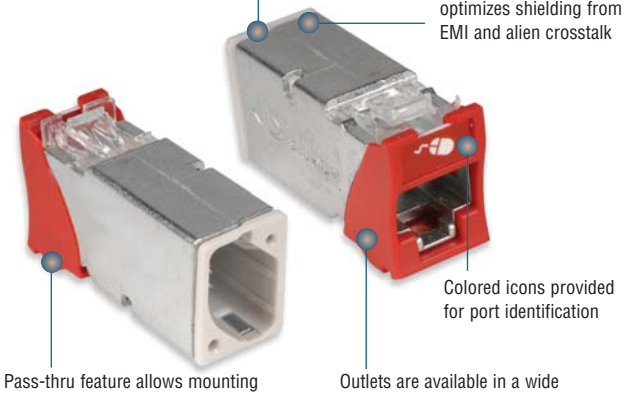
Category 5e Shielded

In addition to the excellent EMI resistance and signal security provided by its shielded construction, Siemon's end-to-end category 5e shielded system is guaranteed to deliver transmission performance margins in excess industry standards for category 5e. And thanks to the ultra-fast terminating Z-MAX® category 5e shielded outlets and Quick-Ground™ patch panels, deploying a high-performance, noise-resistant shielded system is every bit as fast and easy as UTP.

Section Contents

Z-MAX™ 5e Shielded Outlets

Combining exceptional category 5e performance with best-in-class termination time, the Z-MAX 5e shielded outlet is a vital part of an end-to-end Z-MAX 5e shielded cabling system. The Z-MAX module exceeds all applicable industry standards, including ANSI/TIA-568-C.2 and Amendments 1 and 2 of ISO/IEC 11801 2nd ed.



User Friendly
The ergonomic and easy-to-use Z-TOOL ensures a fast, low force termination

Flexibility and Simplified Ordering
Hybrid design allows the same outlet to be mounted in flat or angled orientations

STANDARDS COMPLIANCE

- ANSI/TIA-568-C.2
- ISO/IEC 11801 2nd ed Amendment 1
- ISO/IEC 11801 2nd ed Amendment 2
- IEEE 802.3an
- IEEE 802.3af (PoE)
- IEEE 802.3at (PoE+)
- IEC 60603-7
- TIA-968-A (formerly FCC Part 68 Subpart F)

Ordering Information:

Z5-S(X)(XX)(X) . . . . . Shielded Z-MAX category 5e outlet, T568A/B

Door Option
(Blank) = No Door
D = Spring Door (Hybrid only)

Mounting Style
(Blank) = Hybrid Flat/Angled
K = Keystone

Bezel Color

01= Black	**06=** Blue
02= White	**07=** Green
03= Red	**09=** Orange
04= Gray	**20=** Ivory
05= Yellow	**80=** Light Ivory

Hybrid | Keystone | Door

Outlet terminates S/FTP, F/FTP and F/UTP cable constructions with 22 – 26 AWG (0.64 – 0.51mm) solid and 26 AWG (0.48mm) stranded conductors, with up to 0.60mm diameter conductors and up to 1.48mm diameter over insulation.

Add "B" to end of part number for bulk project pack of 100 modules. (hybrid modules include icons.).

Front | Rear

1 - Red Data	1 - Red Voice
1 - Blue Data	1 - Blue Voice
1 - Bezel Color-matching Data	1 - Bezel Color–Matching Voice
1 - White Blank	1 - Bezel Color–Matching Blank

For more Z-MAX icon colors and options see page 9.5.

Z-MAX® 5e Shielded Patch Panels

Z-MAX 5e shielded patch panels provide unprecedented performance and reliability in a high-density modular solution. These complete patch panel kits combine 19 inch shielded patch panels with Z-MAX 5e shielded panel outlets to offer the industry's highest performing category 5e patching solution.

These panels also accelerate installation through quick-snap module insertion and automatic grounding of modules via an embedded grounding conductor. The panel allows one- or two-hole ground lug connections to rack on cabinet grounding system. This complete shielded solution provides maximum protection from outside interference and superior 5e performance.

Ordering Information:

Z5S-PNL(X)-24K .....24 Port, Z-MAX 5e shielded patch panel kit,1U, black
Z5S-PNL(X)-U48K.....48 Port, Z-MAX 5e shielded patch panel kit, 1U, black
ZS-PNL(X)-24E .....24 Port, Z-MAX shielded patch panel empty,1U, black
ZS-PNL(X)-U48E.....48 Port, Z-MAX shielded patch panel empty,1U, black

Use (X) to specify Mounting Style.
(Blank) = Flat
(A) = Angled

Panel Accessories

Z-PNL-PL24 .....Patch panel label sheet, numbered 1 to 24, bag of 100
Z-PNL-PL48 .....Patch panel label sheet, numbered 25 to 48, bag of 100
Z-PNL-P .....Patch panel label holder (6-port each), bag of 25
Z5-SP .....Z-MAX 5e shielded panel outlet

Note: Z-MAX shielded patch panels designed for use with Z-MAX shielded panel outlets only

Panels include Z-TOOL, label / icon holders, designation labels, cable ties, grounding lug and mounting hardware.*
Note: 1U = 44.5mm (1.75 in.)
** included in kit only*

TERA®-MAX® Patch Panels

Part #	Description
TM-PNLZ-24-01	24-port TERA-MAX panel, black, 1U
TM-PNLZ-24	24-port TERA-MAX panel, metallic, 1U
TM-PNLZA-24-01	24-port Angled TERA-MAX panel, black, 1U
TM-PNLZA-24	24-port Angled TERA-MAX panel, metallic, 1U

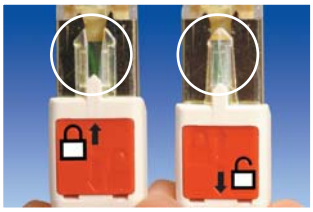
Note: TERA-MAX panels are designed for use with hybrid (flat/angled) shielded Z-MAX outlets. Also compatible with TERA outlets

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

BladePatch™ 5e Shielded Modular Cords

Siemon's category 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 blade servers, patch panels, or any equipment with high density RJ-45 outlets.

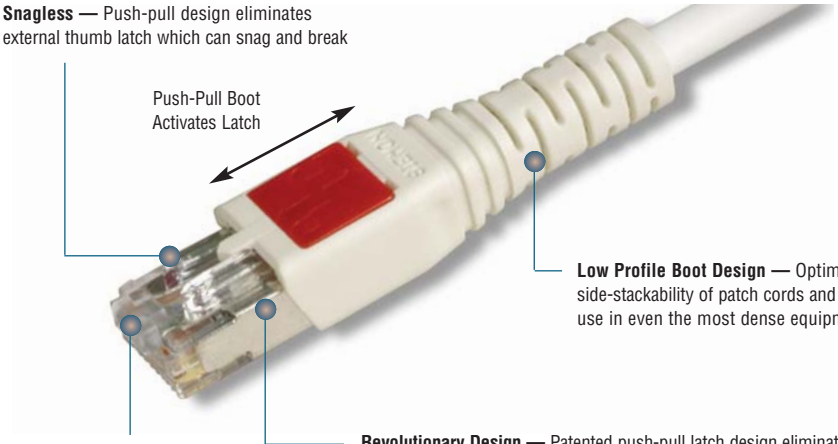
Universal Compatibility
Fits within any standard RJ-45 outlet.



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.

Snagless — Push-pull design eliminates external thumb latch which can snag and break



Low Profile Boot Design — Optimizes side-stackability of patch cords and allows use in even the most dense equipment

Universal Wiring — Compatible with T568A/B wiring schemes

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

Ordering Information:

Category 5e shielded bladepatch, double-ended modular patch cord with push-pull latching design, color matching cord/boot, T568A/B, LSOH

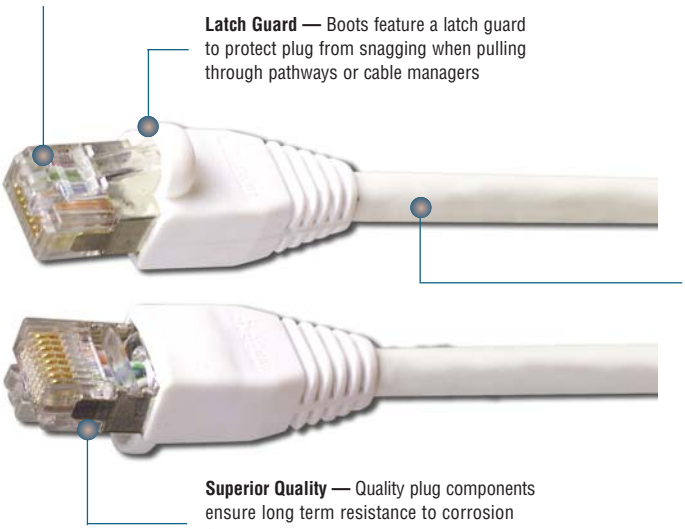
BP5S-(XX)M-(XX)

Cord Length:	Cord Color:		
03 = 0.9m (3 ft.)	**01** = Black	**04** = Gray	**07** = Green
05 = 1.5m (5 ft.)	**02** = White	**05** = Yellow	**08** = Violet
07 = 2.1m (7 ft.)	**03** = Red	**06** = Blue	**07** = Orange
10 = 3.1m (10 ft.)			
15 = 4.6m (15 ft.)			
20 = 6.1m (20 ft.)			

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

MC 5e Shielded Modular Cords

Siemon's shielded MC 5e modular cords are manufactured using stranded shielded 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 colored strain-relief boots and are available in a wide range of lengths.



Universal Wiring — Compatible with T568A/B wiring schemes

Latch Guard — Boots feature a latch guard to protect plug from snagging when pulling through pathways or cable managers

Color Options — Variety of color options available for circuit identification

Superior Quality — Quality plug components ensure long term resistance to corrosion from humidity, extreme temperatures, and airborne contaminants

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
- LSOH Cordage: IEC 60332-1, IEC 60754, and IEC 61034 compliant

Excellent Bend Relief
Boot ensures proper bend relief.

Ordering Information:

Category 5e shielded MC, double-ended 4-pair stranded modular cord, color matching jacket/boot, T568A/B, LSOH

MC5S-(XX)M-(XX)L

Cord Length:

03 = 0.9m (3 ft.)
05 = 1.5m (5 ft.)
07 = 2.1m (7 ft.)
10 = 3.1m (10 ft.)
15 = 4.6m (15 ft.)
20 = 6.1m (20 ft.)

Cord Color:

01 = Black	**04** = Gray	**07** = Green
02 = White	**05** = Yellow	**08** = Violet
03 = Red	**06** = Blue	**07** = Orange

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

Solution 5e™ F/UTP 4-Pair Cable (US)

COMPLIANCE

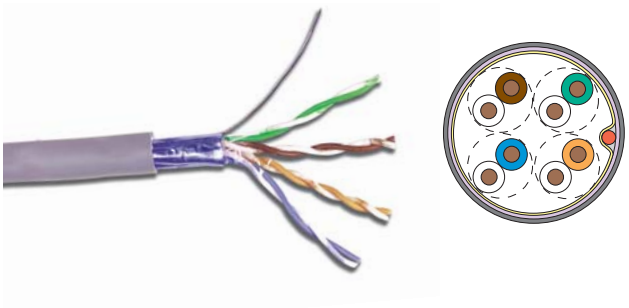
- ISO/IEC 11801:2002 (Category 5e)
- TIA-568-C.2 (Category 5e)
- IEC 61156-5:2002 (Category 5e)
- UL CMR and CSA FT4

CABLE CONSTRUCTION

- F/UTP
- 0.5mm (0.02 in.) (24 AWG) solid bare copper
- 7.4mm (0.29 in.) max jacket diameter
- Shield is an aluminum foil enclosing a 0.5mm (0.02 in.) (24 AWG) tinned copper drain wire

Part #	Description
9A5R4-E1-(XX)-R1A	Riser (CMR, CSA FT4) 305m (1000 ft.), Reel

Use (XX) to specify jacket color: 01 = black, 02 = white, 03 = red, 04 = gray, 05 = yellow, 06 = blue, 07 = green, 08 = violet, 09 = orange



ELECTRICAL SPECIFICATIONS

DC Resistance	<9.38Ω/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 - 160 MHz: 100 ± 20% 160-350 MHz: 100 ± 22%
NVP	CMP - 70% CMR - 68%
TCL	40-10 log(*f*) dB
Delay Screw	≤40ns

PHYSICAL PROPERTIES

	CMR
Pulling Tension (max)	110N (25 lbf)
Bend Radius (min)	25mm (1.0 in.)
Installation Temperature	0 to 60°C (+32 to 140°F)
Storage Temperature	-20 to 60°C (-4 to 140°F)
Operating Temperature	-20 to 60°C (-4 to 140°F)

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	2.1	65.3	68.3	62.3	66.3	63.2	66.2	60.2	64.2	63.8	67.8	60.8	65.8	20.0	20.0	570	550
4.0	4.1	4.1	59.3	56.3	53.3	57.3	52.2	55.2	49.2	53.2	51.8	55.7	48.8	53.7	23.0	23.3	552	532
10.0	6.5	6.5	53.3	50.3	47.3	51.3	43.8	46.9	40.8	44.9	43.8	47.8	40.8	45.8	25.0	25.5	545	525
16.0	8.3	8.2	50.3	47.2	44.2	48.3	39.0	42.1	36.0	40.1	39.7	43.7	36.7	41.7	25.0	25.5	543	523
20.0	9.3	9.2	48.8	45.8	42.8	46.8	36.5	39.6	33.5	37.6	37.8	41.7	34.8	39.7	25.0	25.5	542	522
31.25	11.7	11.5	45.9	42.9	39.9	43.9	31.1	34.4	28.1	32.4	33.9	37.9	30.9	35.9	23.6	24.4	540	520
62.5	17.0	16.4	41.4	38.4	35.4	39.4	21.4	24.9	18.4	22.9	27.9	31.8	24.9	29.8	21.5	22.7	539	519
100.0	22.0	21.0	38.3	35.3	32.3	36.3	13.3	17.3	10.3	15.3	23.8	44.8	20.8	25.8	20.1	21.5	538	518
160.0*	28.6	26.8	35.3	32.2	29.2	33.3	3.7	8.4	0.7	6.4	19.7	23.7	16.7	21.7	18.7	20.4	537	517
200.0*	32.4	30.2	33.8	30.8	27.8	31.8	-1.6	3.6	-4.6	1.6	17.8	21.7	14.8	19.7	18.0	19.8	536	517
250.0*	36.9	34.0	32.3	29.3	26.3	30.3	-7.5	-1.6	-10.5	-3.6	15.8	19.8	12.8	17.8	17.3	19.2	536	516
300.0*	41.0	37.4	31.2	28.1	25.1	29.2	-12.8	-6.3	-15.8	-8.3	14.3	18.2	11.3	16.2	16.8	18.8	536	516
350.0*	44.9	40.7	30.2	27.1	24.1	28.2	-17.7	-10.5	-20.7	-12.5	12.9	16.9	9.9	14.9	16.3	18.4	536	516

**Values above industry requirements are for information only.*

All performance based on 100 meters (328 ft.).

Premium 5e® UTP and Solution 5e™ UTP

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.

All components are approved for use in a Premium 5e channel unless otherwise indicated. Only Premium 5e components are eligible for use in a Premium 5e channel.

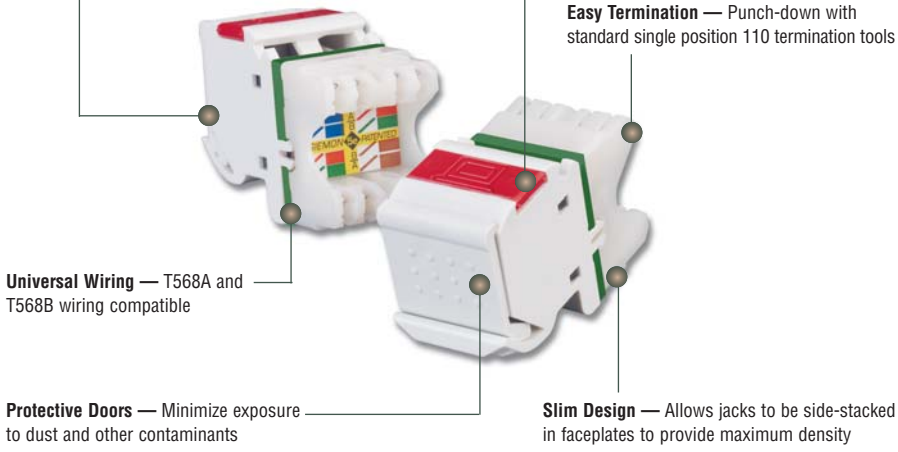
Siemon's Solution 5e UTP solution is designed for 100 MHz category 5e/class D installations in which additional performance margins provided by the Premium 5e solution are not required.

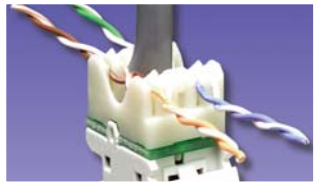
Components specifically designed for use in a Solution 5e channels are indicated by product title. Both Solution 5e and Premium 5e components are eligible for use in a Solution 5e channel.

Section Contents

MAX® 5e UTP Modules

MAX 5e modules exceed category 5e performance with component and channel performance to 160 MHz. These modules offer all the functional advantages of our MAX 6 modules in a variety of color options. All modules utilize our S310 punch-down block — making termination quick and easy.





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 MC or BladePatch 5e modular cords to perfectly match performance of 5e MAX modules.

MX5-(XX). . . . . .
Angled MAX module, T568A/B, rear strain relief cap and protective color-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 color: 01 = black, 02 = white, 03 = red, 04 = gray, 05 = yellow, 06 = blue, 07 = green, 09 = orange, 20 = ivory, 25 = bright white, 80 = light ivory

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

Flat modules include one color-matching, one red, and one blue icon.

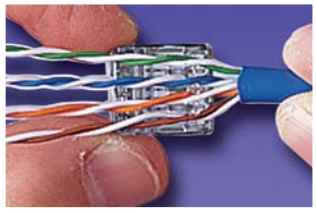
Ⓑ *Add "B" to end of part number for bulk project pack of 100 modules (angled and flat modules include icons).*

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

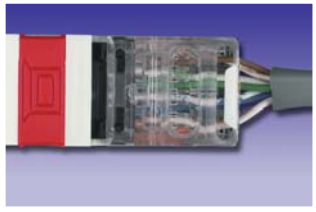
Solution 5e™ UTP Tool-Less MAX® Modules

The tool-less MAX module provides category 5e system performance and user-friendly installation features. Our tool-less termination allows all eight conductors to be terminated simultaneously when the termination cap is pressed into place. The compact size provides high-density connectivity in the work area and telecommunications room.

Press-Fit Termination
Mass terminate all eight conductors by hand or use a single-position S110® termination tool in the MAX termination cap.



Quick-Pair Placement
Conductors can be sequentially placed into termination cap, minimizing cable pair untwist and simplifying termination.

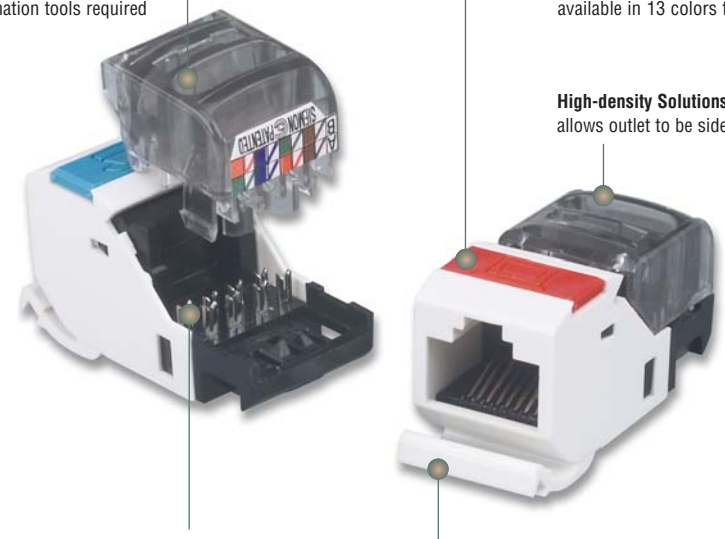


Verify Proper Wiring
The termination cap has a large window for viewing terminations.

Easy Termination — No termination tools required

Quick Identification — Icon tabs available in 13 colors for color-coding

High-density Solutions — Slim design allows outlet to be side-stackable



Proven Performance — Patented multi-planar pair balancing technology provides category 5e system performance

Easy Installation — Flexible mounting tab allows installation from front or rear of faceplate and secures module into the faceplate

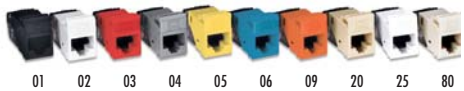
MX-C5-(XX) . . . . . .
Angled module,
T568A/B

MX-F-C5-(XX) . . . . . .
Flat module,
T568A/B

MX-K-C5-(XX) . . . . . .
Keystone module,
T568A/B

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

Use (XX) to specify color: 01 = black, 02 = white, 03 = red, 04 = gray, 05 = yellow, 06 = blue, 09 = orange, 20 = ivory, 25 = bright white, 80 = light ivory
Add "-D" for optional door for angled and flat versions.
Door color is white for red, yellow, blue, and orange flat modules; clear for angled.
(B) Add "B" to end of part number for bulk project pack of 100 modules.
Flat and Keystone modules include one color-matching, one red, and one blue icon.



SIEMON™

CT® 5e UTP Couplers

Angled Couplers

CT-C5-C5-(XX) . . . . . .
Angled, double coupler,
universal T568A/B

CT-C5-(XX) . . . . . .
Angled, single coupler,
universal T568A/B

Use (XX) to specify color: 01 = black, 02 = white,
04 = gray, 20 = ivory, 80 = light ivory
Add "-D" for spring door option.

Flat Couplers

CT-F-C5-C5-(XX) . . . . . .
Flat, double coupler,
universal T568A/B

CT-F-C5-(XX) . . . . . .
Flat, single coupler,
universal T568A/B

Use (XX) to specify color: 01 = black, 02 = white,
04 = gray, 20 = ivory, 80 = light ivory

Technical Tip!
Angled couplers are recommended for work area applications and flat couplers are recommended for patch panel applications.

Ⓑ *Add "B" to end of part number for bulk project pack of 100 couplers.*
(Bulk option includes couplers and icons only — termination caps and cable ties are available separately.)
Couplers include one color-matching icon (clear for black), 2 termination caps, and one cable tie per port, plus one red and one blue icon.

HD® 5e UTP Patch Panels

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

Aesthetics — Front surface is uninterrupted by screw heads for a clean appearance

Universal Wiring — HD 5e patch panels feature universal wiring for both T568A/B

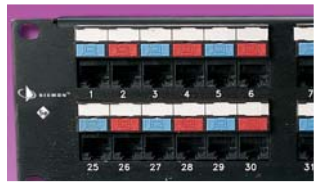
Port Identification — Bold port numbering enables quick identification of outlets

Standard Fit — Panels can be mounted directly on standard 19 inch relay rack or cabinet

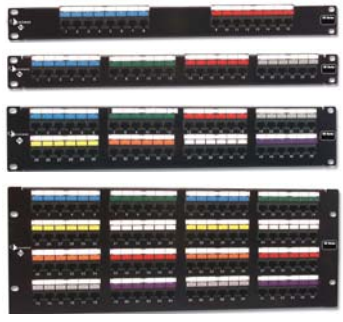
Installer Friendly — Panels available in 16-, 24-, 48- and 96-port configurations

Compliant Pin Technology
Allows the use of Siemon's multi-pair impact tool to significantly reduce termination time. S110 termination openings 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.



Ordering Information:

HD 5e UTP Patch Panels

Part #	Description
HD5-16	16-port category 5e UTP HD patch panel, T568A/B, 1U
HD5-24	24-port category 5e UTP HD patch panel, T568A/B, 1U
HD5-32	32-port category 5e UTP HD patch panel, T568A/B, 2U
HD5-48	48-port category 5e UTP HD patch panel, T568A/B, 2U
HD5-96	96-port category 5e UTP HD patch panel, T568A/B, 4U

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: 1U = 44.5mm (1.75 in.)

S310 termination blocks on 16- and 32-port HD 5e panels are not compatible with S110 multi-pair termination tools.

HD® 5e UTP Patch Panel on S89D Bracket

Part #	Description
HD5-89D-12	12-port category 5e UTP panel, T568A/B, mounted on S89D bracket *height: 254.0mm (10.0 in.),* *width: 85.9mm (3.38 in.),* *depth: 47.8mm (1.88 in.)*

HD5 Quick-Patch™ Panel*

Siemon's HD5 Quick-Patch panel provides a quick and easy category 5 channel patching solution for 10/100BASE-T hubs with 25-pair connectors. The HD5 Quick-Patch Panel incorporates many user-friendly features and benefits, including rear connectors that are staggered to enable easy routing of 25-pair cable to the connection point and a rear metal enclosure that protects printed circuitry. The black anodized panel can be mounted directly to a standard 19 inch rack or cabinet with the mounting hardware included. Icon/label holders and designation labels included.

Part #	Description
HD5-QP-48	48-port 10/100BASE-T panel (Active pins 1, 2, 3 & 6 only), four 25-pair connectors (female), 2 RMS

Panel includes icon/label holders, designation labels, and mounting hardware.
Note: 1 RMS = 44.5mm (1.75 in.)
**Not eligible for Premium 5e or Solution 5e warranty*

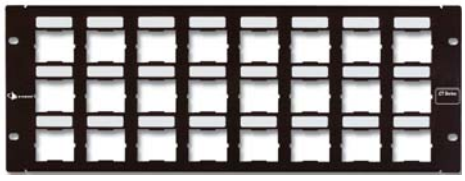
CT® Patch Panels

Oversized CT Panels

Oversized CT panels are available for applications that require additional labeling space. They provide the same flexibility as our standard CT panels and feature a write-on designation surface above each coupler opening that may also be used as a space for adhering your own label. Siemon offers adhesive-backed label holders with replaceable write-on labels that mount above the entire row of CT couplers.

Part #	Description*	RMS	Maximum Quantity of CT Couplers
CT-PNL-24-ID	24-port panel	3	12

Part #	Description*	RMS	Maximum Quantity of CT Couplers
CT-PNL-48-ID	48-port panel	4	24



**Number of ports when configured with two-port CT couplers.*
Note: 1 RMS = 44.5mm (1.75 in.)

CT Patch Panels

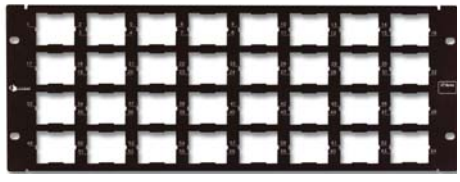
Part #	Description*	RMS	Maximum Quantity of CT Couplers
CT-PNL-16	16-port panel	1	8

Part #	Description*	RMS	Maximum Quantity of CT Couplers
CT-PNL-24	24-port panel	2	12

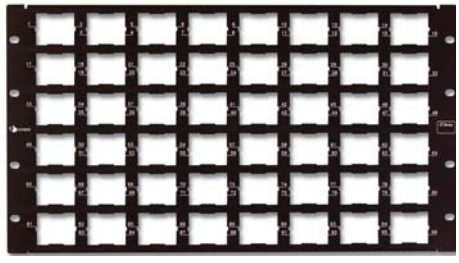
Part #	Description*	RMS	Maximum Quantity of CT Couplers
CT-PNL-32	32-port panel	2	16

Part #	Description*	RMS	Maximum Quantity of CT Couplers
CT-PNL-48	48-port panel	3	24

Part #	Description*	RMS	Maximum Quantity of CT Couplers
CT-PNL-64	64-port panel	4	32



Part #	Description*	RMS	Maximum Quantity of CT Couplers
CT-PNL-96	96-port panel	6	48



**Number of ports when configured with two-port CT couplers.*
Note: 1 RMS = 44.5mm (1.75 in.)

MAX® UTP Patch Panels

MAX UTP Patch Panels

Part #	Description
MX-PNL-16	16-port MAX patch panel, 1U

Part #	Description
MX-PNL-48	48-port MAX patch panel, 2U

Part #	Description
MX-PNL-24	24-port MAX patch panel, 1U

Part #	Description
MX-PNL-72	72-port MAX patch panel, 2U

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

Note: 1U = 44.5mm (1.75 in.)

Angled Max UTP 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
MX-PNLA-24	24-port angled MAX UTP patch panel, 1U

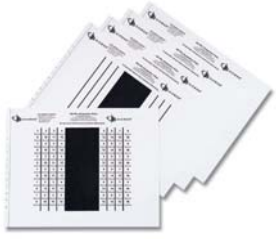
Part #	Description
MX-PNLA-48	48-port angled MAX UTP patch panel, 2U

Angled MAX panels are not compatible with shielded Z-MAX or TERA modules. Use the angled TERA-MAX or Z-MAX shielded panel.
Angled MAX panels are not recommended for use with RS3 rack series. RS series racks are recommended.
Panels include mounting hardware. Rear cable manager not included.
Note: 1U = 44.5mm (1.75 in.)

Optional Accessories

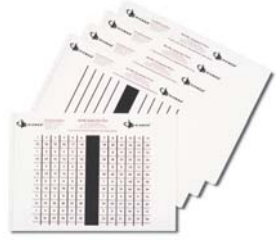
MX-PNL-LBL4* . . . . . .

10 sheets of laser printable labels for 16-port MAX panels



MX-PNL-LBL6* . . . . . .

10 sheets of laser printable labels for 24- and 48-port MAX panels



*Visit our web site or contact our Technical Support Department for labeling software.

MC® 5e UTP 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.

Bend Fatigue — 24 AWG (7 strands @ 0.20mm) stranded wire for longer bend fatigue life

High Performance — MC 5e cords are constructed using high performance Siemon category 5e cable

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

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

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

Ordering Information:

MC5-8T-(XX)-B(XX)C . . . . . .Category 5e UTP MC double-ended, 4-pair stranded modular cord, color matching jacket/boot, T568A/B, CMG

Cord Length:
03 = 0.9m (3 ft.)
05 = 1.5m (5 ft.)
07 = 2.1m (7 ft.)
10 = 3.1m (10 ft.)
15 = 4.6m (15 ft.)
20 = 6.1m (20 ft.)

Cord Color:
01 = Black
02 = White
03 = Red
04 = Gray
05 = Yellow
06 = Blue
07 = Green

MC5-8-T-(XX)-(XX) . . . . . .Category 5e UTP MC double-ended, 4-pair stranded modular cord, no boot, T568A/B, CMG

Cord Length:
03 = 0.9m (3 ft.)
05 = 1.5m (5 ft.)
07 = 2.1m (7 ft.)
10 = 3.1m (10 ft.)
15 = 4.6m (15 ft.)
20 = 6.1m (20 ft.)

Cord Color:
01 = Black
02 = White
03 = Red
04 = Gray
05 = Yellow
06 = Blue
07 = Green

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

IC 5e Solid UTP Single-Ended Modular Cords

Siemon's solid, single-ended IC5e 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.

IC5-8(X)-(XX)(X) . . . . . .Category 5e IC, single-ended UTP solid cord blue jacket, no boot

Wiring:
A = T568B
T = T568A

Jacket Rating
R = Riser
P = Plenum

Length
10 = 3.1m (10 ft.)
20 = 6.1m (20 ft.)
30 = 9.1m (30 ft.)
40 = 12.2m (40 ft.)
50 = 15.2m (50 ft.)
60 = 18.3m (60 ft.)

IC5-8(X)-(XX)-B(XX)(X) . . . . . .Category 5e IC, single-ended UTP solid cord blue jacket with colored boot

Wiring:
A = T568B
T = T568A

Jacket Rating
R = Riser
P = Plenum

Length
10 = 3.1m (10 ft.)
20 = 6.1m (20 ft.)
30 = 9.1m (30 ft.)
40 = 12.2m (40 ft.)
50 = 15.2m (50 ft.)
60 = 18.3m (60 ft.)

Boot Coloring
01 = Black
02 = White
03 = Red
04 = Gray
05 = Yellow
06 = Blue
07 = Green

Premium 5e® UTP 4-Pair Cable (US)

COMPLIANCE

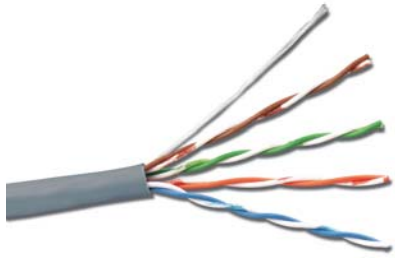
- ISO/IEC 11801:2002 (Category 5e)
- TIA568-C.2 (Category 5e)
- IEC 61156-5 (Category 5e)
- UL CMP and CSA FT6
- UL CMR and CSA FT4

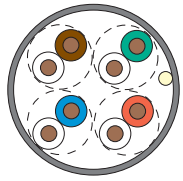
CABLE CONSTRUCTION

- UTP
- 0.51mm (0.020 in.) (24 AWG) solid bare copper
- 4.9mm (0.194 in.) max jacket diameter

Part #	Description
9C5P4-E2-(XX)-RXA	Plenum (CMP, CSA FT6) 305m (1000 ft.), Reelex
9C5R4-E2-(XX)-RXA	Riser (CMR, CSA FT4) 305m (1000 ft.), Reelex

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





ELECTRICAL SPECIFICATIONS

DC Resistance	<9.38Ω/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%
TCL	40-10 x log(*f*) dB
Delay Screw	≤35ns

PHYSICAL PROPERTIES

	CMP	CMR
Pulling Tension (max)	110N (25 lbf)	110N (25 lbf)
Bend Radius (min)	20 mm (0.8 in.)	20mm (0.8 in.)
Installation Temperature	0 to 60°C (+32 to 140°F)	0 to 60°C (+32 to 140°F)
Storage Temperature	-20 to 75°C (-4 to 167°F)	-20 to 75°C (-4 to 167°F)
Operating Temperature	-20 to 60°C (-4 to 140°F)	-20 to 60°C (-4 to 140°F)

TRANSMISSION PERFORMANCE

GUARANTEED WORSE 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
300.0*	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 industry requirements are for information only.*

All performance based on 100 meters (328 ft.).

Solution 5e™ UTP 4-Pair Cable (US)

COMPLIANCE

- ISO/IEC 11801:2002 (Category 5e)
- TIA568-C.2 (Category 5e)
- IEC 61156-5 (Category 5e)
- UL CMP and CSA FT6

CABLE CONSTRUCTION

- UTP
- 0.51mm (0.020 in.) (24 AWG) solid bare copper
- 4.6mm (0.180 in.) max jacket diameter

Part # **Description**

9C5P4-E1-(XX)-RXA . . . . . Plenum (1000 ft.), Reelex

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

ELECTRICAL SPECIFICATIONS

DC Resistance	<9.38Ω/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 Screw	≤45ns

PHYSICAL PROPERTIES

	CMP	CMR
Pulling Tension (max)	110N (25 lbf)	110N (25 lbf)
Bend Radius (min)	25 mm (1 in.)	25mm (1 in.)
Installation Temperature	0 to 60°C (+32 to 140°F)	0 to 60°C (+32 to 140°F)
Storage Temperature	-20 to 75°C (-4 to 167°F)	-20 to 75°C (-4 to 167°F)
Operating Temperature	-20 to 60°C (-4 to 140°F)	-20 to 60°C (-4 to 140°F)

TRANSMISSION PERFORMANCE

GUARANTEED WORSE CASE SIEMON TYPICAL

Frequency (MHz)	Insertion Loss (dB/100m)		NEXT (dB)		PS NEXT (dB)		ACR-N (dB)		PS ACR-N (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0	2.0	2.0	65.3	79.8	62.3	78.2	63.3	77.8	64.2	76.2	63.8	69.4	60.8	69.0	20.0	27.4	570	545
4.0	4.1	3.9	56.3	78.0	53.3	74.5	52.2	74.1	53.2	70.5	51.8	57.8	48.8	57.5	23.0	32.9	552	527
10.0	6.5	6.2	50.3	68.7	47.3	65.4	43.8	62.4	44.9	59.5	43.8	50.1	40.8	49.7	25.0	31.6	545	520
16.0	8.2	7.9	47.2	64.5	44.2	62.9	39.0	56.5	40.1	55.0	39.7	46.0	36.7	45.4	25.0	31.7	543	518
20.0	9.3	8.9	45.8	63.3	42.8	60.9	36.5	54.4	37.6	52.0	37.8	44.1	34.8	43.,4	25.0	32.2	542	517
31.25	11.7	11.2	42.9	59.4	39.9	57.5	31.2	48.2	32.4	46.4	33.9	40.4	30.9	39.5	23.6	33.3	540	515
62.5	17.0	16.0	38.4	50.6	35.4	49.4	21.4	34.6	22.9	33.4	27.9	34.6	24.9	33.7	21.5	28.1	539	514
100.0	22.0	20.5	35.3	48.0	32.3	46.8	13.3	27.5	15.3	26.3	23.8	31.8	20.8	31.3	20.1	25.0	538	513
160.0*	-	26.4	-	48.5	-	46.6	-	22.1	-	20.2	-	30.0	-	29.5	-	22.3	-	512
200.0*	-	29.6	-	42.9	-	41.8	-	13.3	-	12.2	-	29.6	-	29.2	-	19.8	-	512
250.0*	-	33.4	-	44.8	-	43.1	-	11.4	-	9.7	-	31.2	-	30.9	-	20.8	-	511
300.0*	-	36.9	-	38.9	-	38.7	-	2.0	-	1.8	-	33.7	-	31.1	-	18.5	-	511
350.0*	-	40.2	-	41.8	-	40.7	-	1.6	-	0.5	-	34.7	-	31.3	-	20.2	-	511

**Values above industry requirements are for information only.*

All performance based on 100 meters (328 ft.).

Category 5e Cross-Connect Wire

Siemon's cross-connect wire utilizes 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 colors blue/orange, 305m (1,000 ft.) spool
CJ5-W2-1000-07	Category 5e, 2-pair 24 AWG (0.51mm) webbed cross-connect wire, pair colors orange/green, 305m (1,000 ft.) spool
CJ5-W1-1000-03	Category 5e, 1-pair 24 AWG (0.51mm) webbed cross-connect wire with red/white conductors, 305m (1,000 ft.) spool
CJ5-W1-1000-06	Category 5e, 1-pair 24 AWG (0.51mm) webbed cross-connect wire with blue/white conductors, 305m (1,000 ft.) spool

S110® Connecting Block System

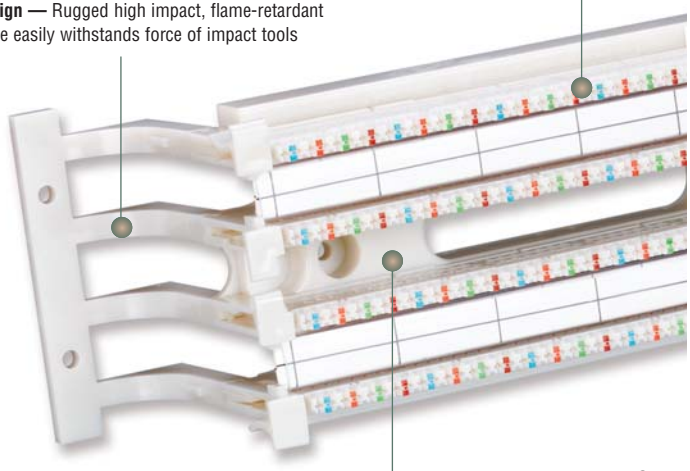
Siemon's S110 connecting block systems and accessories combine category 5e performance with user-friendly installation features.

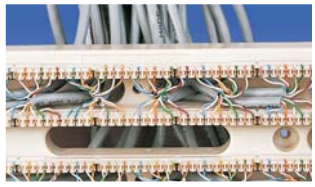
- **Multi-application support — Ideal for use in cross-connect and consolidation point applications**
- **Durable design — Rugged high impact, flame-retardant polycarbonate easily withstands force of impact tools**
- **Full line — Complete system includes field terminated and pre-wired blocks, connecting blocks, patch cords, cable managers and more.**

Section Contents

S110® Connection System

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.





Patented Cable Access Openings
Allow cables to be routed through the rear of the block directly to the point of termination.

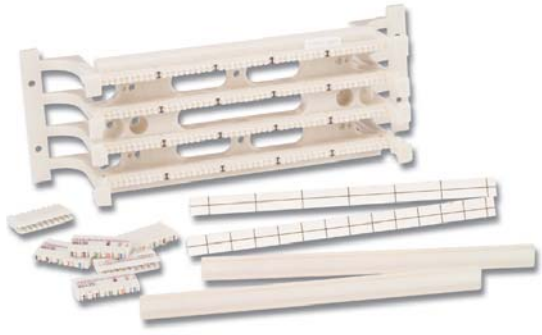
Detachable Blocks
Another patented Siemon innovation allows 50- and 100-pair wiring blocks to be detached from their mounting legs providing easy access to cables.

Labeling
Designation strips with interchangeable colored labels can be mounted in the center and/or outside positions.

S110 Field Termination Kits

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 (1.80 in.),* *width: 272mm (10.71 in.),* *depth: 82.8mm (3.26 in.)*
S110A(X)2-100FT	100-pair S110 field termination kit *height: 91.4mm (3.60 in.),* *width: 272mm (10.71 in.),* *depth: 82.8mm (3.26 in.)*
S110A(X)2-300FT*	300-pair S110 field termination kit *height: 274mm (10.80 in.),* *width: 272mm (10.71 in.),* *depth: 82.8mm (3.26 in.)*



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

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

S110® Connecting Blocks

Siemon category 5e S110C blocks terminate 22-26 AWG (0.64mm-0.40mm) solid or 7-strand wires. They also offer markings to designate tip and ring conductors and color-coded pairs on each block and a patented single-piece, robust construction.

S110C-4. . . . . .
4-pair connecting block,
blue/orange/green/brown

S110C-5. . . . . .
5-pair connecting block,
blue/orange/green/ brown/slate

S110 Wiring Blocks

Wiring Blocks With Legs

S110AW1-50 . . . . . .
50-pair, 110 wiring block with legs
height: 45.7mm (1.80 in.),
width: 272mm (10.71 in.),
depth: 82.8mm (3.26 in.)

S110AW2-100 . . . . . .
100-pair, 110 wiring block with legs
height: 91.4mm (3.60 in.),
width: 272mm (10.71 in.),
depth: 82.8mm (3.26 in.)

S110AW2-200 . . . . . .
200-pair, 110 wiring block with legs
height: 182.9mm (7.20 in.),
width: 272mm (10.71 in.),
depth: 82.8mm (3.26 in.)

S110AW2-300 . . . . . .
300-pair, 110 wiring block with legs
height: 274.3mm (10.80 in.),
width: 272mm (10.71 in.),
depth: 82.8mm (3.26 in.)

Wiring Blocks Without Legs

S110DW1-25 . . . . . .
25-pair, 110 wiring block without legs
height: 16.0mm (0.63 in.),
width: 216mm (8.50 in.),
depth: 35.8mm (1.41 in.)

S110DW1-50 . . . . . .
50-pair, 110 wiring block without legs
height: 42.4mm (1.67 in.),
width: 216mm (8.50 in.),
depth: 35.8mm (1.41 in.)

S110DW2-100 . . . . . .
100-pair, 110 wiring block without legs
height: 88.1mm (3.47 in.),
width: 216mm (8.50 in.),
depth: 35.8mm (1.41 in.)

Vertically Mounted S110 Blocks

This 50-pair S110 block can be mounted on the same S89B or S89D brackets that hold our S66™ blocks. The wiring base is available separately or as part of a field-terminated kit that includes the 4- or 5-pair connecting blocks and designation strips.

Part #	Description
S110DW1-50-89	50-pair S110 wiring base on an 89-type retainer.* S110 connecting blocks are not included *height: 254.0mm (10.0 in.),* *width: 85.9mm (3.4 in.),* *depth: 86.6mm (3.4 in.)* *(dimensions include S89 bracket)*
S110D(X)1-50FT-89.	50-pair S110 field termination kit on an 89-type retainer.* Includes S110 connecting blocks and designation strips *height: 254.0mm (10.0 in.),* *width: 85.9mm (3.4 in.),* *depth: 86.6mm (3.4 in.)* *(dimensions include S89 bracket)*

Shown with optional
S89D bracket

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

**S89 brackets are not included and must be ordered separately .*

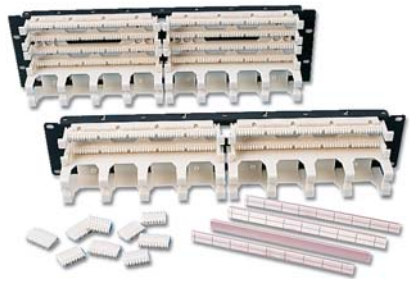
S110® 19 Inch Field Termination Panels

S110 panels allow wiring blocks to be mounted directly to a 19 inch CEA 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
S110D(X)1-100RFT	100-pair, 19 inch panel, S110 field termination kit, 1U
S110D(X)1-200RFT	200-pair, 19 inch panel, S110 field termination kit, 2U
S110D(X)1-300RFT	300-pair, 19 inch panel, S110 field termination kit, 3U

Use (X) to specify connecting block size: A = 5-pair, B = 4-pair
Note: 1U = 44.5mm (1.75 in.)

Field Terminated S110 19 Inch Panels with Cable Managers



Part #	Description	RMS
S110D(X)2-100RWM	100-pair, 19 inch panel, S110 field termination kit with cable managers and covers	2
S110D(X)2-200RWM	200-pair, 19 inch panel, S110 field termination kit with cable managers and covers	3

Use (X) to specify the connecting blocks: A = 5-pair, B = 4-pair
Note: 1 RMS = 44.5mm (1.75 in.)

S110 Designation Labels

Siemon S110 wiring blocks allow designation labels to be mounted between each row of connecting blocks. Each label has 2-, 3-, 4-, and 5-pair markings and may be used for color-coding services in accordance with TIA/EIA-606-A.

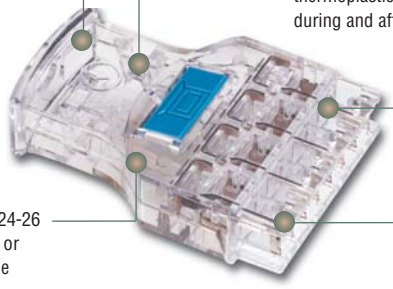
Part #	Description
S110-HLDR	Transparent plastic label holders, bag of 6
S110-LBL-(X)	2-, 3-, 4-, and 5-pair marked colored labels, bag of 6

Use (X) to specify color: 2 = white, 3 = red, 4 = gray, 5 = yellow, 6 = blue, 7 = green, 8 = violet, 9 = orange, 60 = brown

S110® Patch Plugs and Cable Assemblies

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 category 5e transmission requirements.



Ergonomic Handle — Aids insertion and removal of patch plug

Clear Housing — Durable, flame-retardant, clear thermoplastic housing keeps conductors visible during and after termination

Easy Termination — Simply snap the base and cover together to mass terminate all conductors

Field Installable — Terminates 24-26 AWG (0.40mm-0.51mm) solid or 7-strand twisted-pair UTP cable

Polarization — Each plug housing includes polarization features to ensure proper tip-ring orientation during connection

S110P4 . . . . . .
4-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.*
Colored icons are available for color-coding 4-pair S110 plugs (sold separately)

S110 Cable Assemblies

The S110 cable assemblies utilize 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. Colored icons are available for color-coding 4-pair 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 (3 ft.), 05 = 1.5m (5 ft.), 07 = 2.13m (7 ft.), 10 = 3.05m (10 ft.), 15 = 4.57m (15 ft.), 20 = 6.10m (20 ft.)

S110 to MC® Cable Assemblies

The S110 to modular cable assemblies combine Siemon's high performance modular 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 or lower systems.

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

Use 1st (XX) to specify length: 03 = 0.91m (3 ft.), 05 = 1.5m (5 ft.), 07 = 2.13m (7 ft.), 10 = 3.05m (10 ft.), 15 = 4.57m (15 ft.), 20 = 6.10m (20 ft.)

S110® Tower Kits

S110 Tower Field Termination Kits

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 (16 in.), width: 215.9mm (8.5 in.), depth: 152.6mm (6 in.)
S110M(X)2-400FT	400-pair S110 Tower field termination kit height: 541.3mm (21.3 in.), width: 215.9mm (8.5 in.), depth: 152.6mm (6 in.)
S110M(X)2-500FT	500-pair S110 Tower field termination kit height: 676.1mm (26.6 in.), width: 215.9mm (8.5 in.), depth: 152.6mm (6 in.)

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

S110 Tower Optional Accessories

S188-300

Large-scale vertical cable manager for use with 300-pair Tower
height: 406.4mm (16.0 in.),
width: 215.9mm (8.5 in.),
depth: 190.5mm (7.5 in.)

S110M-WM-300

Small-scale vertical cable manager for use with 300-pair Tower
height: 406.0mm (16.0 in.),
width: 76.2mm (3.0 in.),
depth: 153.0mm (6.1 in.)

Tower with S188

S188-400

Large-scale vertical cable manager for use with 400-pair Tower
height: 541.3mm (21.3 in.),
width: 215.9mm (8.5 in.),
depth: 190.5mm (7.5 in.)

S110M-WM-400

Small-scale vertical cable manager for use with 400-pair Tower
height: 541.2mm (21.3 in.),
width: 76.2mm (3.0 in.),
depth: 153.0mm (6.1 in.)

S188

S188-500

Large-scale vertical cable manager for use with 500-pair Tower
height: 676.1mm (26.6 in.),
width: 215.9mm (8.5 in.),
depth: 190.5mm (7.5 in.)

S110M-WM-500

Small-scale vertical cable manager for use with 500-pair Tower
height: 675.9mm (26.6 in.),
width: 76.2mm (3.0 in.),
depth: 153.0mm (6.1 in.)

S188-WD

S110M-WM

S188-WD

Metal duct for additional horizontal cable management at base of Tower
height: 114.3mm (4.5 in.),
width: 215.9mm (8.5 in.),
depth: 203.2mm (8.0 in.)

S188-GND

Ground kit consists of one, 3-position grounding busbar
height: 9.0mm (0.4 in.),
width: 50.8mm (2.0 in.),
depth: 12.3mm (.5 in.)

S188-GND

XLBET Frame

The Siemon XLBET (Extra Large Building Entrance Terminal) frames are designed for use in large installations where space is a premium. Compatible with Siemon's vertical patching (VPC-6) and cable management (RS-CNL) channels.

XLBET Frame

Part #	Description
XL-(XX)00	7 ft. x 23 in. XLBET frame. Includes rack, wire management and mounting hardware. S110® wiring blocks not included *height: 2133.6mm (84.00 in.),* *width: 617.5mm (24.31 in.),* *depth: 406.4mm (16.00 in.)*

Use (XX) to specify pair count: 36 = 3600-pair, 72 = 7200-pair

XLBET Frame with S110 Wiring Blocks

Part #	Description
XL-(XX)00-W	7 ft. x 23 in. XLBET frame. Includes rack, wire management, S110 wiring blocks, clear designation holders, labels, and mounting hardware (S110 connecting blocks not included)

Use (XX) to specify pair count: 36 = 3600-pair, 72 = 7200-pair

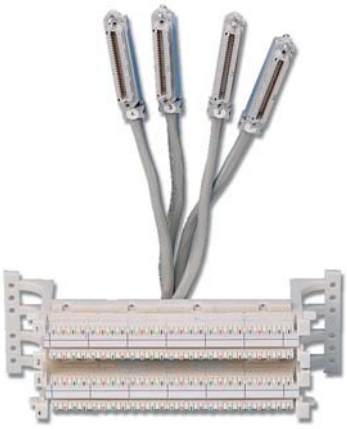
Optional Accessories

Part #	Description
XL-CK	Concrete mounting kit. Includes hardware to secure one 23 or 35 inch XLBET frame to a concrete floor
XL-(X)-3600	S110 connecting block kit. Includes the appropriate number of 4- or 5-pair connecting blocks to fully populate a 3600-pair frame. Two kits can be ordered for 7200-pair frames
XL-K23	23 in. (.58m) rack conversion kit. Converts one side of a standard 23 inch rack to an XLBET frame. Two kits are required to utilize both sides of a 23 inch rack. Includes wire managers, mounting bars and mounting hardware. Rack, S110 wiring blocks, clear designation holders and labels not included

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

Pre-Wired S110® Blocks

For quick, simple connection to phone equipment, the pre-wired S110 blocks provide connectorized 25-pair tails wired to 100- or 300-pair bases. The standard 6 in. (152mm) tails can be ordered extending from the top or bottom of the block with male or female connectors.



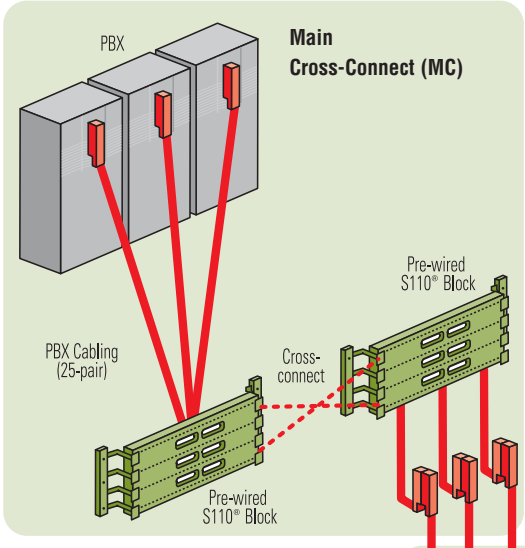
S110A(X)-100(XXX)-(X) . . . . . .
100-pair S110 pre-wired block

S110A(X)-300(XXX)-(X) . . . . . .
300-pair S110 pre-wired block

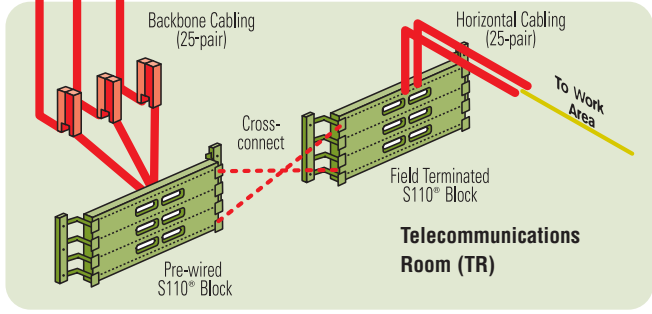
Use 1st (X) to specify connecting block subassembly: A = 5-pair, B = 4-pair

Use (XXX) to specify connector type: CT = connectorized top (female), CTM = connectorized top (male), CB = connectorized bottom (female), CBM = connectorized bottom (male)

Use 2nd (X) to specify cable length: Blank = standard 152mm (6 in.) tail, (X) = custom length, in feet



The pre-wired S110 block is ideal for use with phone systems due to its ability to easily accommodate connectorized 25-pair cables for fast and simple setup. In addition, the use of 25-pair cable for backbone cabling allows the pre-wired S110 block to provide an easy interface with your phone system all the way to the telecommunications room where connections can be made to the work area.



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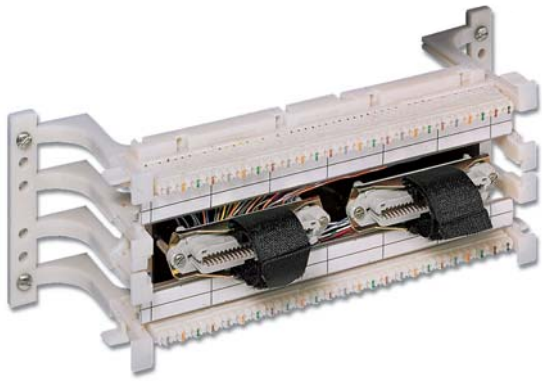
Pre-Wired S110® Blocks

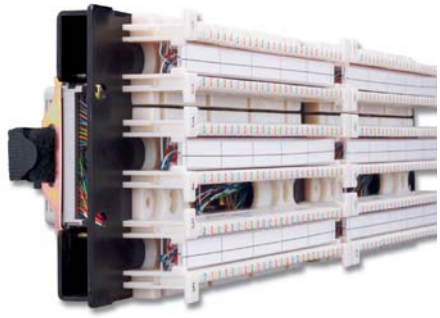
Siemon's S700 series blocks provide a simple interface method between 25-pair assemblies and punchdown fields using easily accessible connections. The blocks feature both fields on the face of the block eliminating the need to trace cables or access the rear of the block when making connections. Each block comes with label holders and white designation labels as well as hook and loop hold-downs to secure the 25-pair connectors.



Part #	Description
S700A110-B1-50	50-pair pre-wired S110 block with legs *height: 91.4mm (3.60 in.),* *width: 272mm (10.71 in.),* *depth: 82.8mm (3.26 in.)*

Pre-Wired S110 Panels

S110 pre-wired panels mount directly to a 19 inch EIA rack. The panels are available in either 100-, 200-, or 300-pair configurations pre-wired to female 25-pair connectors with black universal connector hold-downs. For optimum transmission performance, pre-wired blocks may be ordered with the pair twisting maintained between the wiring block and the connector. Each panel comes complete with mounting hardware, label holders, and white designation labels.



Part #	Description	RMS
S110D(X)(Y)-100RCT	100-pair pre-wired S110 panel, with 25-pair connectors	1
S110D(X)(Y)-200RCT	200-pair pre-wired S110 panel, with 25-pair connectors	2
S110D(X)(Y)-300RCT	300-pair pre-wired S110 panel, with 25-pair connectors	3

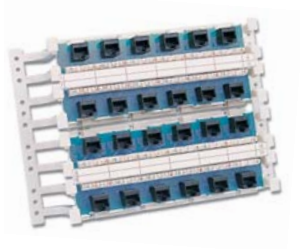
Use (X) to specify the connecting blocks: A = 5-pair, B = 4-pair
Use (Y) to specify twisted-pair option: 1 = without twisted-pairs, T = twisted-pairs
Note: 1 RMS = 44.5mm (1.75 in.)

S110® Modular Jack Blocks and Panels

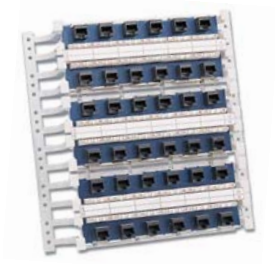
S110 Modular Jack Wall Mount Blocks

Part #	Description
S110AB5-50JP	6-port, T568A/B, with detachable legs *height: 45.7mm (1.80 in.),* *width: 272mm (10.71 in.),* *depth: 82.8mm (3.26 in.)*

Part #	Description
S110AB5-100JP	12-port, T568A/B,with detachable legs *height: 91.4mm (3.60 in.),* *width: 272mm (10.71 in.),* *depth: 82.8mm (3.26 in.)*



Part #	Description
S110AB5-200JP	24-port, T568A/B, with permanent legs *height: 183mm (7.20 in.),* *width: 272mm (10.71 in.),* *depth: 82.8mm (3.26 in.)*



Part #	Description
S110AB5-300JP	36-port, T568A/B, with permanent legs *height: 274.3mm (10.8 in.),* *width: 272mm (10.71 in.),* *depth: 82.8mm (3.26 in.)*

Rack Mount Panels

Part #	Description
S110DB5-24RJP	24-port jack panel, on a 19 inch panel, T568A/B, 2 RMS

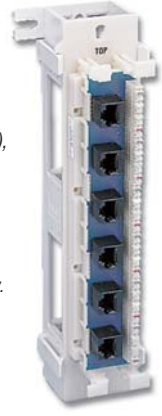
Note: 1 RMS = 44.5mm (1.75 in.)

Vertical Mount Panels

Part #	Description
S110DB5-50JP89	6-port, T568A/B for mounting on S89 bracket *height: 254.0mm (10.00 in.),* *width: 85.9mm (3.38 in.),* *depth: 86.6mm (3.41 in.)*

(dimensions include S89 bracket)

**S89 brackets are not included and must be ordered separately.*



S110 Tower Modular Jack Panels

Part #	Description
S110MB5-(XXX)JP	S110 Tower modular jack panel kit, T568A/B

Use (XXX) to specify port counts:
300 = 36 ports, height: 406.4mm (16.0 in.), width: 215.9mm (8.5 in.), depth: 152.6mm (6.0 in.)
400 = 48 ports, height: 541.3mm (21.3 in.), width: 215.9mm (8.5 in.), depth: 152.6mm (6.0 in.)
500 = 60 ports, height: 676.1mm (26.6 in.), width: 215.9mm (8.5 in.), depth: 152.6mm (6.0 in.)