

## **Instruction Sheet**

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**SYSTIMAX®** Solutions

### 1100 PowerSUM®, GS3 and GS6 Panel Instructions

#### General

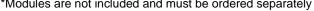
The SYSTIMAX® 1100 panels are available in a 24- or 48-port, straight or angled configuration. The panels exceed Category 5E, 6 and 6A standards and are designed to mount into a standard 19-inch (483mm) equipment rack. The panels accommodate either EIA-T568A or EIA-T568B wiring applications. Unpopulated GS3 and GS6 panel kits are available for use with separately ordered modules.

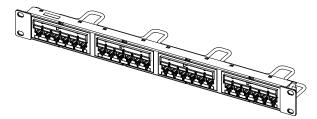
Ordering information for panels is listed below:

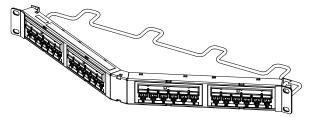
	PowerSUM Modular Panels	GS3 Modular Panels		
Material ID	Description	Material ID	Description	
760182907	1100 PowerSUM panel - 1U 24-port	760206797	1100 GS3 panel - 1U 24-port	
760182915	1100 PowerSUM panel - 2U 48-port	760206805	1100 GS3 panel - 2U 48-port	
760182923	1100 angled <b>PowerSUM</b> panel - 1U 24-port	760206813	1100 angled GS3 panel - 1U 24-port	
760182931	1100 angled PowerSUM panel - 2U 48-port	760206821	1100 angled GS3 panel - 2U 48-port	
	GS6 Modular Panels			
760206839	1100 GS6 panel - 1U 24-port			
760206847	1100 GS6 panel - 2U 48-port			
760206854	1100 angled GS6 panel - 1U 24-port			
760206862	1100 angled GS6 panel - 2U 48-port			

Ordering information for panel kits is listed below:

	GS3 Panel Kits*		GS6 Panel Kits*			
Material ID	Description	Material ID	Description			
760206896	1100 GS3 panel kit - 1U	760206946	1100 GS6 panel kit - 1U			
760206904	1100 GS3 panel kit - 2U	760206953	1100 GS6 panel kit - 2U			
760206912	1100 angled GS3 panel kit - 1U	760206961	1100 angled GS6 panel kit - 1U			
760206920	1100 angled GS3 panel kit - 2U	760206979	1100 angled GS6 panel kit - 2U			
*Modules are not included and must be ordered separately						







SYSTIMAX® 1100 PowerSUM® 24-Port Flat Panel and 24-Port Angled Panel





#### **How to Contact Us**

- To find out more about CommScope® products, visit us on the web at www.commscope.com/
- For technical assistance:
  - Within the United States, contact your local account representative or technical support at 1-800-344-0223. Outside the United States, contact your local account representative or PartnerPRO™ Network Partner.
  - Within the United States, report any missing/damaged parts or any other issues to CommScope Customer Claims at 1-866-539-2795 or email to claims@commscope.com. Outside the United States, contact your local account representative or PartnerPRO Network Partner.

#### **Tools Required**

- Phillips head screwdriver
- Cable jacket scoring tool
- D-914 punch tool with M110 blade.

#### **Specifications**

#### **Wire Termination**

Wire Size:

22-24 AWG (0.64 - 0.51mm) Solid Copper

22-24 AWG (0.64 - 0.51mm) Seven Stranded Copper

Insulation Size:

0.042 inch maximum DOD

Insulation Types:

Polyethylene, Polypropylene, and FEP

IDC Reterminations:

20 minimum

Modular Jack Mating Cycles: 750 minimum

#### **Environmental Data**

Temperature Range:
-40°F (-40°C) to 158°F (70°C) (Storage)
14°F (-10°C) to 140°F (60°C) (Operational)
Humidity:

95% Noncondensing

#### **Parts List**

Verify parts against parts list below:

	C	luantity			
24-Port Flat Panel	48-Port Flat Panel	24-Port Angled Panel	48-Port Angled Panel	Description	
1	_	_	_	24-port flat panel	
_	1	_	_	48-port flat panel	
_	_	1	_	24-port angled panel	
_	_	_	1	48-port angled panel	
4	4	4	4	P12-24 x ½" mounting screws	
1	2	1	2	Cable management bar	
4	8	4	8	Hook-and-loop straps	
1	2	1	2	Termination manager kit	
4	8	4	8	Rear label, T568A wiring *	
1	2	1	2	Front label card (4 labels per card)	
1	2	1	2	Label cover card (4 label covers per card)	
1	1	1	1	Instruction sheet	

<sup>\*</sup> Not included if module is preinstalled with combined T568A&B wiring designation label.

#### **Separately Orderable Modules**

Modules for the 1100GS3/1100GS6 panel kits must be ordered separately and are listed below:

Material ID	Product Number	Description
760206938	1100-GS3-DM6	1100 GS3 distribution module kit - 6 port
760206987	1100-GS6-DM6	1100 GS6 distribution module kit - 6 port

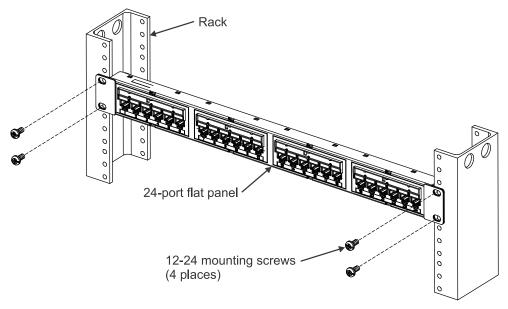


### WARNING - Important Safety Instructions

When using this product, the following basic safety precautions should be followed to reduce the risk of fire, electric shock, and injury to persons:

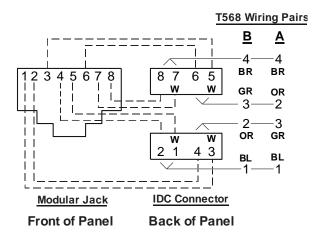
- 1. Never install communications wiring in wet locations unless it is designed for wet locations.
- 2. Never install this product during a lightning storm. There is a remote risk of electric shock.
- 3. Never touch uninsulated communication wiring or terminals unless the communication circuit has been disconnected at the network interface.
- 4. **Caution:** All wiring that connects to this equipment must meet applicable local and national building codes and network wiring standards for communication cable.

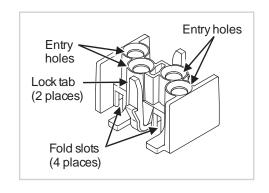
Step 1 - Mount Panel to Rack



1. Mount panel to rack using the four 12-24 mounting screws provided.

### Step 2 - Terminate Conductors on Rear of Panel





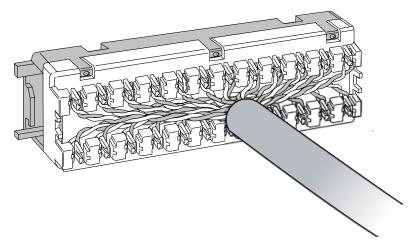
**T568 Wiring Diagram** 

**Termination Manager** 

**Note:** The module comes with a T568B wiring designation label installed. If T568A wiring is desired, first remove the "B" type label and then place the "A" type label. **Do not place the "A" type label on top of the "B" type label.** If the module comes with a combined T568 A&B wiring designation label installed, choose T568A wiring or T568B wiring according to label designation.

- 1. Prepare cable for termination. Terminate conductors on the IDC terminals per the wiring diagram shown above and utilizing the provided termination manager.
- 2. See pages 7 and 8 for correct procedure on using the termination manager.

#### **Termination of 25-Pair Cable on the Panels**



Note: If terminating 25-pair cables on the rear of a panel, do not use the termination managers.

- 1. Replace existing wiring labels on blocks with the provided 25-pair wiring labels prior to terminating the conductors. **Do not place the 25-pair labels on top of the 4-pair labels.**
- 2. Terminate conductors per wiring tables on the next page.
- 3. Position 25-pair cable in the center of the block and between the upper and lower contacts.
- 4. Prepare and place all of the conductors from the center of the block outward to each end, then use a D-914 single-pair impact tool to seat and cut the conductors.

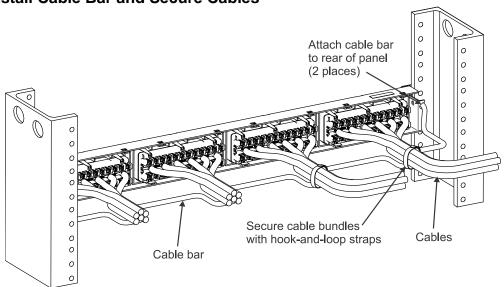
Table A. 25-Pair Cable Terminations (B-Wiring Application)							
IDC No.	1	2	3	4	5	6	
1	W/BL	W/GY	R/BR	BK/G	Y/O	V/BL	
2	BL/W	GY/W	BR/R	G/BK	O/Y	BL/V	
3	W/O	R/BL	R/GY	BK/BR	Y/G	V/O	
4	O/W	BL/R	GY/R	BR/BK	G/Y	O/V	
5	W/G	R/O	BK/BL	BK/GY	Y/BR	V/G	
6	G/W	O/R	BL/BK	GY/BK	BR/Y	G/V	
7	W/BR	R/G	BK/O	Y/BL	Y/GY	V/BR	
8	BR/W	G/R	O/BK	BL/Y	GY/Y	BR/V	

Note: Pair 25 is used for spare pair.

Table B. 25-Pair Cable Terminations (A-Wiring Application)								
IDC No.	1	2	3	4	5	6		
1	W/BL	W/GY	R/BR	BK/G	Y/O	V/BL		
2	BL/W	GY/W	BR/R	G/BK	O/Y	BL/V		
3	W/G	R/O	BK/BL	BK/GY	Y/BR	V/G		
4	G/W	O/R	BL/BK	GY/BK	BR/Y	G/V		
5	W/O	R/BL	R/GY	BK/BR	Y/G	V/O		
6	O/W	BL/R	GY/R	BR/BK	G/Y	O/V		
7	W/BR	R/G	BK/O	Y/BL	Y/GY	V/BR		
8	BR/W	G/R	O/BK	BL/Y	GY/Y	BR/V		

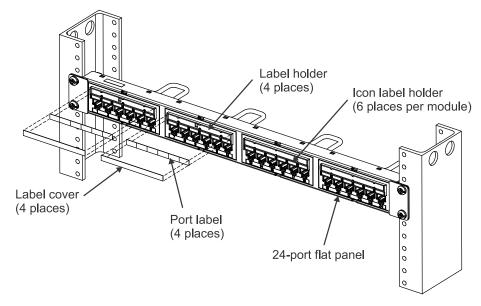
Note: Pair 25 is used for spare pair.

**Step 3 – Install Cable Bar and Secure Cables** 



- 1. Once cables have been terminated, attach cable bar to rear of panel. For 48-port panels, two cable bars are provided.
- 2. Lay cables evenly in bends of cable bar and secure using the provided hook-and-loop straps as shown.

Step 4 -Insert Labels and Label Covers



- 1. Print the port designations on the white label cards provided. Slide labels and label covers into the label holders from either end. Each label holder will accommodate labels up to 0.265 inches (6.7mm) high x 3.50 inches (89mm) wide.
- 2. Blank, voice, and data icons can be ordered separately in a wide variety of colors and placed into the pockets in the lower portion of the label holders.
  - **Note:** Product code M61K-XX (blank, voice, and data icons) to be ordered separately. XX denotes the color abbreviation.
- 3. To print a designation label, go to <a href="http://www.commscope.com/Resources/Labeling-Templates">http://www.commscope.com/Resources/Labeling-Templates</a>, scroll down to *Panels* and select label template *360 Evolve-360 PatchMAX UNP-Label Sheet*. Labeling website has two options for printing labels; letter size (760183244) and A4 size (760186502).

#### **Patch Panel Termination Manager Instructions**

The termination managers provide pair positioning, control, and strain relief features to the rear termination area of the panel. See Figure 1. Instructions for using the termination manager are listed below.

#### Feed Pairs into Termination Manager (Figure 2)

- 1. Trim jacket back at least 3 inches (76mm) to expose twisted-pairs.
- 2. Without crossing over or rearranging pairs out of the jacket, position pairs in-line per pair colors below:

## **T568B Wiring Application (Shown)**Blue, Brown, Orange, Green

### **T568A Wiring Application**

Blue, Brown, Green, Orange

- 3. Insert pairs through 4 holes on top surface of termination manager, one pair per hole, as shown.
- 4. Continue to feed pairs through termination manager until resistance is encountered at the jacket. This will usually be about 1/4 inch (6mm) from the jacket.

#### Fold Pairs into Slots (Figure 3)

5. Fold each pair over into adjoining slots on bottom end of termination manager. Conductor colors must be arranged in the slots as listed below:

#### **T568B Wiring Application (Shown)**

BL/OR Pairs – Blue/Orange conductors on top BR/GR Pairs – both White conductors on top

#### **T568A Wiring Application**

BL/GR Pairs – Blue/Green conductors on top BR/OR Pairs – both White conductors on top

Important: Add twist as needed to align pairs with slots. Never remove twist for any pair. Do not allow pairs to untwist inside termination manager or inside cable jacket.

6. Ensure that both conductors of each pair are in slots completely without being pinched over bottom end surface.

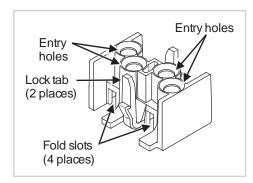


Figure 1. Termination Manager

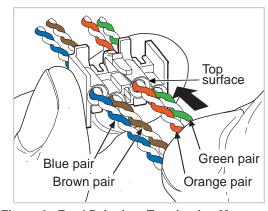


Figure 2. Feed Pairs into Termination Manager

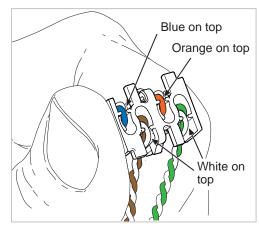


Figure 3. Fold Pairs Back into Slots

## **Snap Termination Manager onto Rear Housing** (Figure 4)

- Snap assembled termination manager onto rear housing with pair colors in proper position. Push on using the termination manager housing, not by pushing with the cable. (Ensure that both lock tabs on manager fully seat into rear housing).
- 8. After termination manager is snapped onto rear housing, untwist individual pairs fully and line up correct color conductor and white conductor with the label on the rear housing.

# Seat Wires into IDC Terminal Slots (Figure 5)

- Grasping each untwisted pair, push the conductors down into IDC terminal slots to seat them before punching down. Seat down into slots as far as possible. (It may be easier to use needle nose pliers to perform this task).
- 10. Using the D-914 punch tool with M110 blade on HI impact setting, punch down conductors making sure the tool is straight and that conductors fully engage in the IDC terminals. Stagger the punch-down tool up and down, so that it stays in alignment with the staggered terminal slots.

#### **Recommendations to Aid Assembly**

- The termination manager should be snapped onto the rear housing immediately after the pairs have been fed and folded over into the slots. All termination managers should be installed on the panel before proceeding to seat and punch down conductors.
- 2. Flex cables down for easier access, then seat and punch down the entire top row of the panel.
- 3. Flex cables up for easier access, then seat and punch down the entire bottom row.

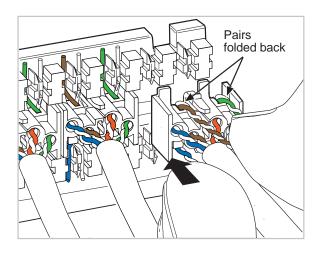


Figure 4. Snap Termination Manager onto Rear Housing

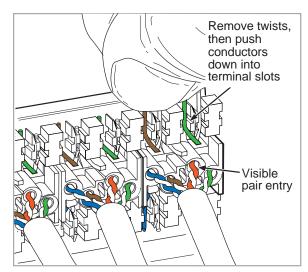


Figure 5. Seat Untwisted Pairs into IDC Terminal Slots