

DM Dynamic Angle Panel, Cat6 & Cat6A UTP

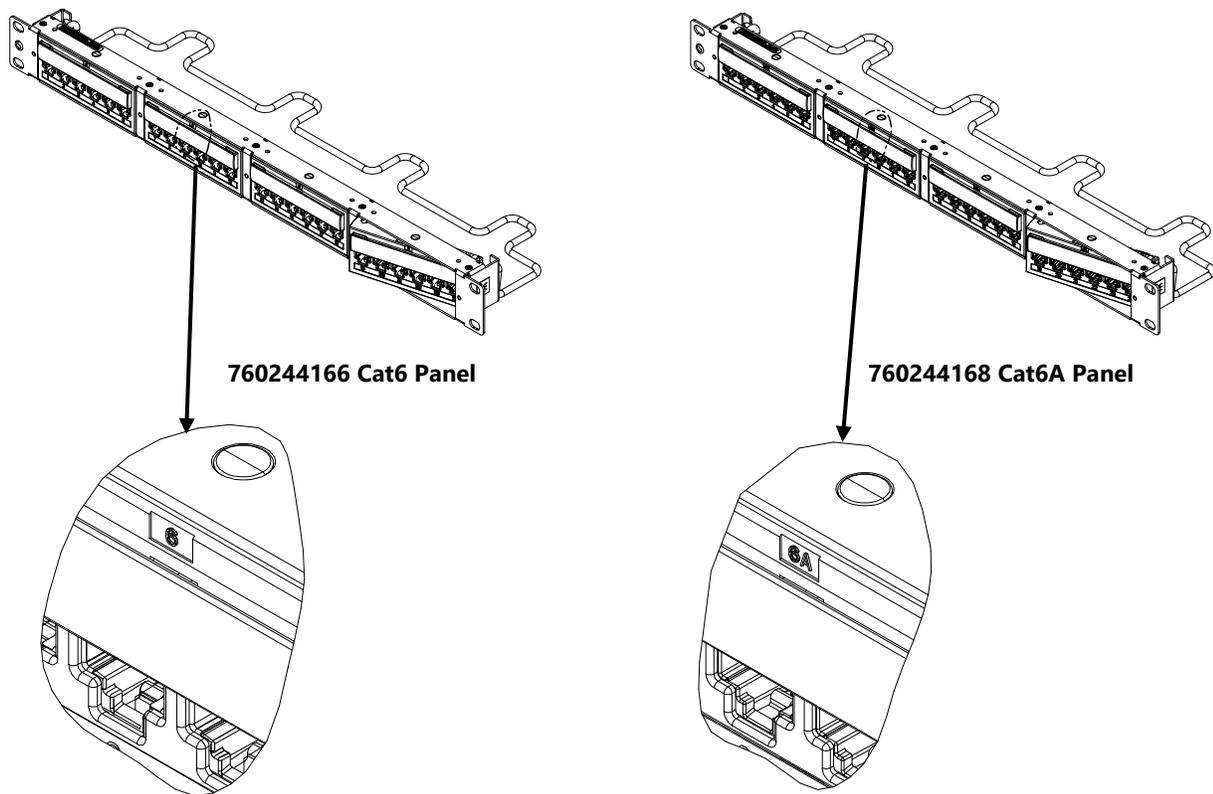
General

The CommScope® Distribution Module (DM) Dynamic Angle panels are available in a 24 port, straight, Cat6 & Cat 6A configurations.

The panel consists of a rack mounted base unit, rear cable management hardware, and labels for port numbering. Each panel mounts in a 19-inch (483mm) equipment rack with universal hole spacing.

Ordering information is listed below:

Material ID	Part No.	Description
760244166	CPPD-6-DM-1U-24	CommScope Dynamic Angled Distribution Module Panel, Cat6, UTP, 1U, 24 port
760244168	CPPD-6A-DM-1U-24	CommScope Dynamic Angled Distribution Module Panel, Cat6A, UTP, 1U, 24 port



Panel Category Identification Markings

Instruction Sheet

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.
- Small flat head screw driver

Specifications

Wire Termination

Wire Size:

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

Instruction Sheet

Parts List

Verify parts against parts list below:

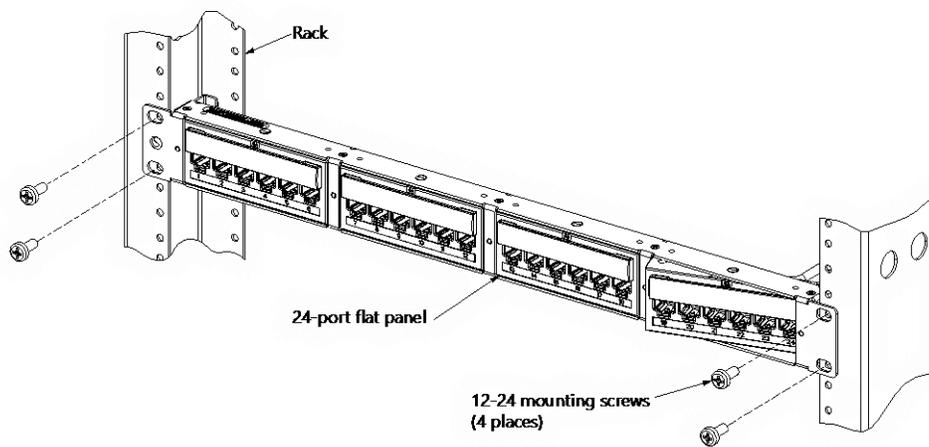
24-Port Flat Panel Cat6	24-Port Flat Panel Cat6A	Description
1	—	24-port flat panel
—	1	24-port flat panel
4	4	P12-24 x 1/2" mounting screws *
1	1	Adhesive label (5 per strip)
1	1	Cable management bar
4	4	Hook-and-loop straps
1	1	Instruction sheet

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.

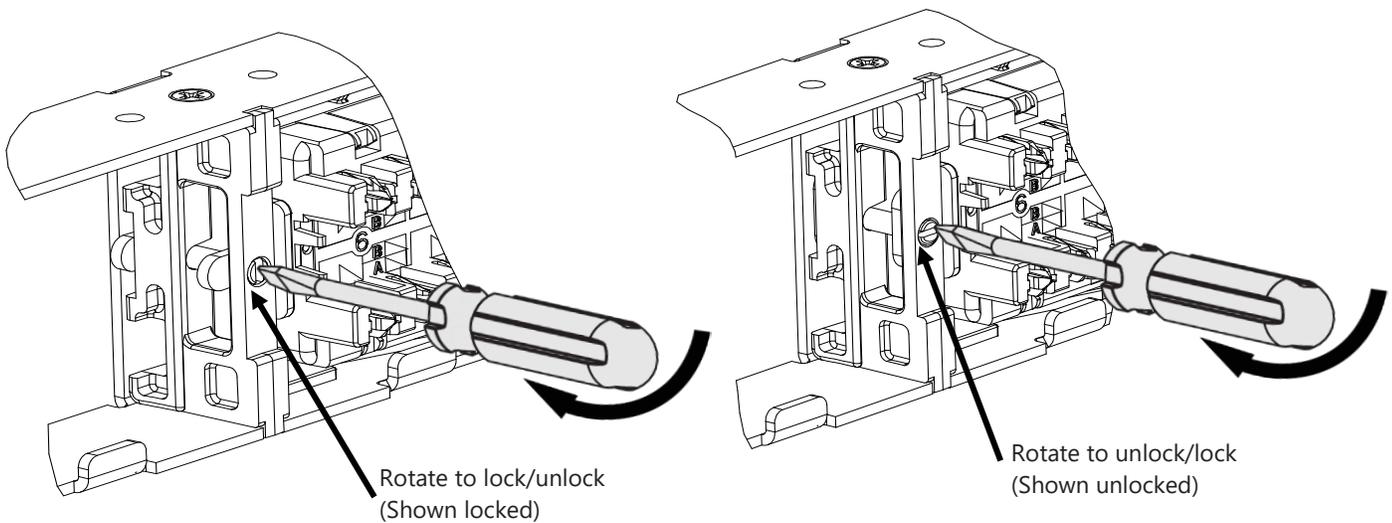
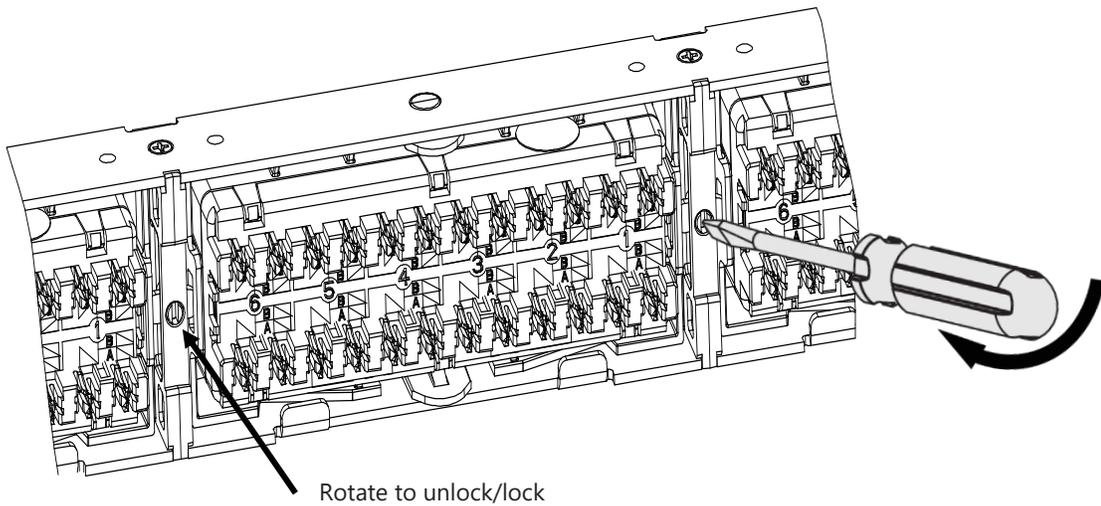
Step 1 – Mount Panel to Rack



Instruction Sheet

1. Mount panel to rack.
2. Position modules as shown and lock in place using small blade screwdriver before terminating conductors.

****NOTE: Do not attempt to terminate conductors without locking modules in place. This may cause modules to dislodge from panel during the punch down step.**

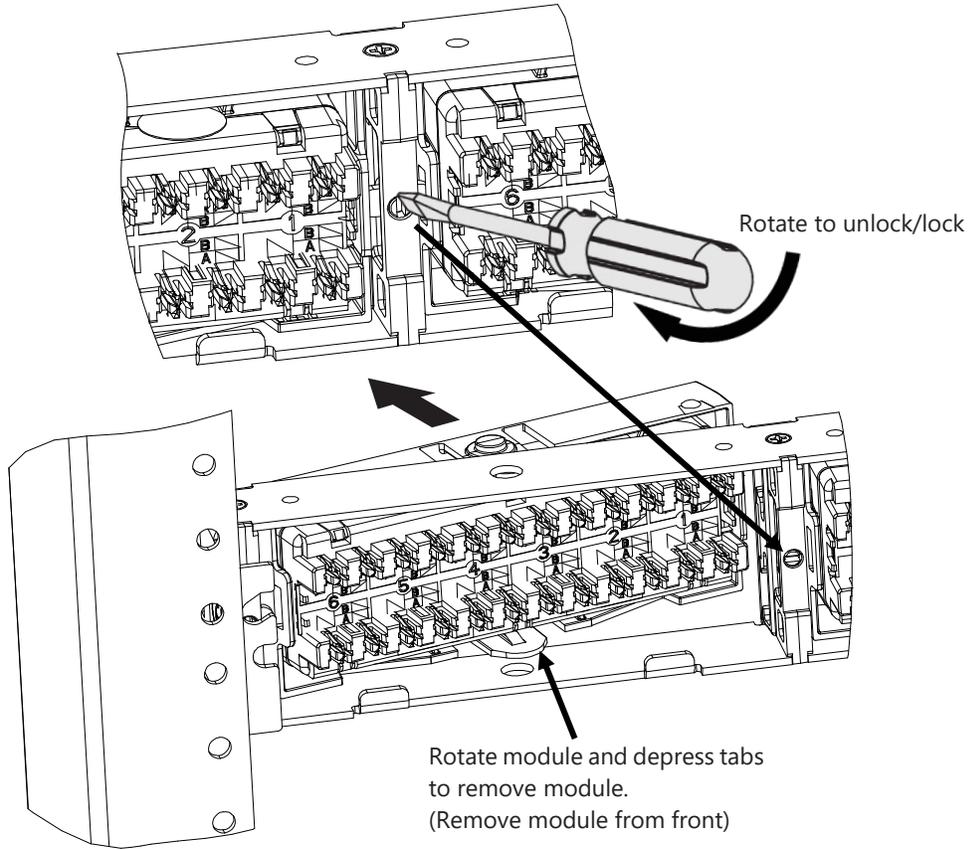


Instruction Sheet

Alternate Termination

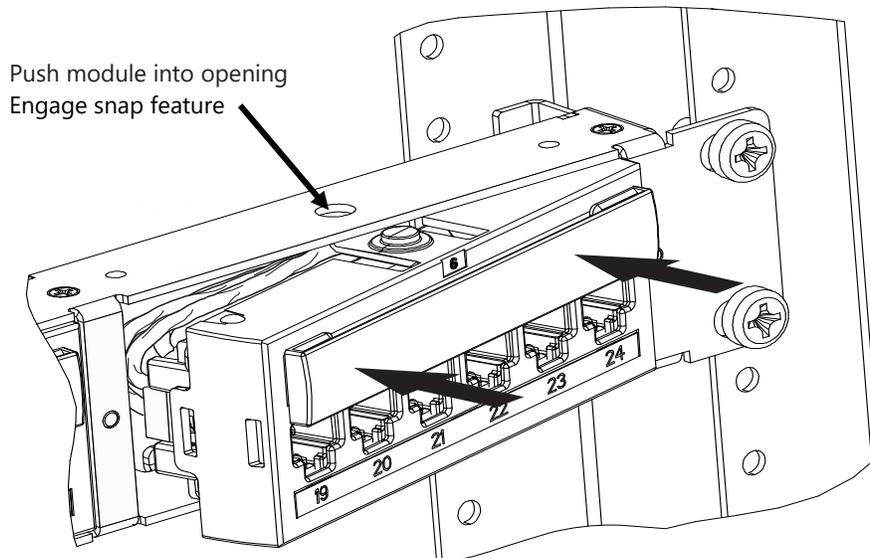
1. Modules can be terminated outside of panel from front and snapped into the panel after termination has been completed.
2. From rear side position lock feature in "unlocked" position. Depress tabs and remove module

Removal
(Rear View)

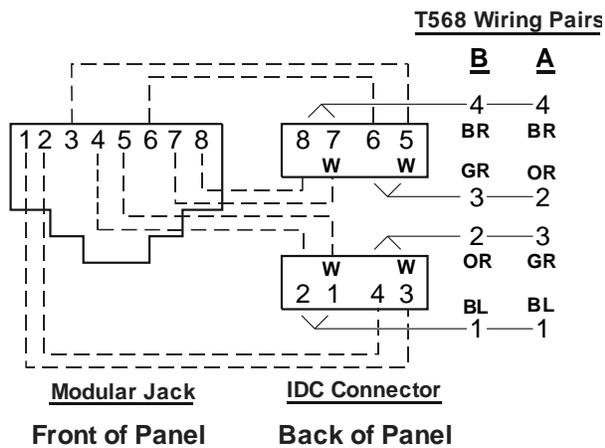
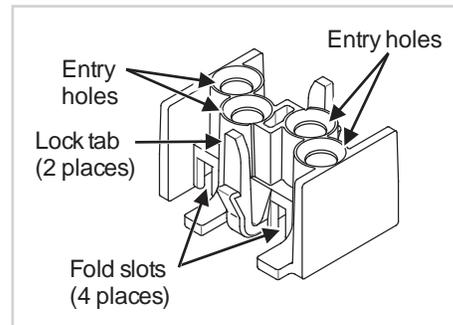


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3. Terminate modules and snap module back into panel.
 4. Insert module at slight angle and engage snaps into metal frame fully. Position module and lock in place if desired.

Install
(Front View)



Instruction Sheet

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, change accordingly. 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.

Instruction Sheet

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.

Not applicable for Cat5e panels

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.

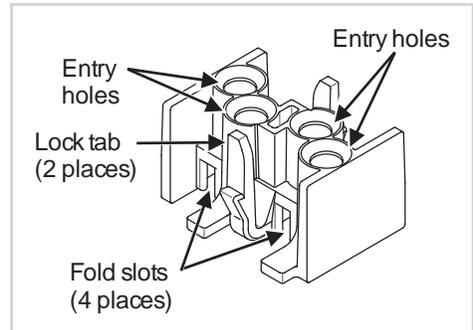


Figure 1. Termination Manager

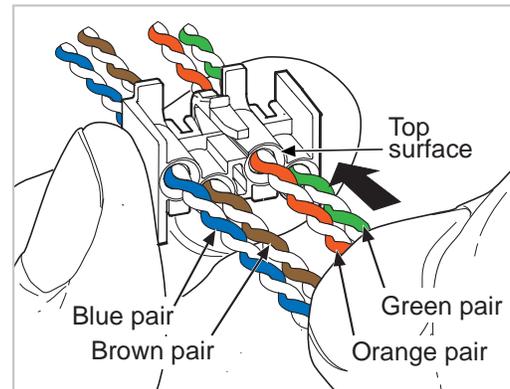


Figure 2. Feed Pairs into Termination Manager

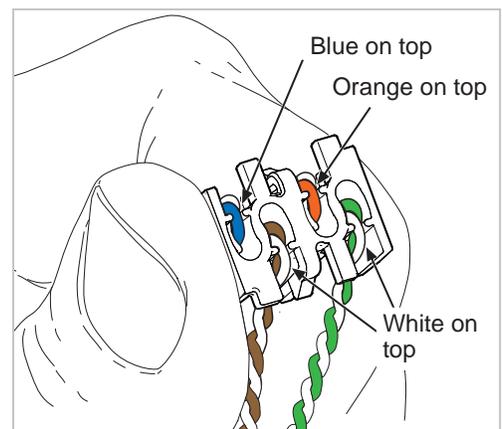


Figure 3. Fold Pairs Back into Slots

Instruction Sheet

Snap Termination Manager onto Rear Housing (Figure 4)

7. 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.

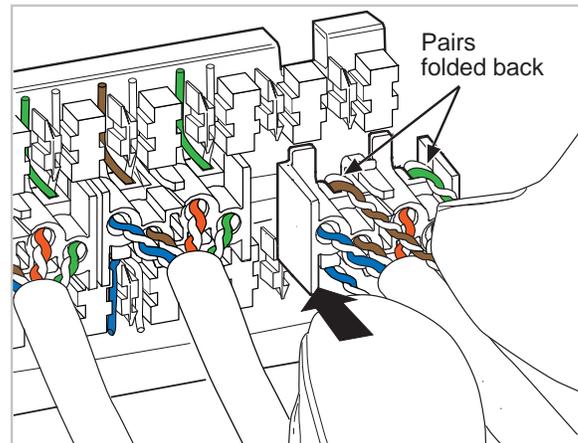


Figure 4. Snap Termination Manager onto Rear Housing

Seat Wires into IDC Terminal Slots (Figure 5)

9. 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.

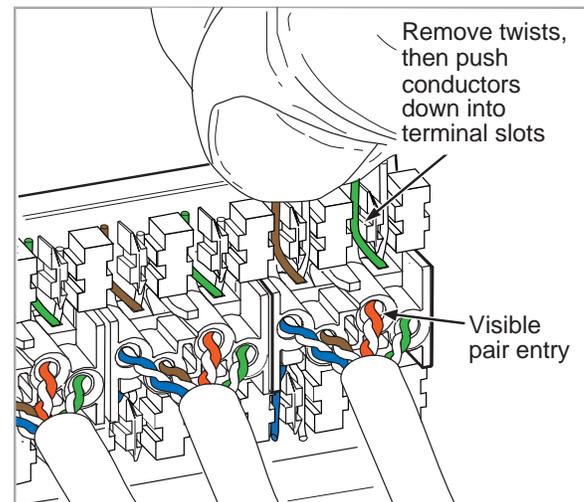


Figure 5. Seat Untwisted Pairs into IDC Terminal Slots

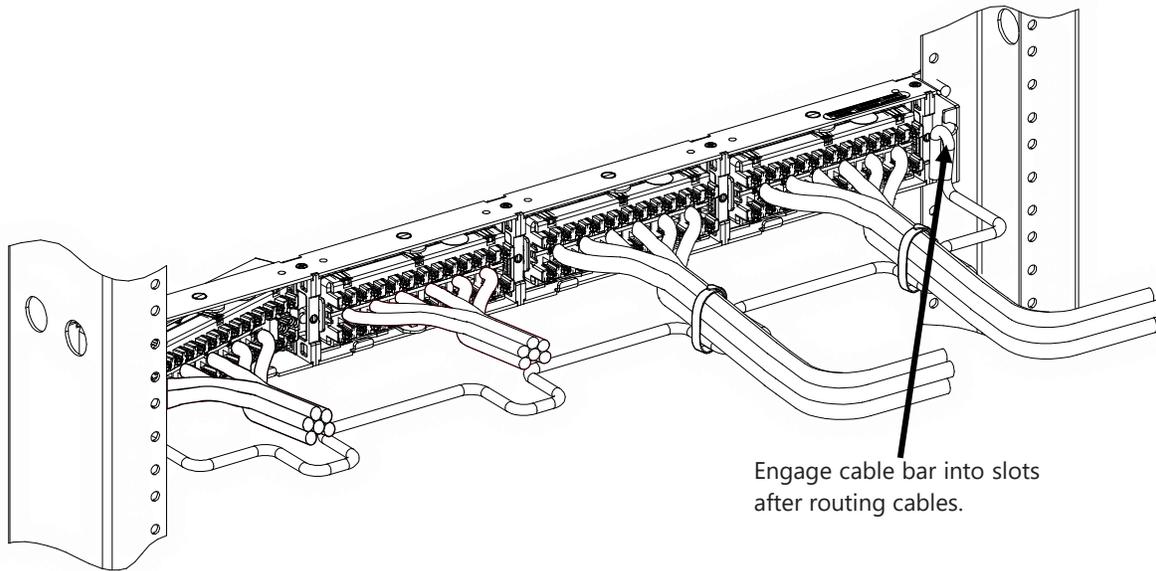
Recommendations to Aid Assembly

1. 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.

Instruction Sheet

Step 3 – Assemble and Install Rear Cable Manager

1. Once cables have been terminated, position modules to desired angles and lock in place, attach cable bar to rear of panel. Insert four hook-and-loop straps to cable bar.
2. Lay cables evenly in bends of cable bar and secure using the hook-and-loop straps provided.



Instruction Sheet

ADDENDUM:

25 pr Cable Termination if Required

**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.

WIRE COLOR	ABBREVIATION
BLUE	BL
WHITE	W
GREEN	G
BROWN	BR
ORANGE	O
RED	R
GRAY	GY
BLACK	BK
YELLOW	Y
VIOLET	V