



RMB-Type Rack Mounted Cable Bracket Kits Installation Instructions

General

The **CommScope**® RMB-6-3/8, RMB-6-1/2, and RMB-5-3/4 rack mounted cable bracket kits provide greatly improved fiber cable restraint and routing along equipment rack rails and ultimately, into termination/splicing shelves. These kits are designed for use with cables equipped with cable glands, either installed from the factory or added in the field. The three kits work with 3/8-inch, 1/2-inch, and 3/4-inch cable glands.

Cable glands are generically known as Liquid Tight Straight Strain Relief Fittings or Liquid Tight Straight-Thru Cordgrips and may be obtained from Sealcon www.sealconusa.com or Heyco www.heyco.com, among others. In addition, these kits will work with armored cables, when cables are equipped with **PER FIT*** connectors, available from www.americanconnectors.com.

Ordering information is listed below:

SYSTIMAX® Material ID	Uniprise® Part No.	Description
760058685	9703900/00	RMB-6-3/8 kit – for use with 3/8-inch cable glands
760058677	9703901/00	RMB-6-1/2 kit – for use with 1/2-inch cable glands
760058701	9703902/00	RMB-5-3/4 kit – for use with 3/4-inch cable glands

How to Contact Us

- To find out more about **CommScope**® products, visit us on the web at <http://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 Authorized Business Partner.
 - Within the United States, report any missing/damaged parts or any other issues to **CommScope** Customer Claims at 1-866-539-2795. Outside the United States, contact your local account representative or Authorized Business Partner.

Tools Required

- Flat head screwdriver 1/8" drill bit
- 5/16" hex socket with extension and ratchet or 5/16" open-end wrench
- Pliers

* Registered trademark of Pastusek Industries, Inc.

Separately Orderable Items

Cables are grounded to the equipment rack through the brackets, using the standard mounting hardware provided with the kits. Additional grounding is available using the BGND-12 grounding kit.

SYSTIMAX Material ID	Uniprise Part No.	Description
760058693	9703931/00	CommScope BGND-12 cable bracket grounding kit

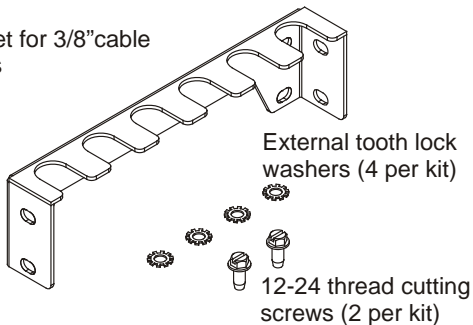
Important Safety Cautions

- To reduce the risk of fire, electric shock, and injury to persons, read, understand, and adhere to the following instructions as well as any warnings marked on the product.
- Remote risk of electric shock. Never install the product in wet locations or during lightning storms. Never touch uninsulated communication wires or terminals.
- Disconnected optical components may emit invisible optical radiation that can damage your eyes. Never look directly into an optical component that may have a laser coupled to it. Serious and permanent retinal damage is possible. If accidental exposure to laser radiation is suspected, consult a physician for an eye examination.
- Wear safety glasses to install the shelf. Although standard safety glasses provide no protection from potential optical radiation, they offer protection from accidental airborne hardware and cleaning solvents.

Verify Parts

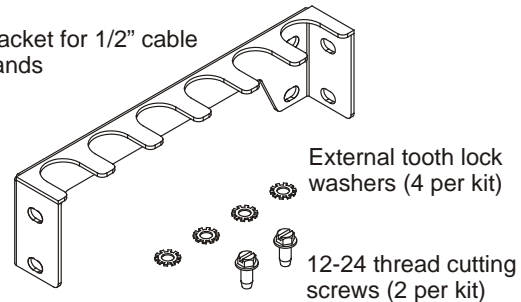
Verify parts against one of the three kits illustrated below.

Bracket for 3/8" cable glands



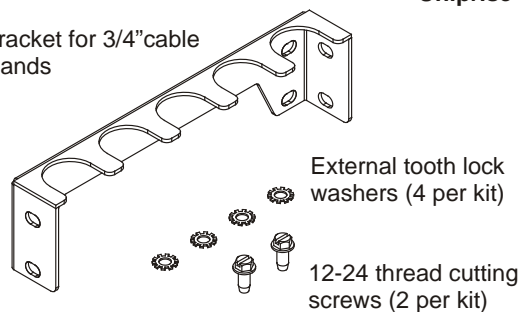
RMB-6-3/8 Kit
SYSTIMAX 760058685
Uniprise 9703900/00

Bracket for 1/2" cable glands



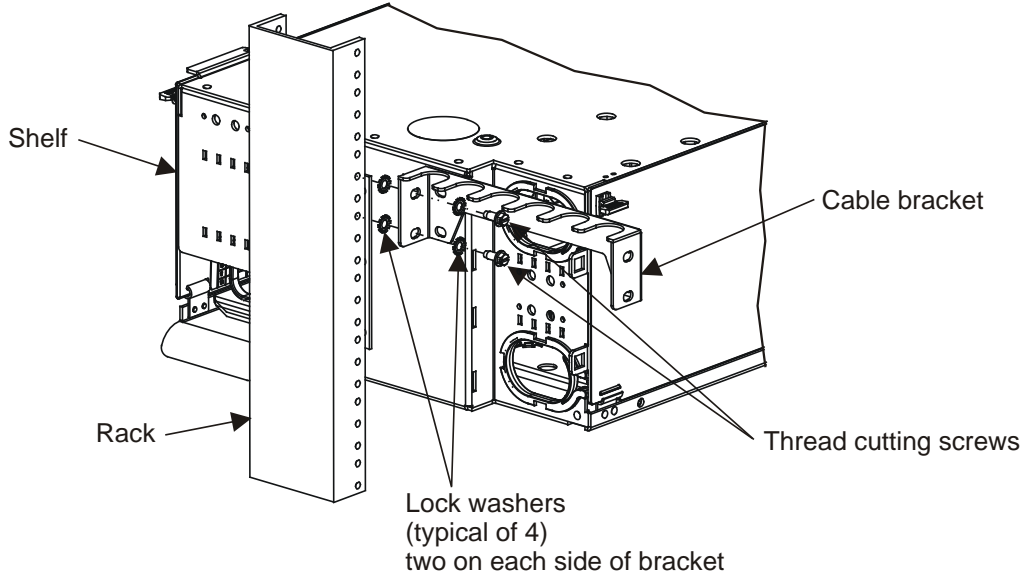
RMB-6-1/2 Kit
SYSTIMAX 760058677
Uniprise 9703901/00

Bracket for 3/4" cable glands



RMB-5-3/4 Kit
SYSTIMAX 760058701
Uniprise 9703902/00

Step 1 – Mount Bracket to Equipment Rack

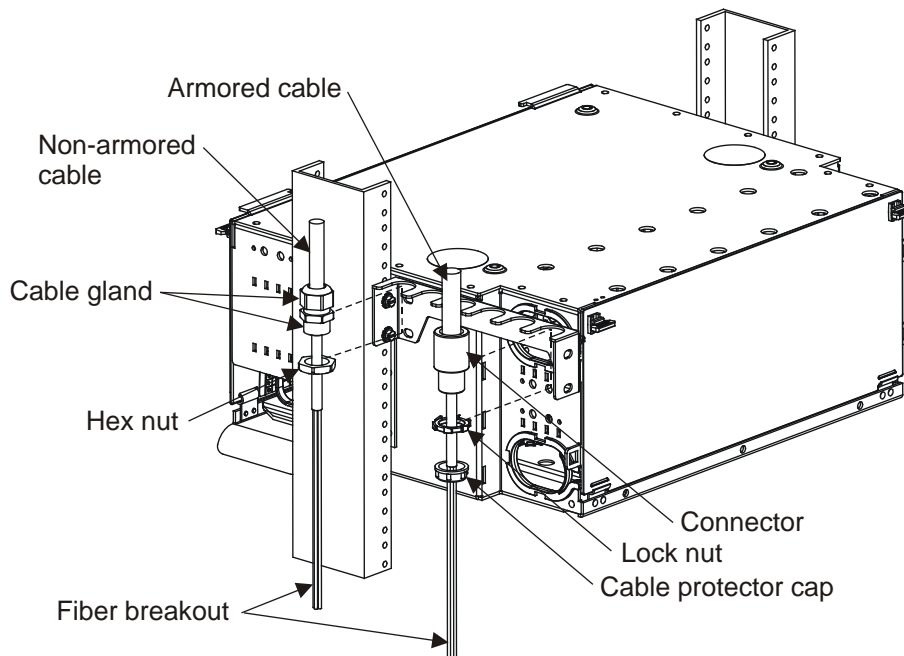


1. Select a convenient location on the equipment rack to attach the bracket for most advantageous cable routing and mount the bracket, using the supplied hardware, as shown above.

Note: Both external tooth lock washers must be used in the positions shown above to ensure a ground connection through the mounting hardware. If this installation is to be used for armored cable, use a multi-meter or suitable device to verify proper grounding of bracket to equipment rail before proceeding. **Equipment rack must be grounded.**

Step 2 – Install Cables

Install cables one at a time, starting from the position nearest to rack.



Non-Armored Cables

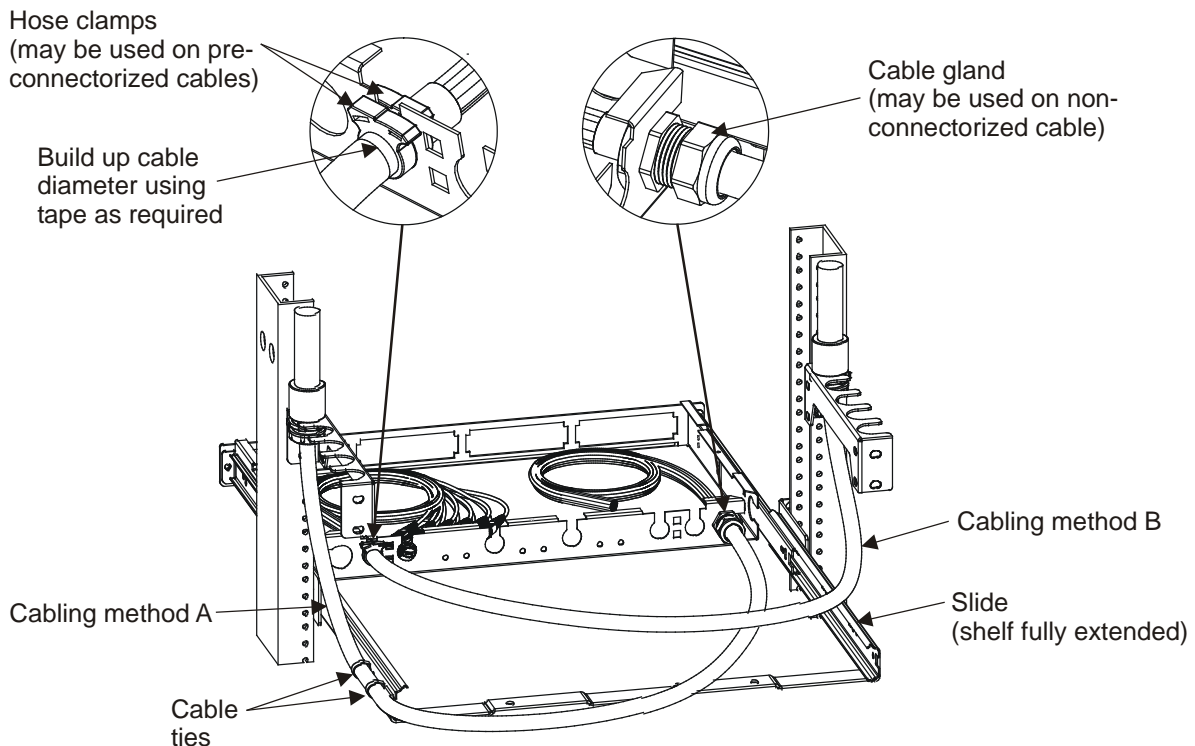
1. Loosen hex nut sufficiently to slide cable gland body into slot in bracket.
2. After sliding into slot, hand tighten hex nut. A flat on the nut may then be positioned against the inside wall of the bracket so that a wrench or pliers is not necessary to hold it in place.
3. Tighten cable gland the final 1/4 to 1/2 turn required to fully secure it in place.

Note: It may help installation to temporarily loosen the cable gland so that it is free to rotate around the cable to facilitate tightening of the nut and to adjust the breakout length (length of fiber that is exposed after sheath is stripped back) of the fiber that will be routed into the shelf.

Armored Cables

1. Loosen lock nut sufficiently to slide connector on end of armored cable into slot in bracket.
2. After sliding into slot, hand tighten locknut. Grasp connector body and, using pliers, turn the locknut the final 1/4 to 1/2 turn required to fully secure it in place. Insure that the cable protector cap is in place. See figure on previous page.

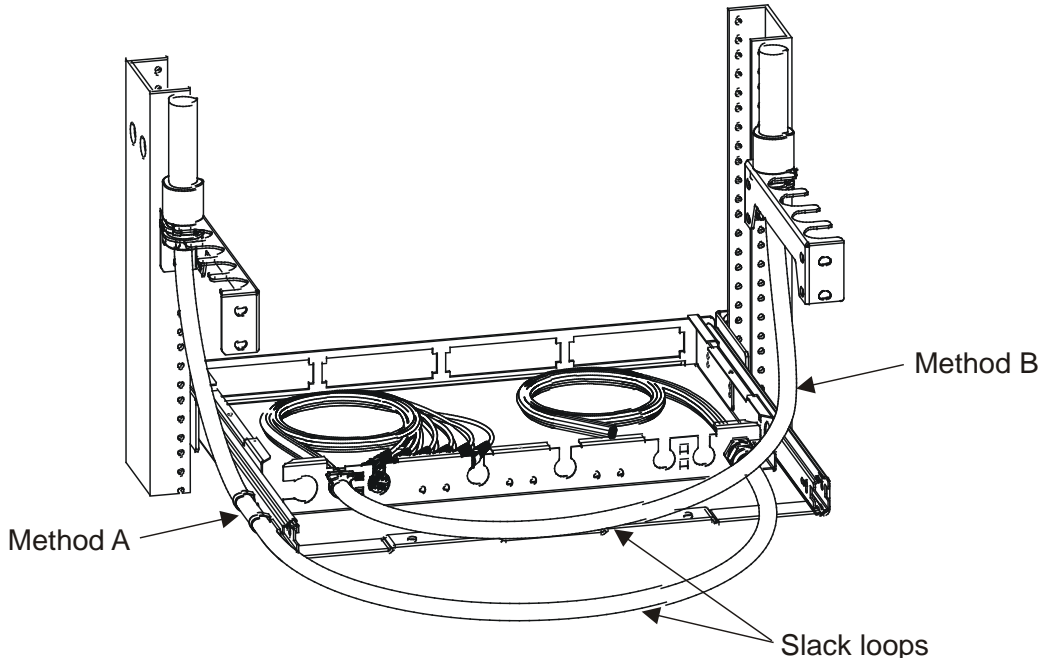
Step 3A – Routing Cables into a Sliding Shelf



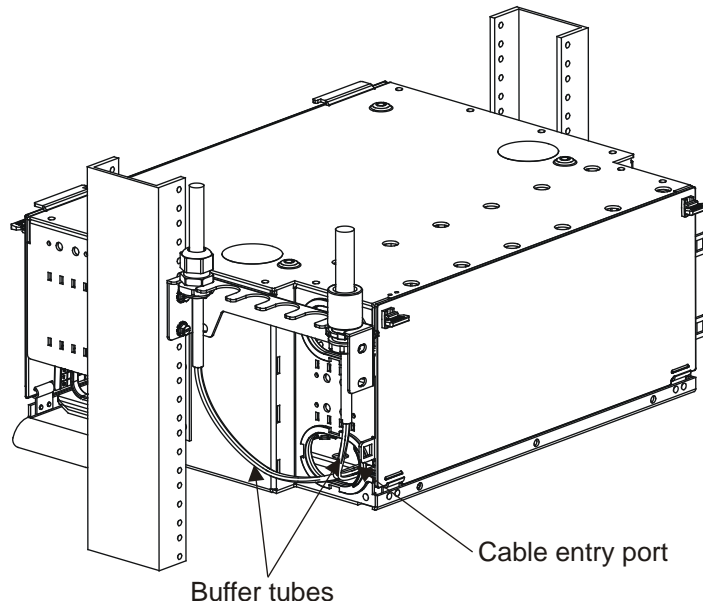
Shelves on drawer slides require extra care when cabling. Sufficient slack must be provided to permit the shelf to extend and retract properly. The figure above shows two different methods to accomplish this. Method “A” must be used when equipment is installed immediately above the sliding shelf. Method “B” can only be used when there is a minimum of 1 rack unit space (1U or 1.75” [44 mm]) open immediately above the shelf. Method “B” provides the minimum slack loop behind the shelf and is recommended for cabinet installations or data centers with narrow walkways between racks of equipment. The figure on the next page shows the shelf in the fully retracted position to illustrate the differences in the slack loop between the two methods.

Alternate methods of cable restraint must be adopted for differing cable types. The detail bubbles in the figure above show two possible methods. If a cable is not connectorized, a cable gland may be used to restrain the

cable to the rear apron of the shelf. Cable glands of various sizes are available from the sources mentioned in the *General* section of these instructions. If a cable already has connectors installed to the fibers, then clamps must be used. The hose clamps shown are from the SHC series available from Richco www.richco-inc.com and are available in many different sizes but there are many other suitable devices that may be used.

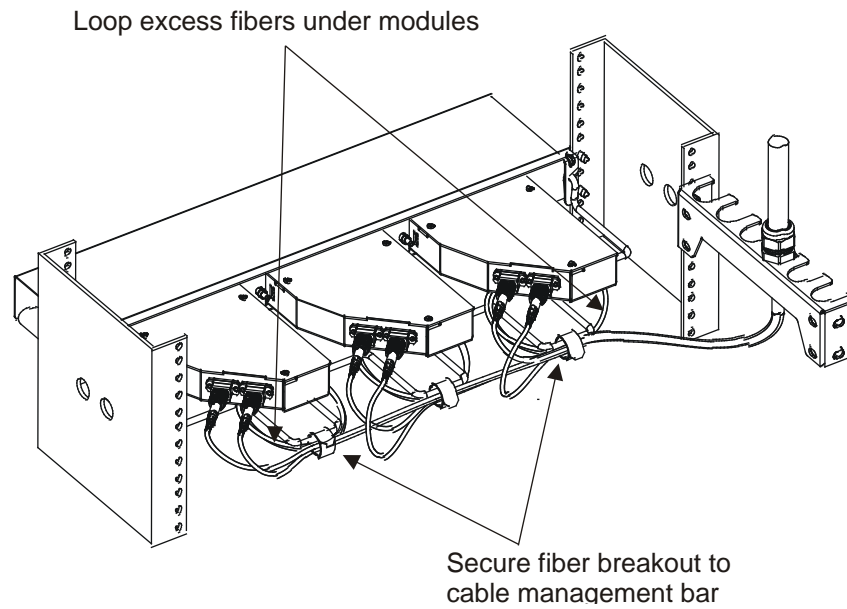


Step 3B – Routing Fibers into a Fixed Shelf



1. Carefully route buffer tubes from cables through port(s) provided in shelf.

Step 3C – Routing Fibers into a Fixed Panel



1. Carefully route and secure the fiber breakout to the cable management bar on rear of panel as shown.