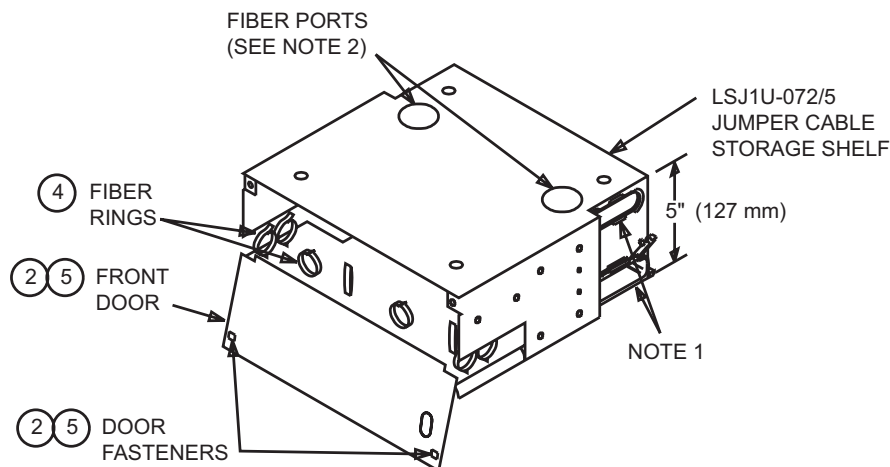


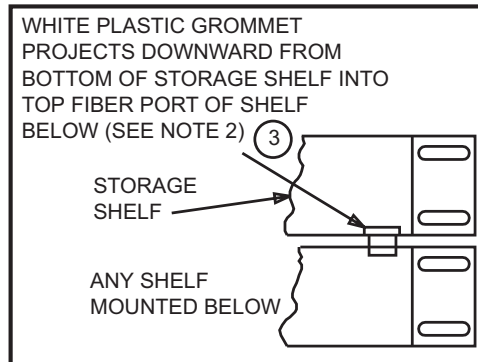
## STEP 1—CHECK PARTS AND INSTALL GROMMETS AND RINGS

(This product is intended for indoor use, or outdoors in a suitable protective enclosure.)



LOOSE PARTS FURNISHED WITH SHELF ①		
ID NUMBER*	DESCRIPTION	QUAN
846 247 443	Mounting Bracket	1
846 247 435	Mounting Bracket	1
—	Fiber Rings	12
848 067 369	Cable Clamp Brackets	2
—	White Plastic Grommets	2
—	Misc. Screws and Nuts	—
—	Bend Limiter, Upper	2
—	Bend Limiter, Lower	2

\* For ID purposes, not for ordering.

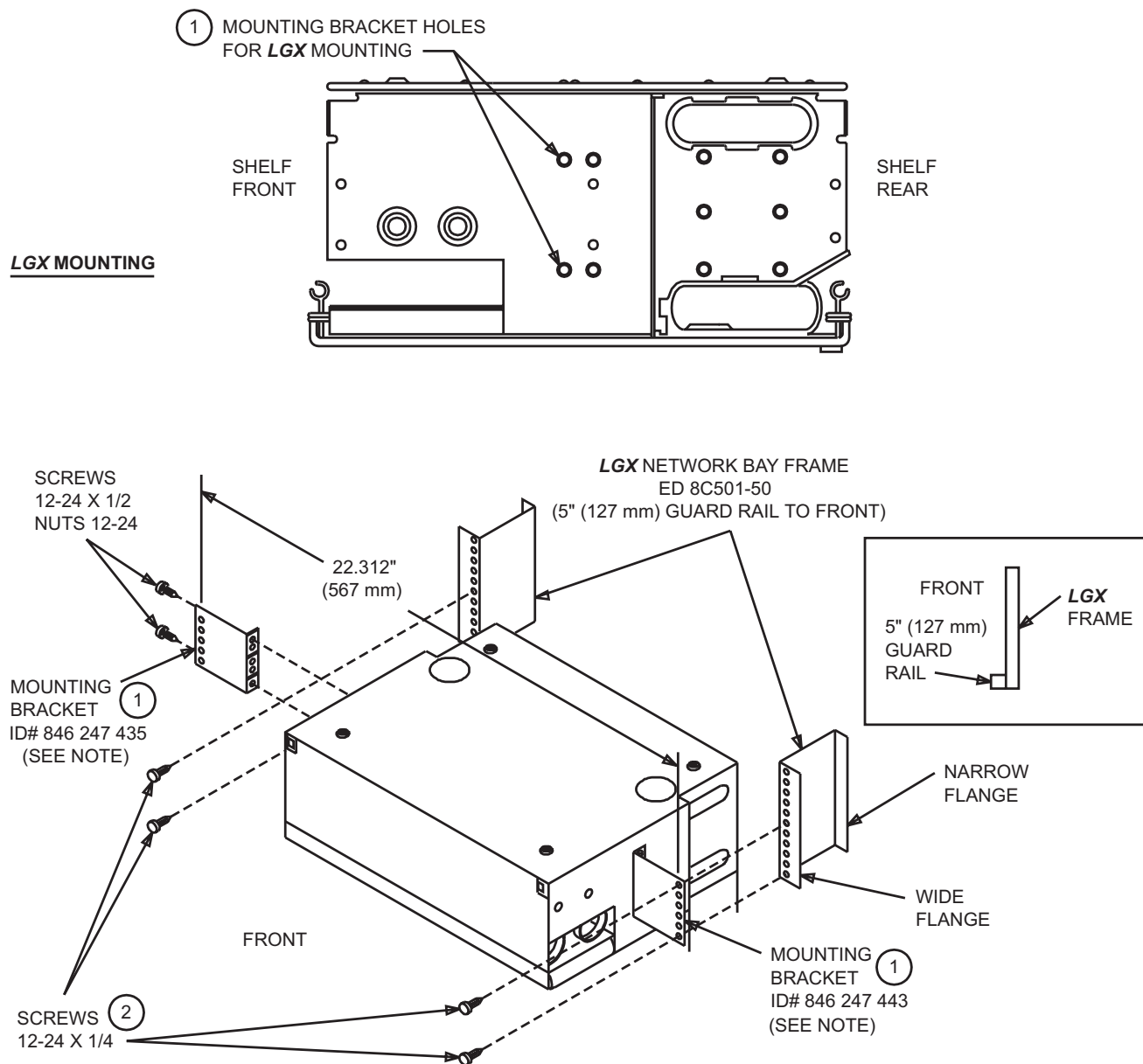


**Note 1:** LS-type shelves come equipped with plastic grommets in upper cable ports, and slotted out lower cable entry ports. The slots will have grommets and will permit easy lay-in of cables or fibers.

**Note 2:** Grommets installed in fiber ports allow fibers to be routed internally to other shelves. To install grommets, remove bottom two fiber port plugs. Install grommets from inside shelf projecting downward as shown above. When mounting termination shelf above another shelf, remove top fiber port plugs in shelf below. When mounting under another shelf, remove top two fiber plugs in termination shelf.

1. Verify parts against parts list.
2. Rotate front door fasteners 1/4 turn and tilt door open.
3. Install white plastic grommets, if required.
4. Position and snap optional fiber rings into front and back of shelf as shown on Pages 6 and 7.
5. Return front door to closed position and rotate fasteners 1/4 turn to secure.

## STEP 2—INSTALL SHELF MOUNTING BRACKETS AND MOUNT SHELF—*LGX*® FRAME

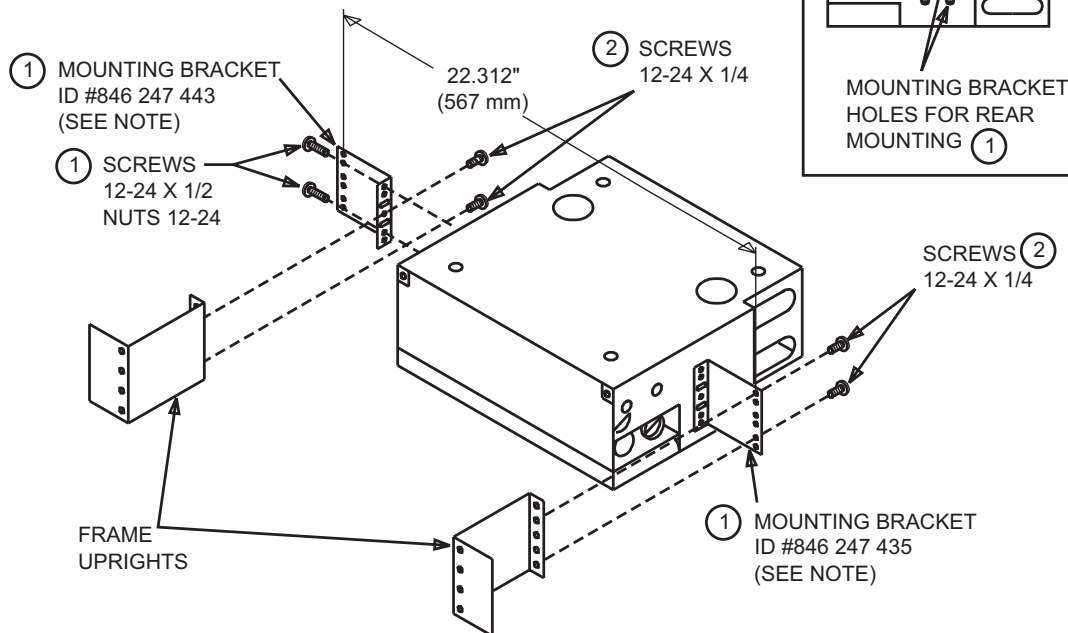


**Note:** Mounting brackets are not interchangeable. Mount brackets to shelf per ID numbers shown above.

1. Position and attach each mounting bracket to shelf using proper mounting holes (see above) with two 12-24 by 1/2 screws and 12-24 nuts (with captive lockwashers).
2. Install shelf to front of *LGX* frame with two 12-24 by 1/4 screws per mounting bracket.

## STEP 2—INSTALL SHELF MOUNTING BRACKETS AND MOUNT SHELF—OTHER THAN LGX® FRAME

### 23" (584 mm) FRAME REAR MOUNTING

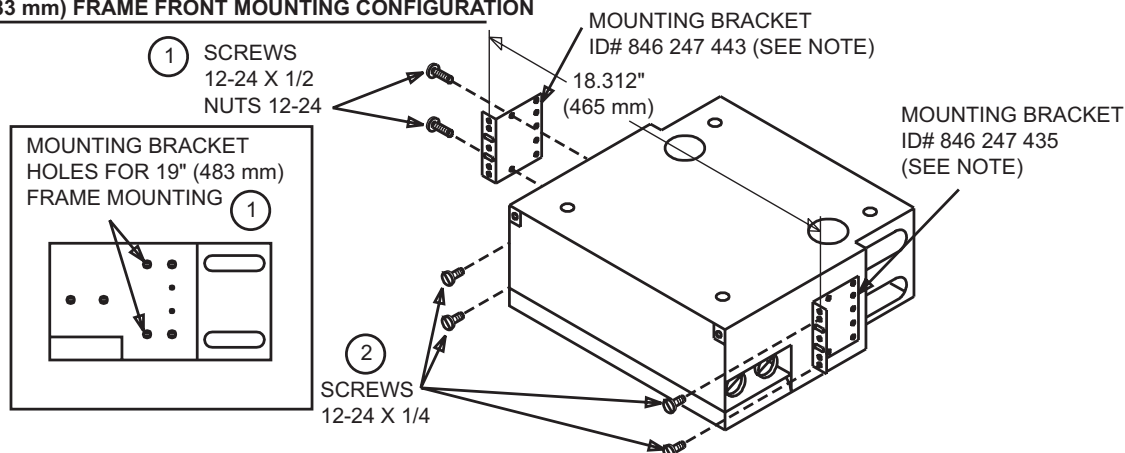


**Note:** Mounting brackets are not interchangeable. Mount brackets to shelf per ID numbers shown above.

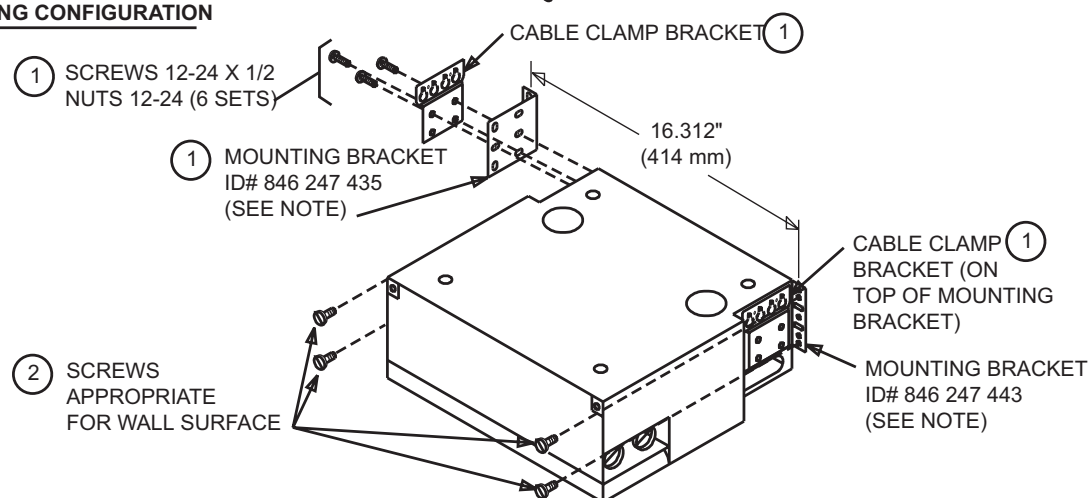
1. Position and attach each mounting bracket to shelf using proper mounting holes (see above) with two 12-24 by 1/2 screws and 12-24 nuts (with captive lockwashers).
2. Install shelf to frame with two 12-24 by 1/4 screws per mounting bracket.

## STEP 2—INSTALL SHELF MOUNTING BRACKETS AND MOUNT SHELF—OTHER THAN LGX® FRAME

### 19" (483 mm) FRAME FRONT MOUNTING CONFIGURATION



### WALL MOUNTING CONFIGURATION



**Note:** Mounting brackets are not interchangeable. Mount brackets to shelf per ID numbers shown above.

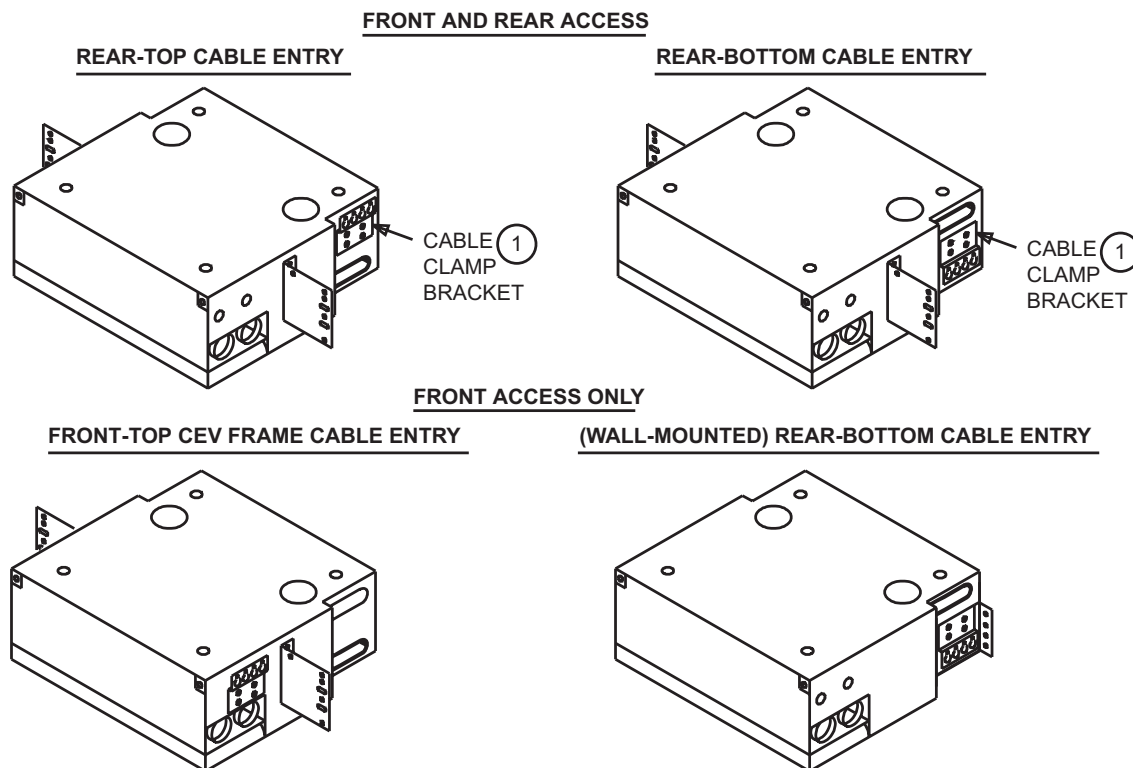
### 19-INCH (483 mm) FRONT FRAME MOUNTING:

1. Position and attach each mounting bracket to shelf using proper mounting holes (see above) with two 12-24 by 1/2 screws and 12-24 nuts (with captive lockwashers).
2. Install shelf to 19-inch frame with two 12-24 by 1/4 screws per mounting bracket.

### WALL MOUNTING:

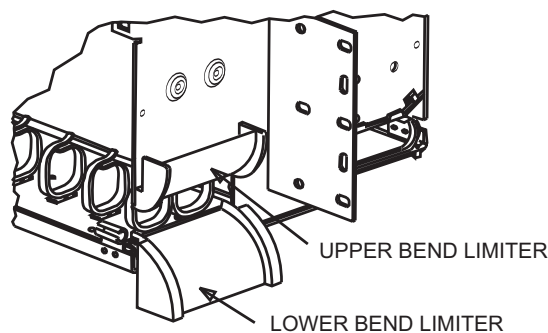
**Note:** Illustration above is for wall-mounted shelf with top cable entry. See Step 3 for wall-mounted shelf with bottom cable entry. Shelf may be mounted on 134-type bracket.

1. Position and install both shelf mounting bracket and cable clamp bracket to side of shelf with three 12-24 by 1/2 screws and 12-24 nuts (with captive lockwashers). Screws go through both brackets. Repeat same for opposite side of shelf.
2. Install shelf to wall surface with two fasteners (locally obtained) per mounting bracket. Fasteners should be appropriate for wall surface.

**STEP 3—INSTALL CABLE CLAMP BRACKETS**

**Note:** Cable clamp brackets are normally used on jumper storage shelf for securing building cables to be secured in shelf.

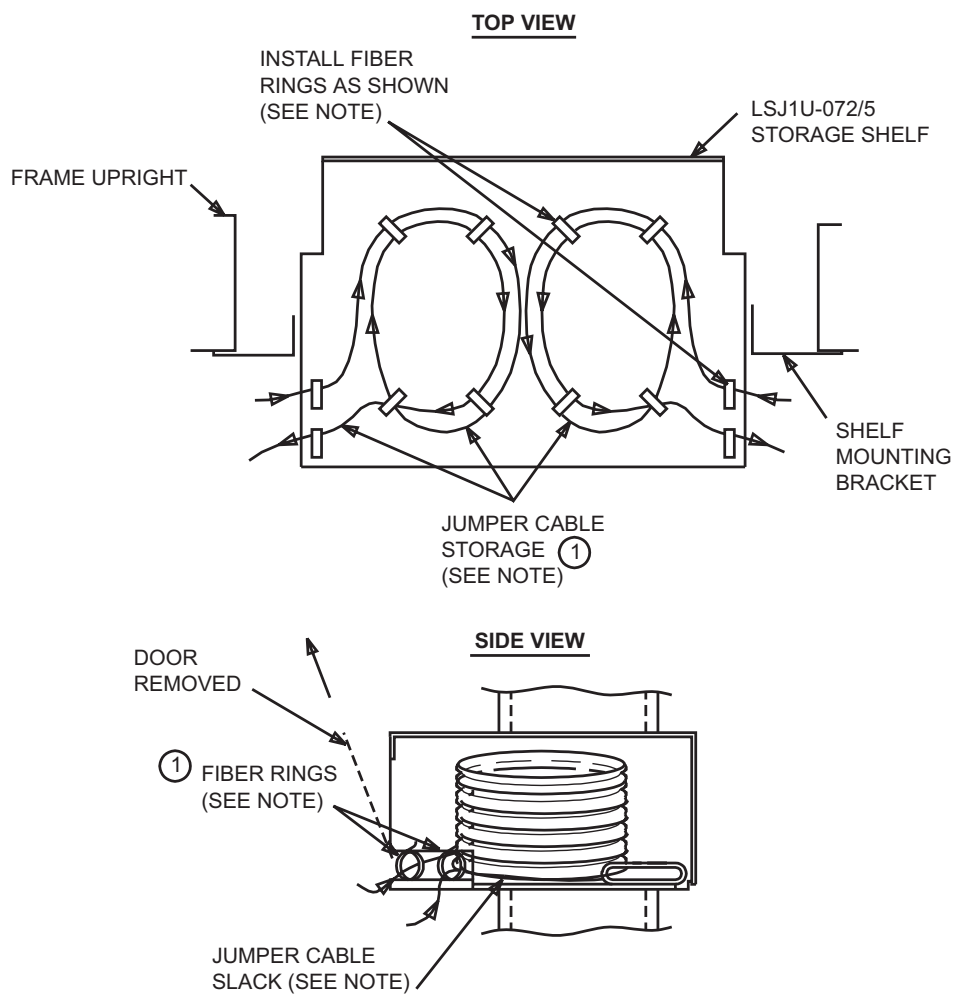
1. Position and install cable clamp brackets to sides of shelf with two 12-24 by 3/8 screws and 12-24 nuts (with captive lockwashers). For wall-mounted shelves, cable clamp brackets were previously installed with mounting brackets.

**STEP 4—INSTALL BEND LIMITERS**

1. Install upper and lower bend limiters in the jumper ports on the left and right side of the shelf. The lower bend limiters are installed by snapping them into position. The upper bend limiters are installed using double-sided foam tape provided. Make sure surface of shelf is clean, peel release paper from tape on upper bend limiter, and press into position.

**Note:** Order Comcode 107 330 565, Set Bend Limiters (Multipack), to equip existing shelves with bend limiters. Each multipack will equip five shelves.

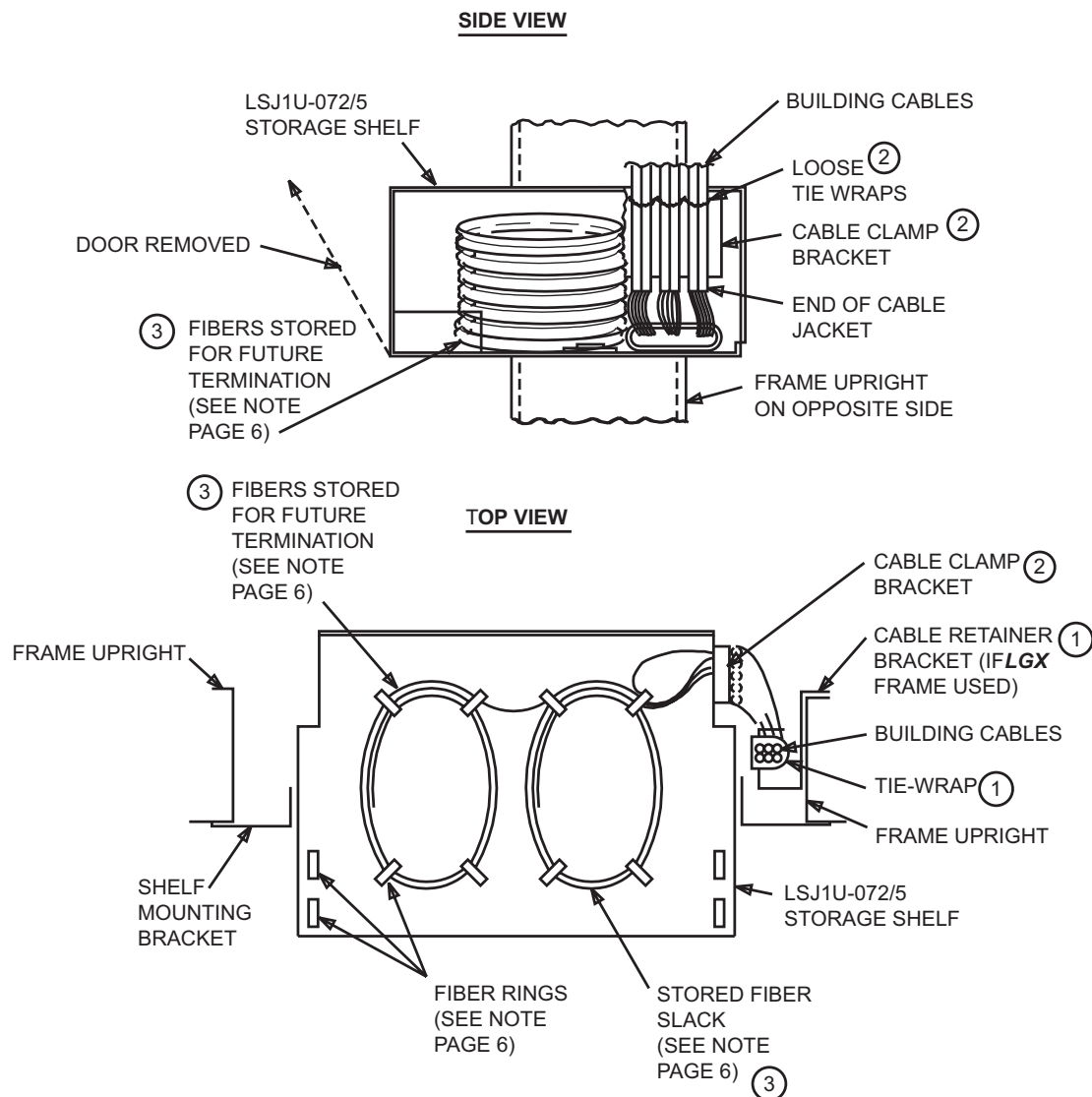
## STEP 5—STORE EXCESS JUMPER CABLE



**Note:** Fiber rings are provided for optional use in the storage shelf. The rings (shown above) are positioned to ensure an acceptable bend radius is maintained for the cables. However, the rings can only accept a limited number of cables. Additional cables may be placed in a similar radius pattern above the rings to utilize the full capacity of the shelf.

1. Place excessive jumper cable slack:
  - a. In optional fiber rings (if used) for storage.
  - b. In a coil above fiber rings (if rings are already full) maintaining a similar radius pattern.
  - c. In a coil maintaining a bend radius greater than 1-1/2 inches (381 mm) and place in shelf (if fiber rings are not used).

# STEP 6—SECURE BUILDING CABLES AND STORE SLACK OR FIBERS FOR FUTURE TERMINATION



**Note:** Ideal procedure for securing building cables is to use spiral wrap, if available, around each cable clamp bracket. Tie-wrap should only loop through spiral wrap to secure cable.

1. Route and **loosely** secure (tie-wrap) building cables to cable retainers and cable retainer brackets when used on **LGX** distributing frame.
2. **Loosely** secure (tie-wrap) buffered building cables to cable clamp bracket on shelf.
3. Route fibers into shelf and store fiber slack and/or fibers for future growth.