**OFS Fitel**
**Instruction Sheet**

**LSS1U-216/5 FIBER OPTIC**
**RIBBON SPLICE SHELF**
**INSTALLATION**

**636-299-103-13**
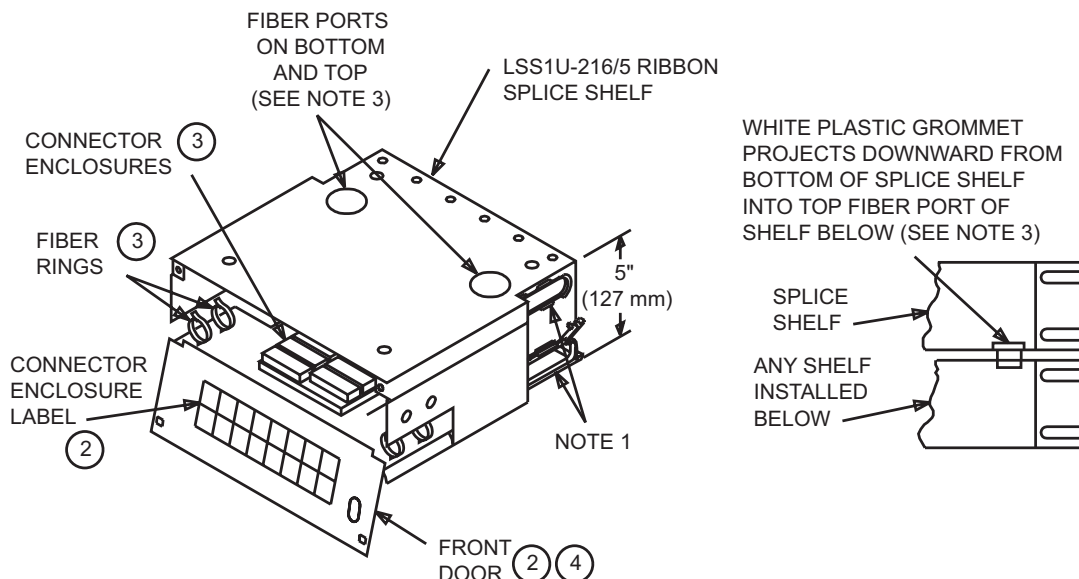**Comcode 845 866 482**

**STEP 1—CHECK PARTS AND INSTALL LABEL, GROMMETS, ENCLOSURES, AND RINGS**

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



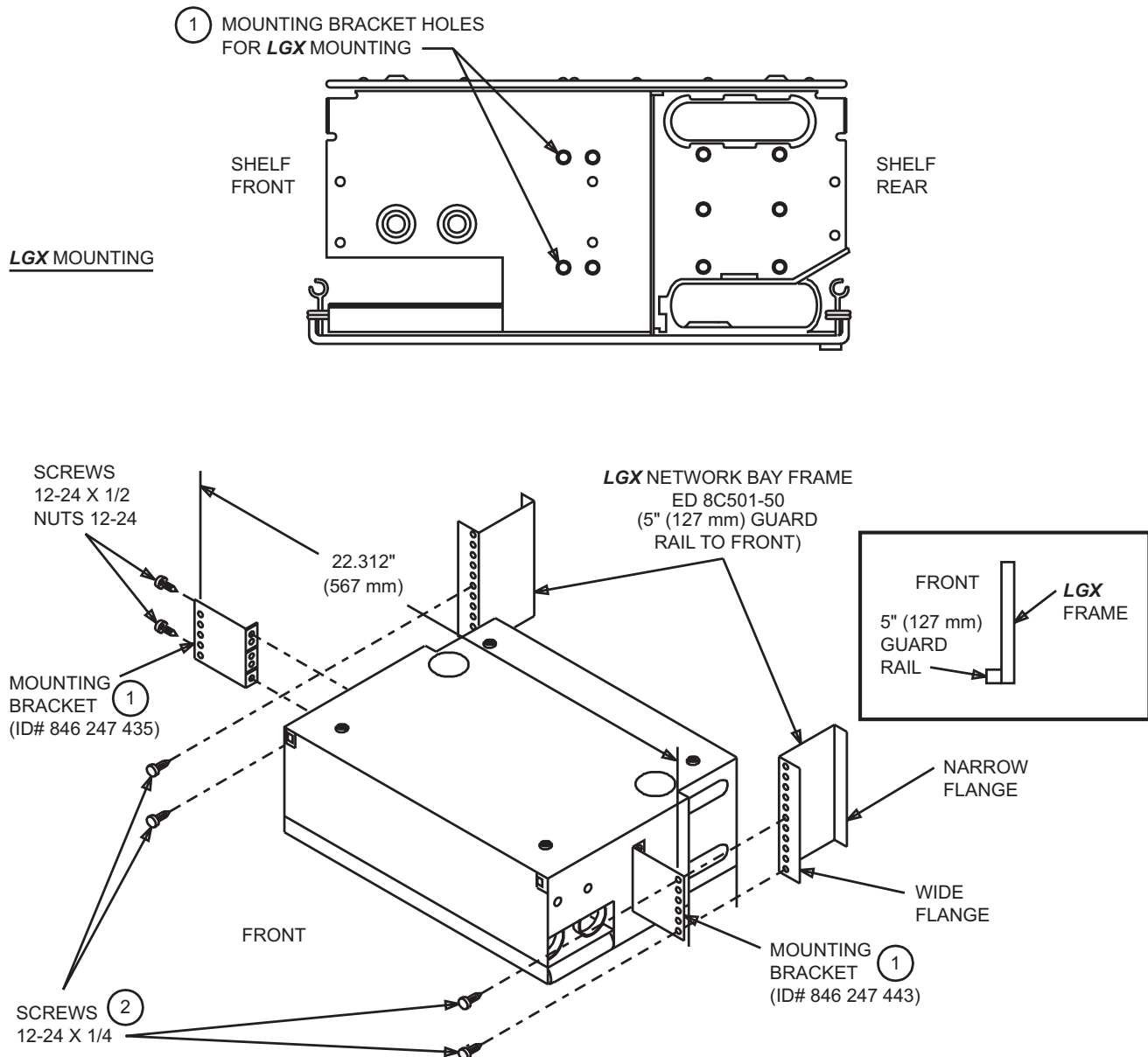| LOOSE PARTS FURNISHED WITH SHELF ① | | | | | |
|---|---|---|---|---|---|
| **ID NO.*** | **DESCRIPTION** | **QUAN** | **ID NO.*** | **DESCRIPTION** | **QUAN** |
| 846 247 443 | Mounting Bracket | 1 | — | Sm White Plastic Grommets | 12 |
| 846 247 435 | Mounting Bracket | 1 | — | Misc. Screws and Nuts | — |
| — | Connector Enclosures | 18 | 845 628 536 | Mini Fanout Brackets | 2 |
| — | Fiber Rings | 8 | 845 831 452 | Modular Fanout Panels | 2 |
| 845 626 183 | Connector Enclosure Label | 1 | — | Threaded Rods | 4 |
| 848 067 369 | Cable Clamp Brackets | 2 | — | Snap-in Fasteners | 4 |

\* 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:* If this shelf is being installed with the Termination Shelves, see 636-299-103-10, LSR1U-144/19 Lightguide Ribbon Splice and Termination Shelf Installation (Comcode 845 866 458) provided with this shelf.

*Note 3:* 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 ribbon splice shelf above another shelf, remove top fiber port plugs in shelf below. When mounting under another shelf, remove top two fiber plugs in ribbon splice shelf.

1. Verify parts against parts list.

2. Rotate front door fasteners 1/4 turn, tilt open and apply label to inner side of door.

3. Position and snap in fiber rings and connector enclosures as shown on Page 6.

4. Return front door to closed position and rotate fasteners 1/4 turn to secure.

**STEP 2—INSTALL SHELF MOUNTING BRACKETS AND MOUNT SHELF -** *LGX*®**FRAMES**
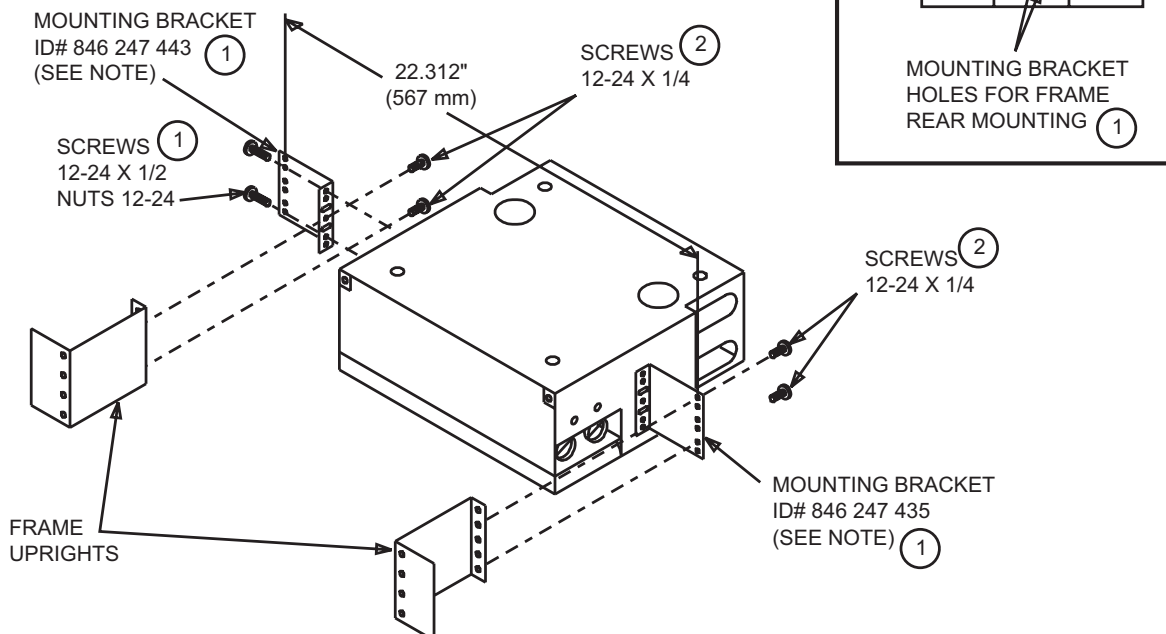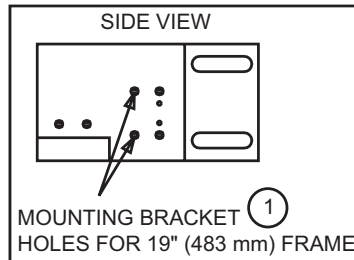


*Note:* Mounting brackets are not interchangeable. Mount brackets to shelf per ID numbers shown above.

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* ® FRAMES**

23" (584 mm) FRAME REAR MOUNTING

MOUNTING BRACKET
ID# 846 247 443
(SEE NOTE) ①

22.312"
(567 mm)

SCREWS ②
12-24 X 1/4

SCREWS ①
12-24 X 1/2
NUTS 12-24

MOUNTING BRACKET
HOLES FOR FRAME
REAR MOUNTING ①

SCREWS ②
12-24 X 1/4

FRAME
UPRIGHTS

MOUNTING BRACKET
ID# 846 247 435
(SEE NOTE) ①

*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).

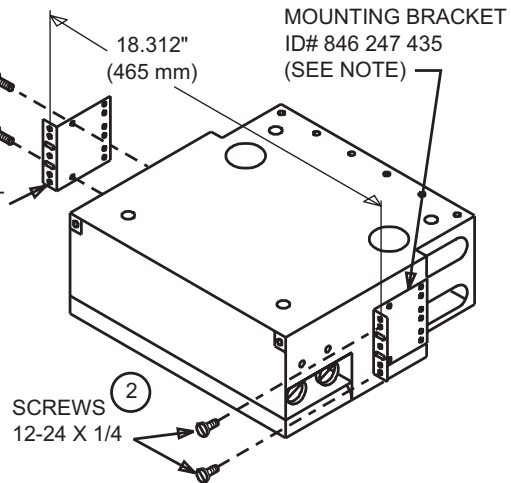2. Install shelf to frame with two 12-24 by 1/4 screws per mounting bracket.

**STEP 2—INSTALL SHELF MOUNTING BRACKETS AND MOUNT SHELF - OTHER THAN LGX®FRAMES**
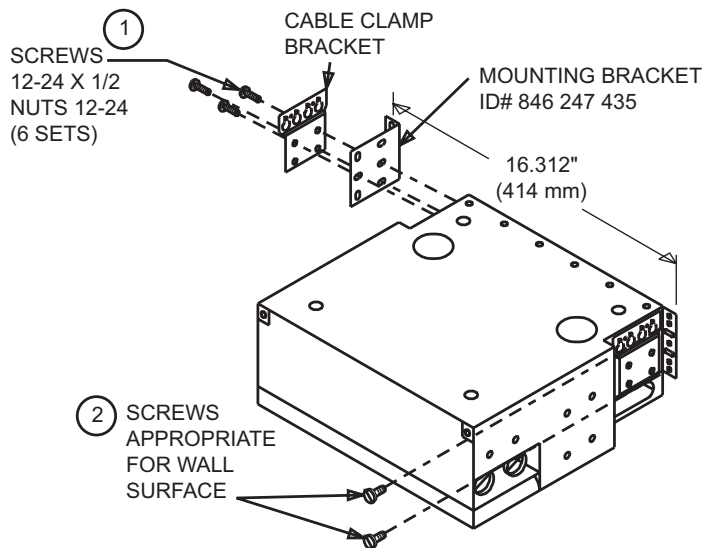
19" (483 mm) FRAME FRONT MOUNTING CONFIGURATION

SIDE VIEW

① SCREWS
12-24 X 1/2
NUTS 12-24

18.312"
(465 mm)

MOUNTING BRACKET
ID# 846 247 435
(SEE NOTE)

MOUNTING BRACKET
HOLES FOR 19" (483 mm) FRAME ①

MOUNTING BRACKET
ID# 846 247 443
(SEE NOTE)

② SCREWS
12-24 X 1/4

WALL MOUNTING CONFIGURATION

① SCREWS
12-24 X 1/2
NUTS 12-24
(6 SETS)

CABLE CLAMP
BRACKET

MOUNTING BRACKET
ID# 846 247 435

16.312"
(414 mm)

② SCREWS
APPROPRIATE
FOR WALL
SURFACE

*Note:* Mounting brackets are not interchangeable. Mount brackets to shelf per ID numbers shown above.
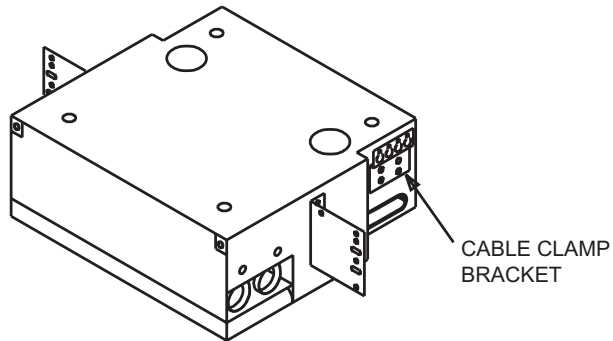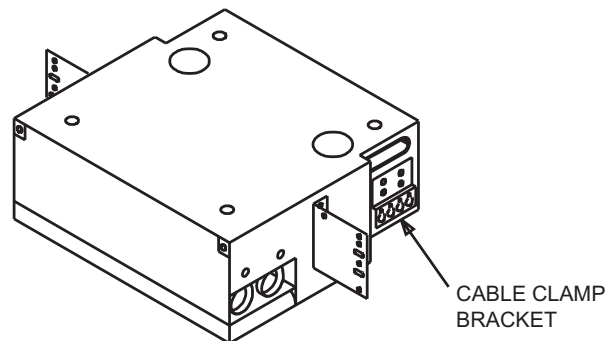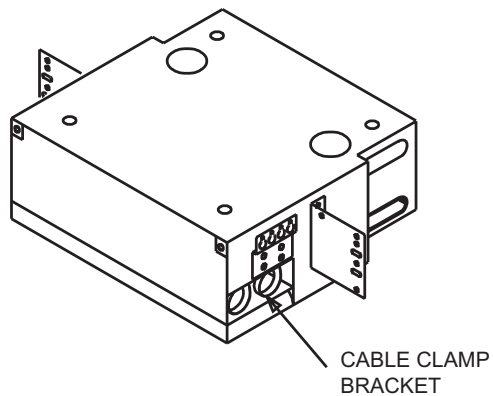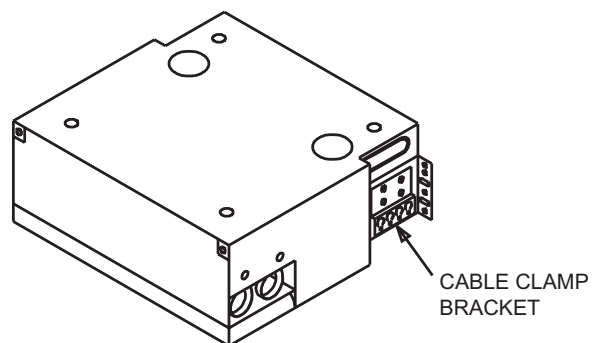
**19-INCH (483 mm) FRONT FRAME MOUNTING:**

1. Position and attach each mounting bracket to shelf using appropriate 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 (483 mm) frame with two 12-24 by 1/4 screws per mounting bracket.

**WALL MOUNTING**

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

1. Position and install both 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.
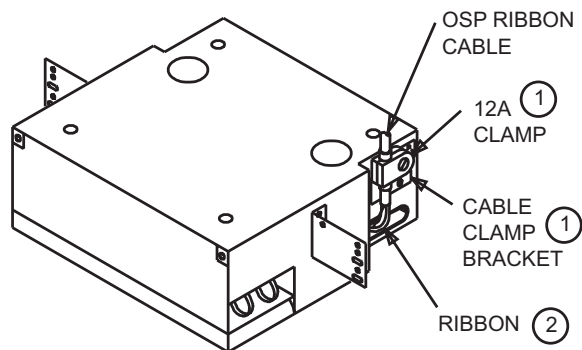
# STEP 3—INSTALL CABLE CLAMP BRACKETS AND RUBBER GROMMETS

REAR-TOP CABLE ENTRY

REAR-BOTTOM CABLE ENTRY

CABLE CLAMP
BRACKET

CABLE CLAMP
BRACKET

FRONT-TOP CEV FRAME
CABLE ENTRY

(WALL MOUNTED) REAR-BOTTOM
CABLE ENTRY

CABLE CLAMP
BRACKET

CABLE CLAMP
BRACKET

1. Position and install each cable clamp bracket 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.
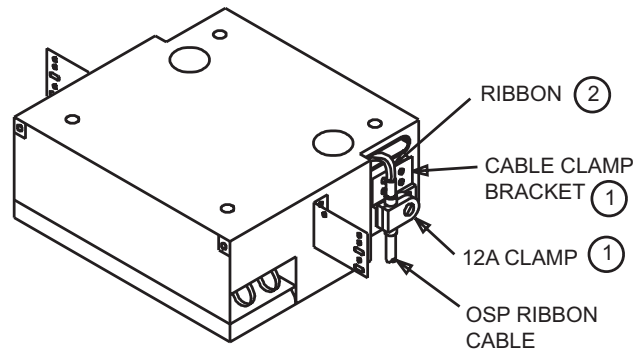
**STEP 4—SECURE AND GROUND OUTSIDE PLANT (OSP) RIBBON CABLES**
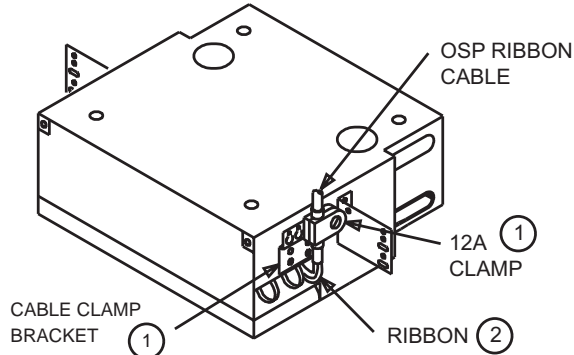
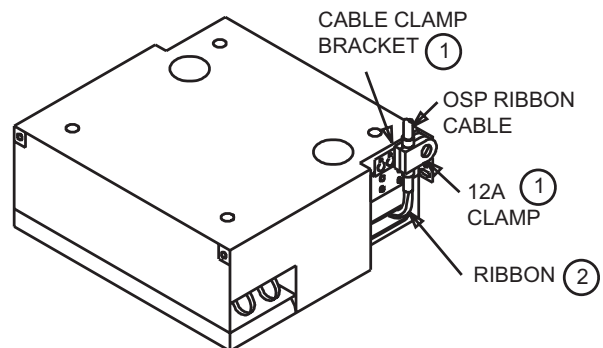FRONT AND REAR ACCESS

REAR-TOP CABLE ENTRY

OSP RIBBON CABLE

12A CLAMP ①

CABLE CLAMP BRACKET ①

RIBBON ②

REAR-BOTTOM CABLE ENTRY

RIBBON ②

CABLE CLAMP BRACKET ①

12A CLAMP ①

OSP RIBBON CABLE

FRONT ACCESS ONLY

FRONT-TOP CEV FRAME CABLE ENTRY

OSP RIBBON CABLE

12A CLAMP ①

CABLE CLAMP BRACKET ①

RIBBON ②

(WALL MOUNTED) REAR-TOP CABLE ENTRY

CABLE CLAMP BRACKET ①

OSP RIBBON CABLE

12A CLAMP ①

RIBBON ②
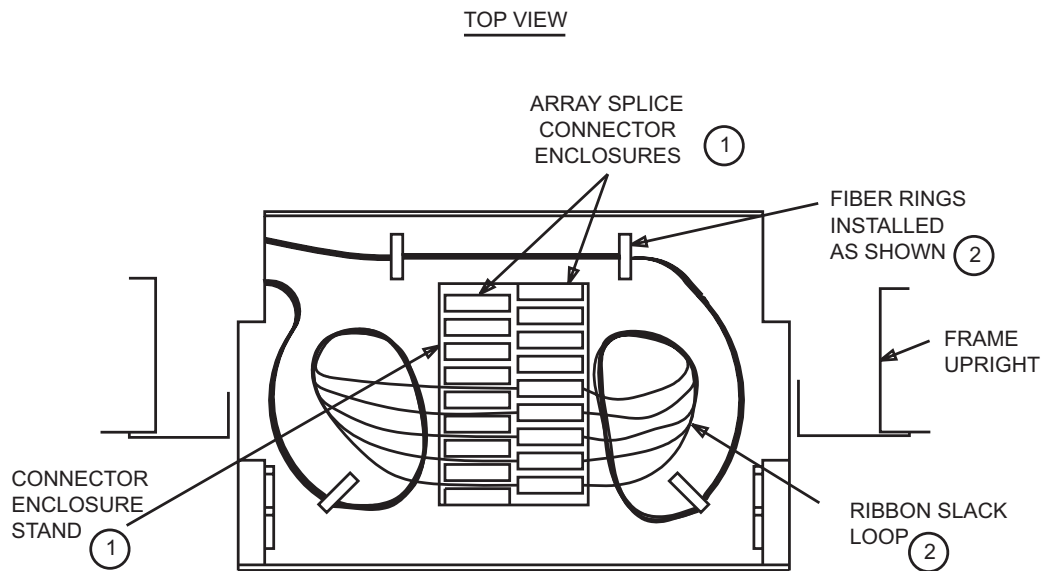
*Note:* The LSS1U-216/5 ribbon splice shelf is designed to use OSP ribbon cable with sheath-termination hardware and connectorized ribbon arrays.

1. Secure and ground OSP metallic ribbon cables to cable clamp bracket and frame with 12A1 clamps. Use 12A2 clamps for nonmetallic cable. The 12A clamps are ordered/provided separately, one per OSP cable to be secured.

2. Route ribbon into shelf.

**STEP 5—SPLICE CONNECTORIZED RIBBONS AND DRESS RIBBON SLACK**

TOP VIEW

ARRAY SPLICE
CONNECTOR
ENCLOSURES ①

FIBER RINGS
INSTALLED
AS SHOWN ②

FRAME
UPRIGHT

CONNECTOR
ENCLOSURE
STAND ①

RIBBON SLACK
LOOP ②

1. Splice connectorized ribbon arrays, place splice in connector enclosure, and insert connector enclosure into stand.

2. Route and dress ribbon slack through fiber rings making slack loops on each side of enclosure stand as shown.