

18-TYPE CABLE CLOSURE DESCRIPTION AND INSTALLATION

	CONTENTS	PAGE	1. GENERAL
1.	GENERAL	1	1.01 This section covers the description and installation of the 18-type cable closure.
2.	DESCRIPTION	2	1.02 This section is reissued to update information on location of cable spacers. Revision arrows are used to emphasize the significant changes.
3.	CABLE CLOSURE LOCATION	4	1.03 The 18-type cable closure is used to close sheath openings in plastic-insulated, copper conductor aerial cables at branch or in-line splices.
4.	INSTALLATION	6	

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

2. DESCRIPTION

2.01 Figure 1 illustrates the 18-type cable closure.

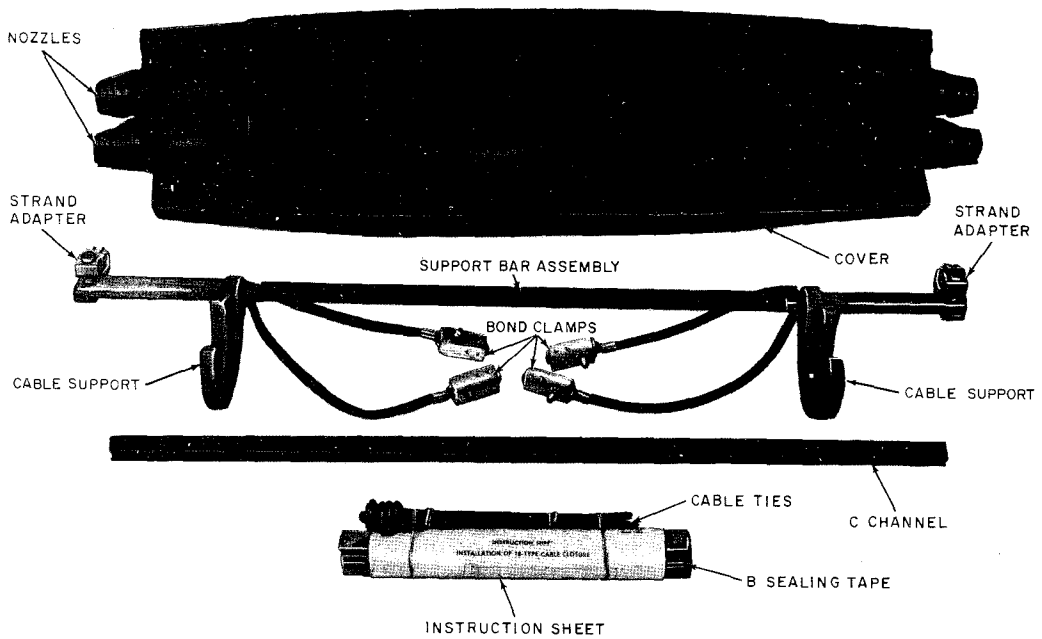


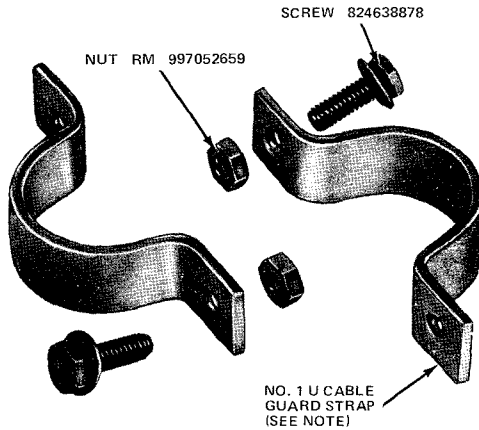
Fig. 1—18-Type Cable Closure

2.02 Table A lists the 18-type cable closures and the maximum cable size for each type closure.

TABLE A
18-TYPE CABLE CLOSURES

CODE	SIZE OF CLOSURE (INCHES)			CABLE DIAMETER (INCHES)	SPLICE CAPACITY	
	LENGTH	HEIGHT	WIDTH		710 CONNECTORS	MAXIMUM SPLICE DIAMETER
18A1	29.7	7.9	4.1	0.5 to 1.0	200 pairs	3.25 inches
18B1	33.2	10.3	6.2	1.0 to 2.2	800 pairs	5.9 inches
18C1	31.2	12.4	7.5	2.2 to 3.0	1200 pairs	7.1 inches

2.03 The 197A adapters (Fig. 2) are available for mounting the 18-type cable closures at locations where more than one cable is lashed to the strand.



NOTE:
WHEN THE THROUGH CABLE IS LARGER THAN 1.4 INCHES IN DIAMETER, NO. 2 U CABLE GUARD STRAP SHOULD BE USED AND MUST BE ORDERED SEPARATELY.

Fig. 2—197A Adapter

2.04 The 280-type adapters (Table B) are available for use where it is necessary for two cables to enter into one nozzle of an 18-type cable closure.

TABLE B

280-TYPE ADAPTERS

CODE*	FOR USE WITH (CLOSURE)	CABLE DIAMETER (IN.)	
		MIN	MAX
280B1	18B-Type	0.4	1.0
280C1	18C-Type	0.4	1.0

* Additional bonding for extra cable is provided.

3. CABLE CLOSURE LOCATION

3.01 Figures 3, 4, 5, and 6 illustrate the locations for mounting the cable closures. These locations are for both lashed or self-supporting cables.

3.02 The 18-type cable closures may be wall mounted on a 51B bracket as described in Section 631-020-200 of the Bell System Practices.

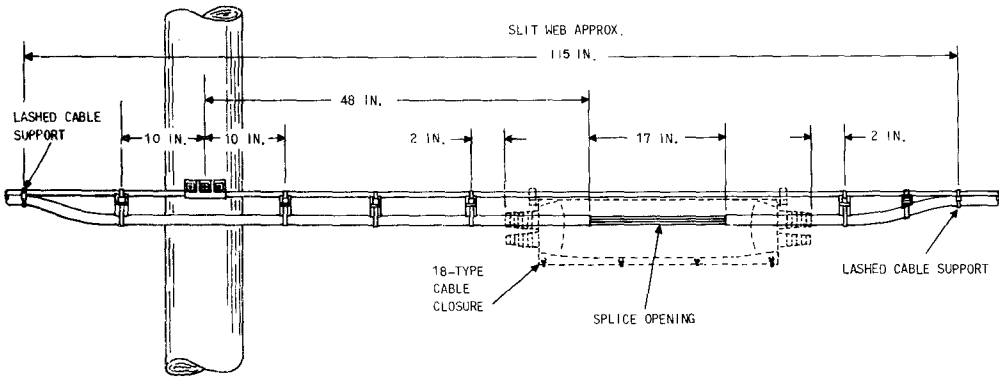


Fig. 3—Self-Supporting Cable—In-Line Pole

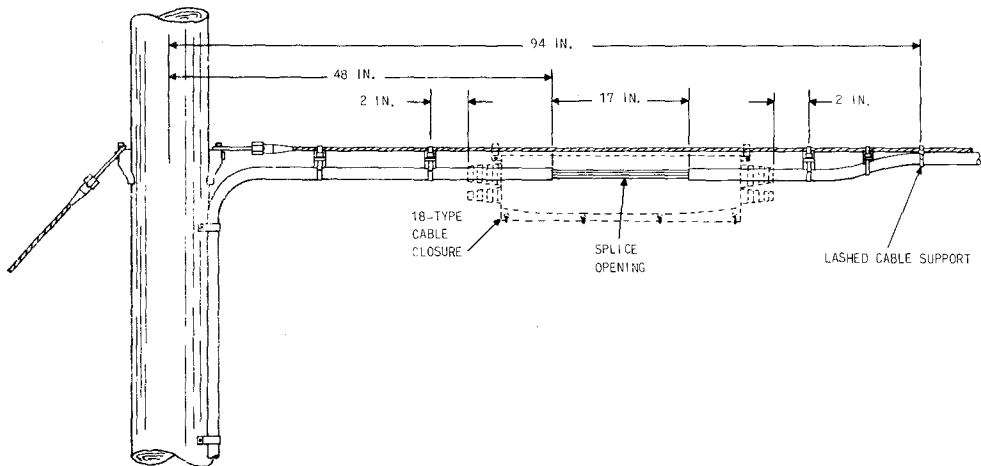


Fig. 4—Self-Supporting Cable—Dead-End Pole

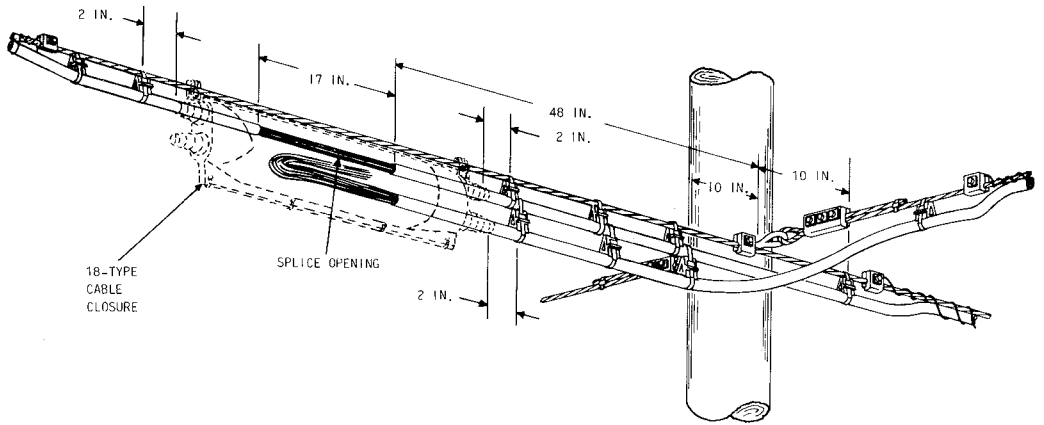


Fig. 5—Lashed Cable—In-Line Pole

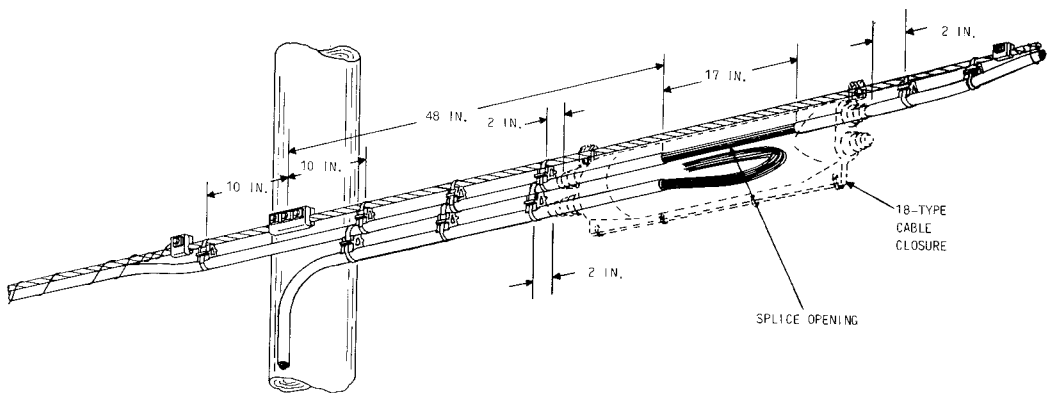


Fig. 6—Lashed Cable—Lateral Pole

4. INSTALLATION

4.01 Figures 7, 8, 9, 10, 11, and 12 illustrate the installation of an 18-type cable closure.

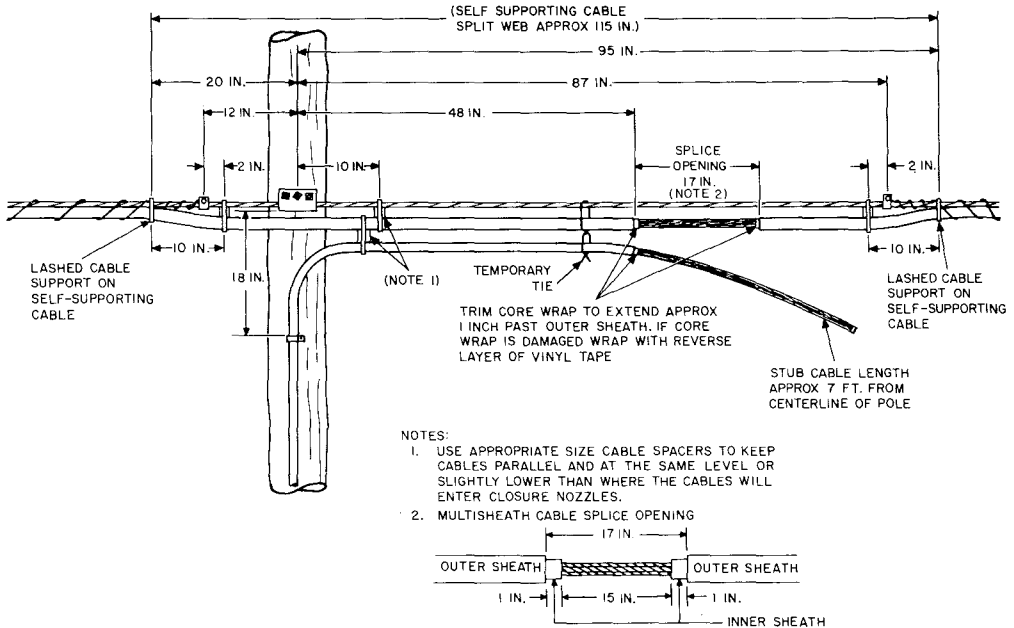
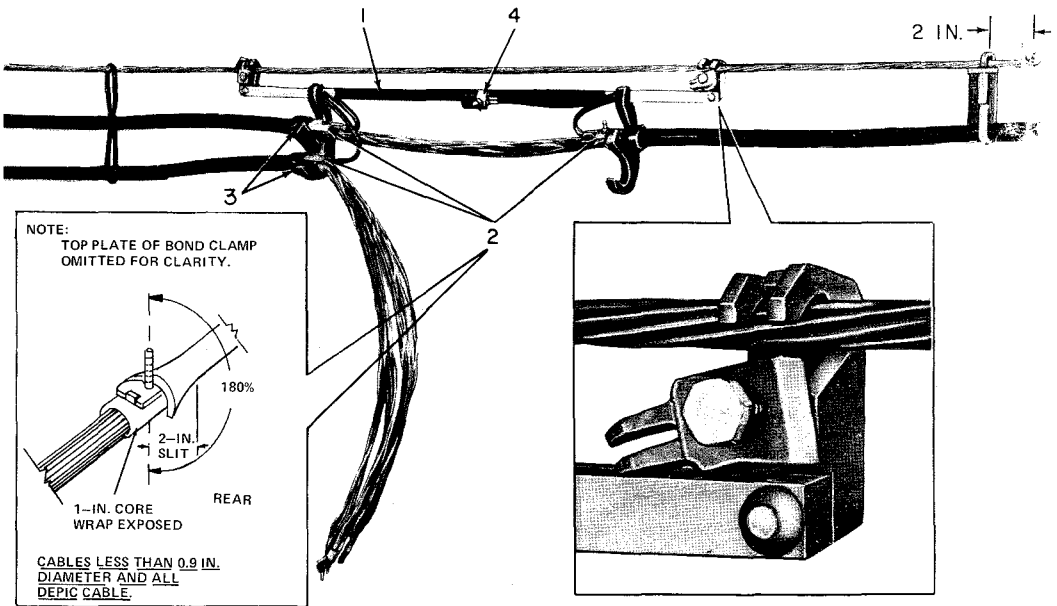


Fig. 7—Installation of 18-Type Cable Closure—Step 14



- 1— CENTER SUPPORT BAR ASSEMBLY OVER SHEATH OPENING ALLOWING STRAND ADAPTER ON ONE END TO PROVIDE TEMPORARY SUPPORT.

NOTE:

IT IS NOT NECESSARY TO REMOVE JACKET FROM SELF-SUPPORTING CABLE STRAND WHEN USING THIS STRAND ADAPTER.

- 2— INSTALL BOND CLAMPS BY SLIDING INNER SHOE OF BOND CLAMP BETWEEN CORE WRAP AND METAL SHIELD UNTIL THREADED STUD HITS END OF SHEATH. (TO TIGHTEN, USE 216-TYPE TOOL ONLY.)

NOTE:

ON CABLES LESS THAN 0.9 IN. IN DIAMETER AND ALL DEPIC CABLE, SLIT THE SHEATH APPROXIMATELY 2 IN. ON BOTTOM SIDE TO ALLOW CLAMP TO SLIDE IN ON TOP SIDE. WRAP CLAMP AND SLIT AREA WITH VINYL TAPE.

- 3— PLACE DRIP COLLARS:

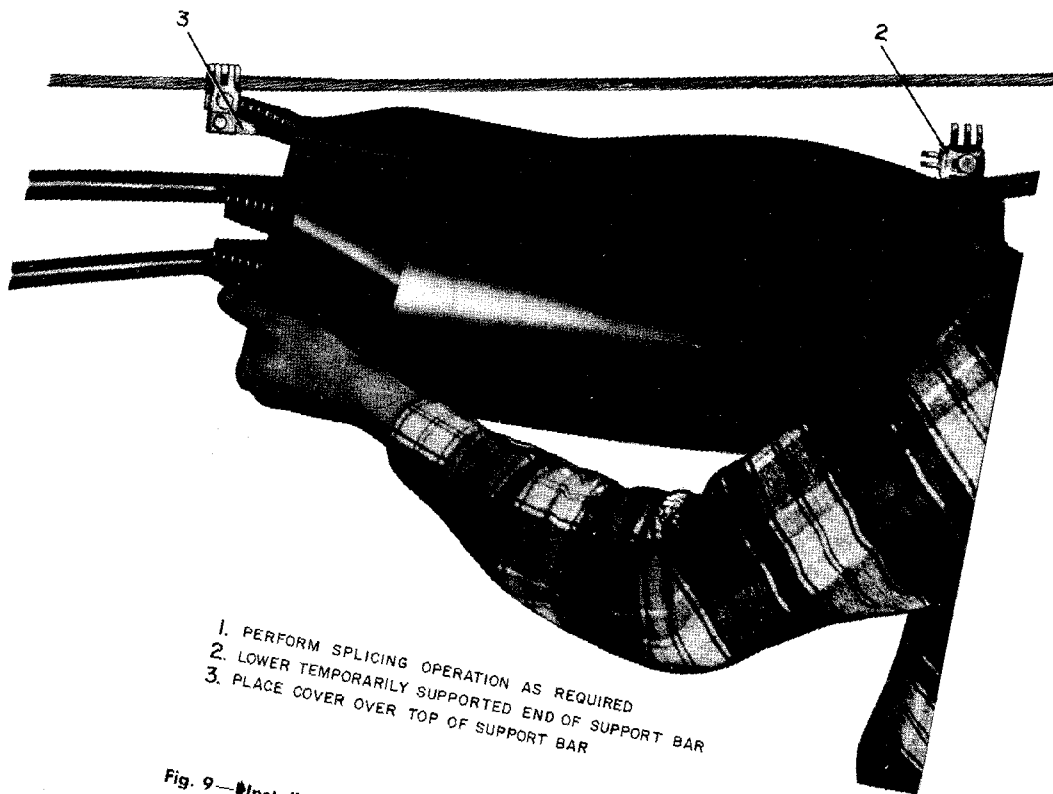
- 1— SCUFF SHEATH TO 3 IN. OUTSIDE EACH CABLE SUPPORT.
- 2— PLACE 2 LAYERS OF B SEALING TAPE AROUND CABLE.
- 3— WRAP B SEALING TAPE WITH 2 LAYERS OF VINYL TAPE.

- 4— TAPE AND STORE SPARE BOND CLAMP(S).

NOTE:

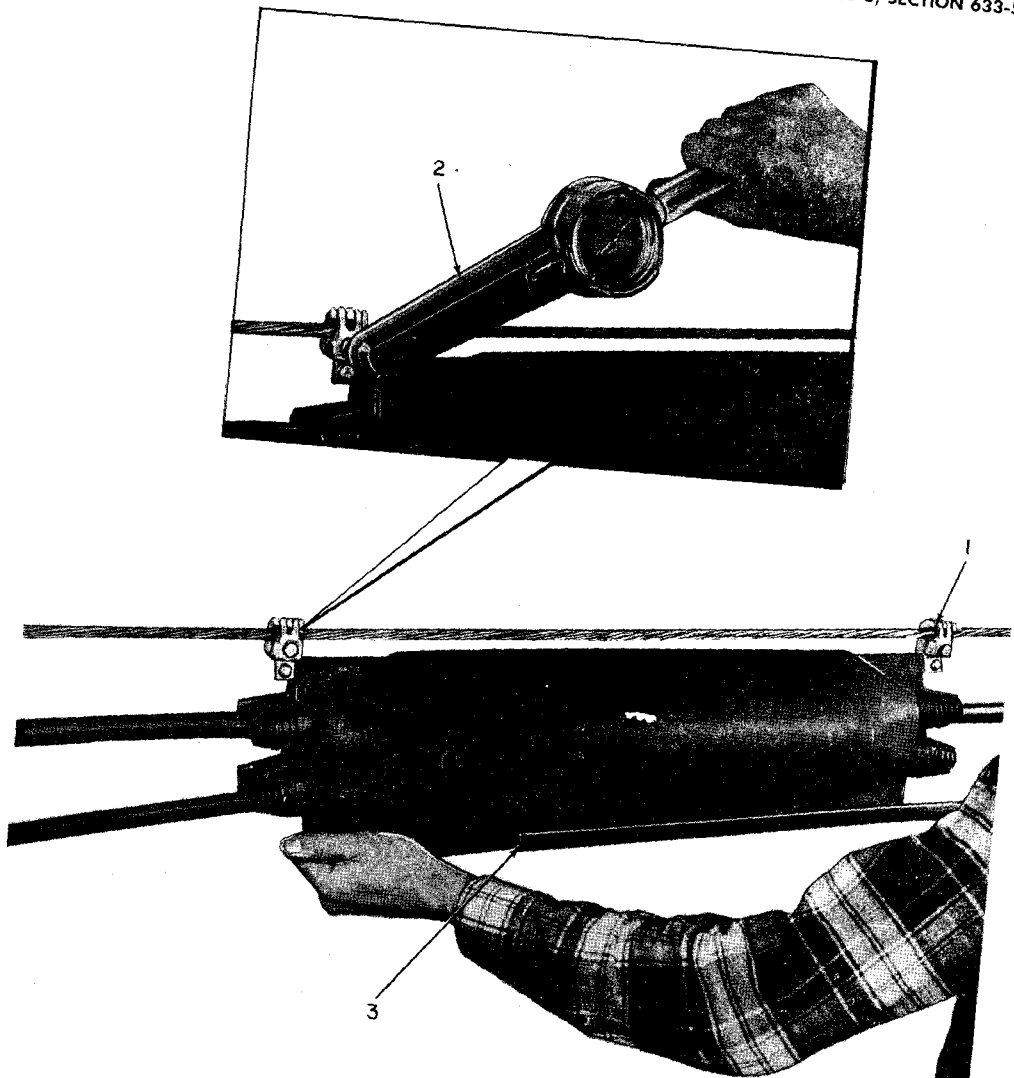
A 280-TYPE ADAPTER IS AVAILABLE FOR USE WHERE IT IS NECESSARY FOR 3 CABLES TO ENTER ONE END OF THE CLOSURE.

Fig. 8—Installation of 18-Type Cable Closure—Step 2



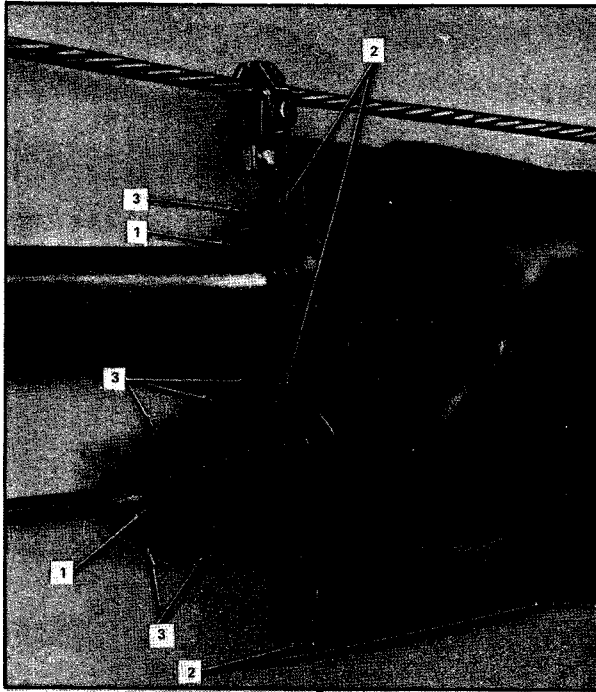
1. PERFORM SPLICING OPERATION AS REQUIRED
2. LOWER TEMPORARILY SUPPORTED END OF SUPPORT BAR
3. PLACE COVER OVER TOP OF SUPPORT BAR

Fig. 9—Installation of 18-Type Cable Closure—Step 3



1. REATTACH STRAND ADAPTER
2. TORQUE BOTH STRAND ADAPTERS TO A MINIMUM OF 75 INCH-POUNDS. DO NOT EXCEED 100 INCH-POUNDS
3. SLIDE C CHANNEL OVER BASE OF COVER.

Fig. 10—Installation of 18-Type Cable Closure—Step 4



1. CUT END OF NOZZLE TO MATCH CABLE DIAMETER.

NOTE:

IF CABLE DIAMETER IS SMALLER THAN SMALLEST STEP ON NOZZLE, CUT A SMALL DIAMETER HOLE IN THE END OF THE NOZZLE TO MATCH THE CABLE DIAMETER.

2. PLACE AND TIGHTEN CABLE TIES IN THE EIGHT SLOTS PROVIDED AROUND THE PERIMETER OF THE COVER.
3. PLACE TWO (MAXIMUM) CABLE TIES ALONG THE TOP AND TWO (MAXIMUM) CABLE TIES ALONG THE BOTTOM OF EACH NOZZLE. THE TIES SHOULD BE LOCATED ON THE OUTER ENDS OF THE NOZZLES AND MIDWAY BETWEEN THE FIRST CABLE TIE ON THE NOZZLE AND THE BODY OF THE CLOSURE.

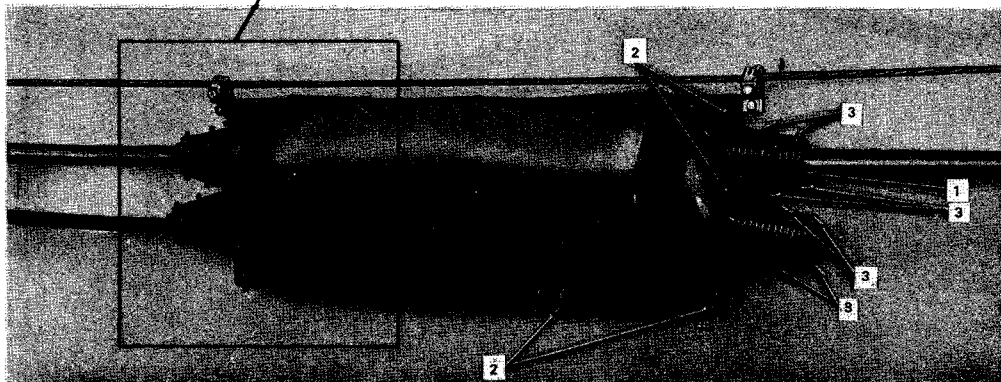


Fig. 11—Installation of 18-Type Cable Closure—Step 5

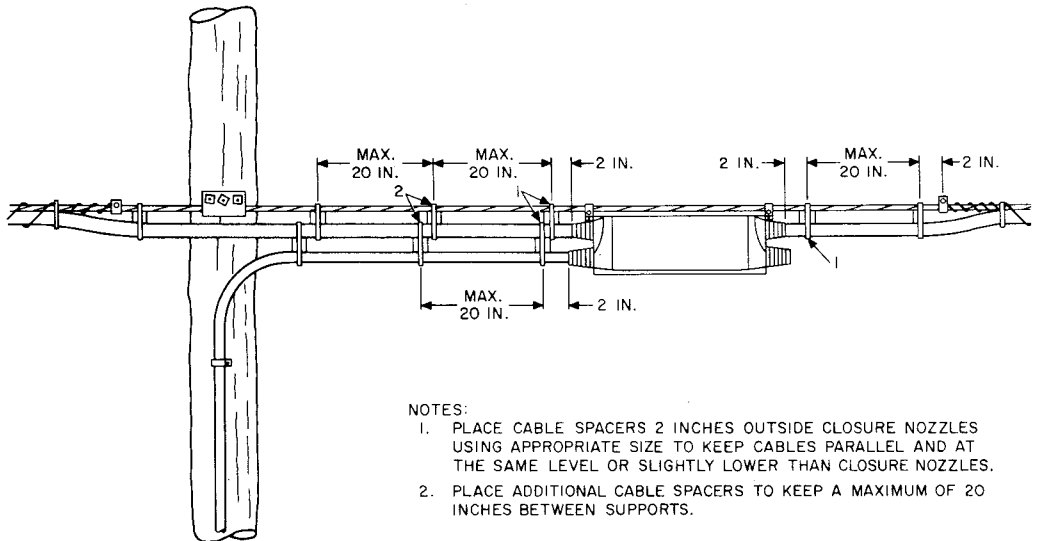


Fig. 12—Installation of 18-Type Cable Closure—Step 6

4.02 Where more than one cable is lashed to a strand, the 197A adapter must be used as shown in Fig. 13. Assemble the 197A adapter on the support bar of the 18-type cable closure before centering the assembly over sheath opening.

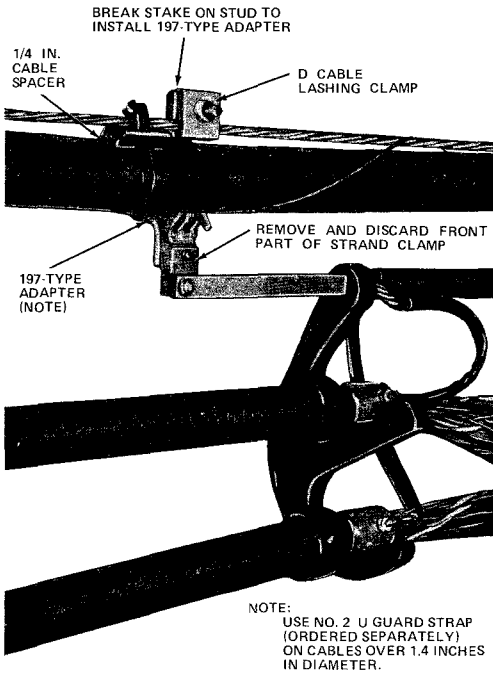


Fig. 13—197A Adapter Installed

4.03 Where a closure is placed on mechanically protected cable, install bond clamps as shown in Fig. 14. The D bond clamps and straps must be ordered separately, when required.

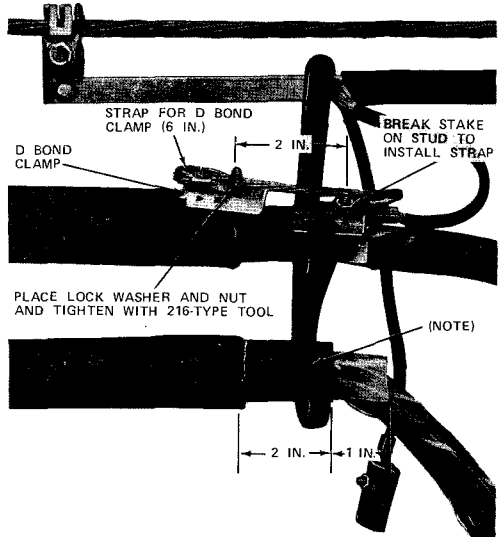
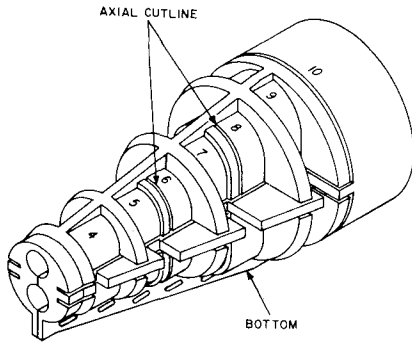


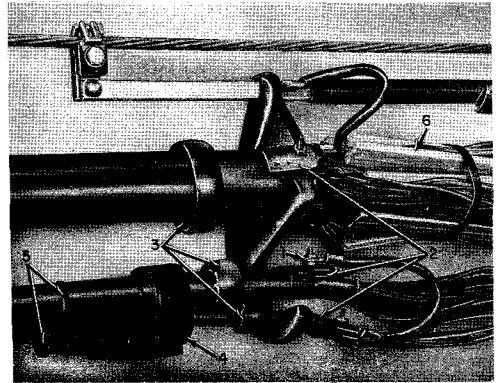
Fig. 14—Bonding Mechanically Protected Cable

4.04 Where it is necessary for two cables to enter one nozzle of an 18-type cable closure, install a 280-type adapter as shown in Fig. 15, 16, and 17.



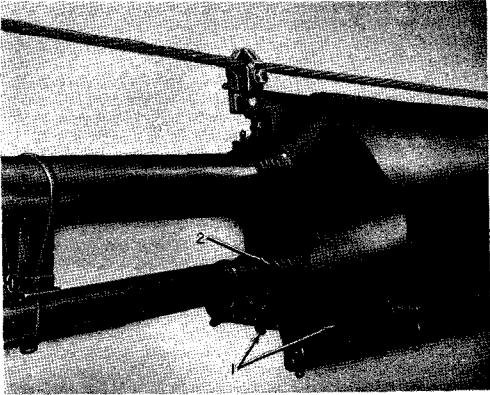
1. Trim adapter through appropriate cut line to match cable diameter. Larger cable should be positioned on top.

Fig. 15—Trimming 280-Type Adapter



1. Completely remove nut from lower bond clamp (from support bar assembly) to break the "stake" on the stud threads. Replace nut and place bond strap, washer, and nut (from adapter).
2. Install bond clamps in accordance with standard procedures (slit cable where required).
3. Scuff sheath and form drip collars. Lower drip collar shall be closest to hanger with above collars stepped outward.
4. Position adapter over the two cables in approximate location of cover nozzles.
5. Secure with tie wraps, one through end slot around web and one around top cable and slot.
6. Perform splicing operation as required.

Fig. 16—Installing 280-Type Adapter



1. Install cover and, if necessary, reposition adapter to line up with cable tie slots of cover.
2. Trim bottom closure nozzle for adapter (at 2-inch mark for 18B-type, 2.8-inch mark for 18C-type). Trim other nozzles as required.
3. Complete installation in accordance with standard procedures.

Fig. 17—Completed Installation With 280-Type Adapter