BURIED WIRE

JOINING BURIED WIRE

ENCAPSULATION METHOD OF JOINING

CONTENTS PAGE

1. GENERAL

1.01 This section describes the method of joining either B service wire or E buried wire using the encapsulation method.

1.02 This section is reissued to include the B service wire closure and delete information pertaining to the Pee Wee closure. Since this is a general revision arrows ordinarily used to show changes have been omitted.

1.03 Section 629-030-115 describes buried wire.

Note: Section 632-205-201 lists the conductor combinations that can be joined with B wire connectors.

1.04 In wet weather, joining of the wires should be done under a shelter or tent to keep surfaces of the wires and the interior of the closure dry.

2. MATERIALS

2.01 The following materials are required to join and encapsulate service wires:

(a) B service wire closure (Fig. 1), is an encapsulation splice kit which contains the following components.

(1) B encapsulant—90 gram size for encapsulating splice.

(2) Bond clamp to mechanically and electrically bond the buried wire shield.

(3) Two end caps

(4) Two pieces of tubing—one split and one with an elongated slot to contain the B encapsulant

(5) Instruction sheet—procedures for installing closure.

(b) B wire connector—Used for joining the conductors of service wires.

3. PRECAUTIONS

3.01 Do not open the outer bag which contains the encapsulant until ready for use. The foil bag is a moisture barrier bag.

Warning: Avoid prolonged or repeated contact with skin or breathing of vapor. Use only with adequate ventilation. In case of contact with eyes, flush with flowing water for at least 15 minutes and get medical attention.

3.02 In cold weather preheat encapsulant to approximately 60 degrees before mixing. ***DO NOT HEAT WITH TORCH.***

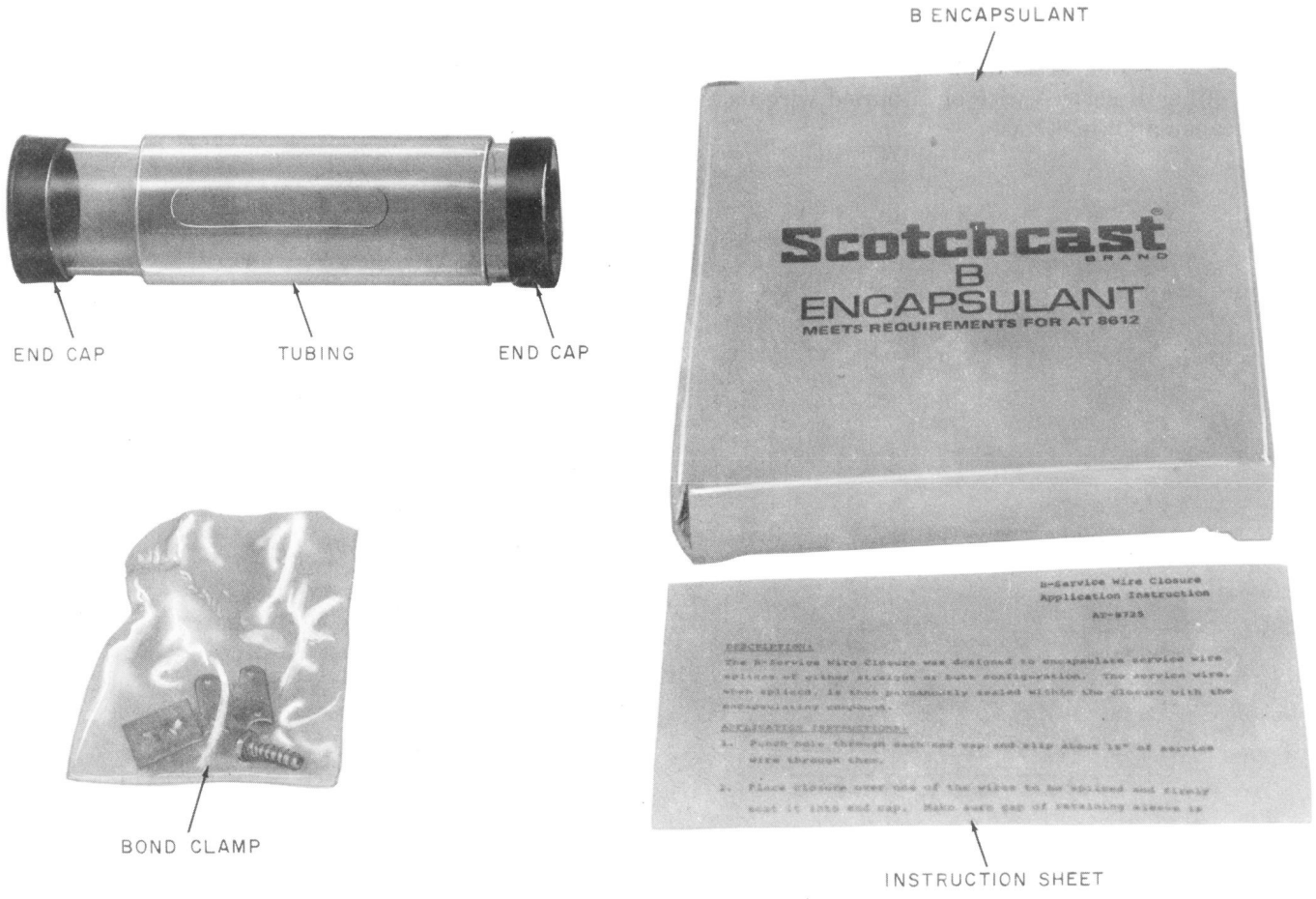


Fig. 1—B Service Wire Closure

4. INSTALLATION AT BUTT SPLICE

Note: The procedures for installing the B service wire closure on B service wire, or E buried wire are identical.

4.01 Punch out the holes in one end cap and slip over the ends of the service wires as shown in Fig. 2. Remove 3 inches of the outer PVC jacket from the service wire.

4.02 Install bond clamp on the exposed metallic shields of the two service wires as shown in Fig. 3 and tighten the screw.

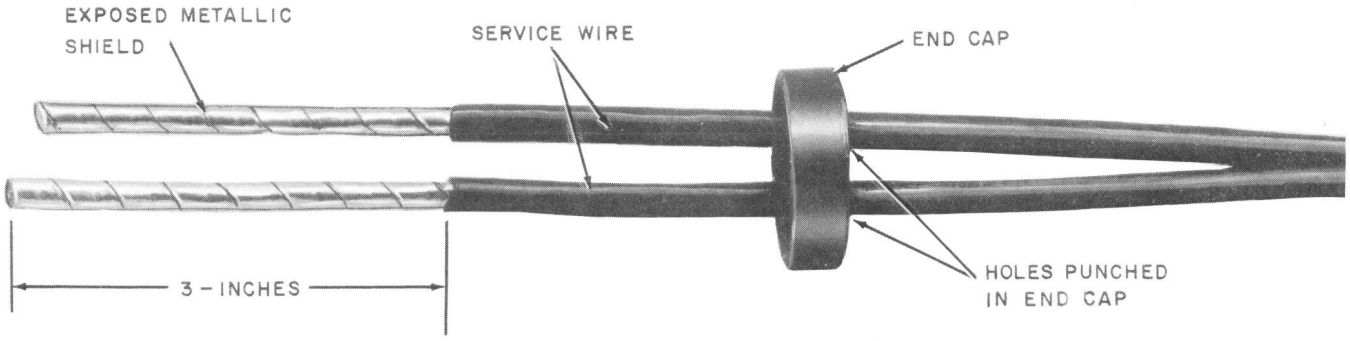


Fig. 2—Preparing Service Wire

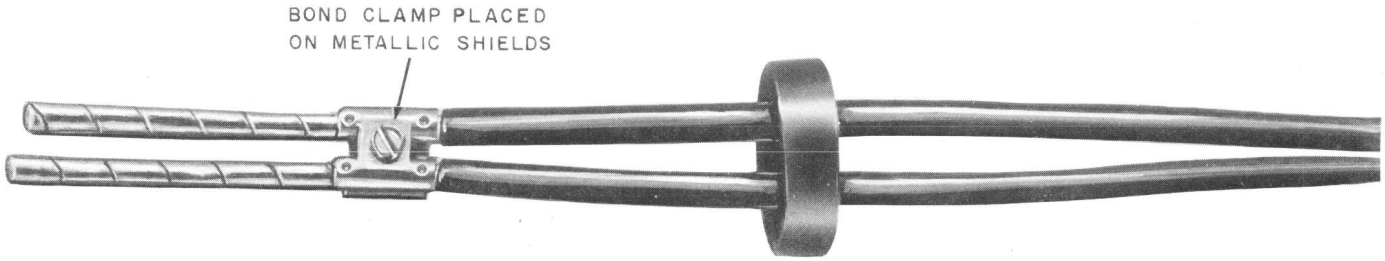


Fig. 3—Installed Bond Clamp

4.03 Remove the exposed metallic shield and inner sheath insulation as shown in Fig. 4, then remove 3/4 inch of insulation from each conductor.

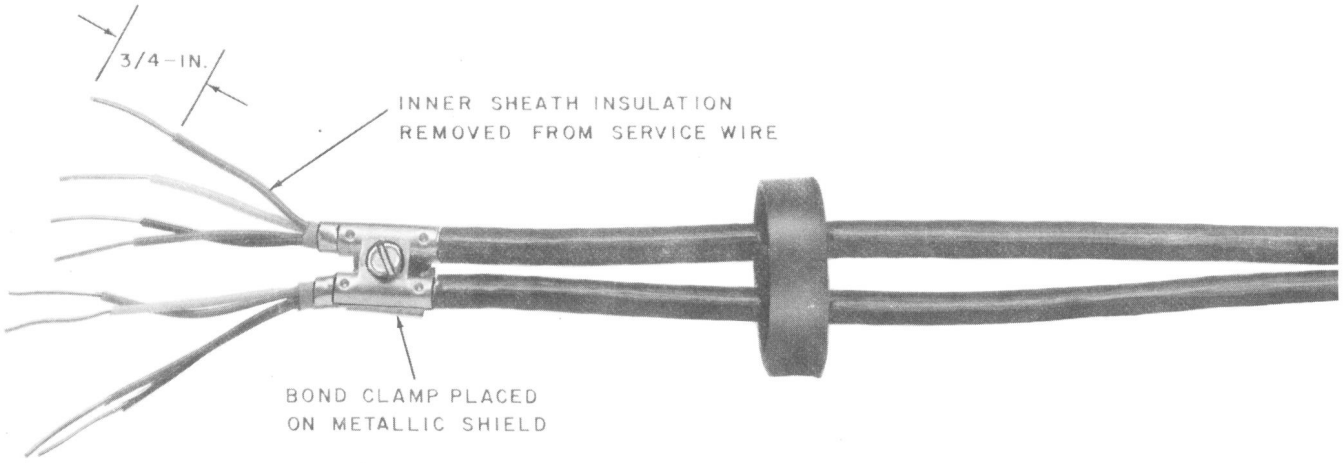
4.04 Using B wire connectors, splice the conductors, color to color, or tracer to tracer, as shown in Fig. 5.

4.05 Slip the B service wire closure over the completed splice as shown in Fig. 6. The split and elongated slot of the tubes should be in alignment.

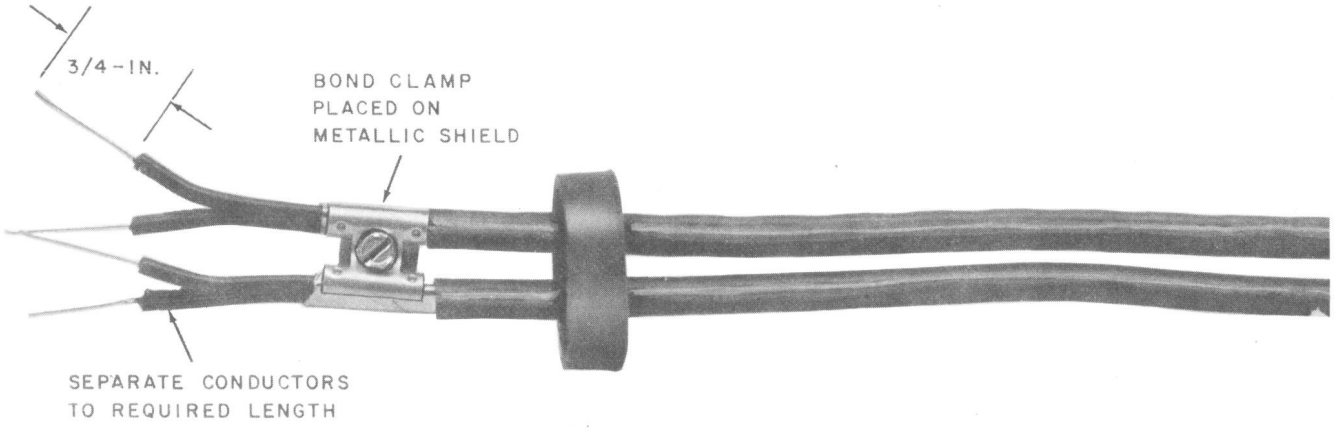
4.06 Remove the plastic bag containing the B encapsulant from the protective bag. If the temperature is below 60 degrees the compound should be placed in a warm place before mixing to shorten the set-up time.

4.07 Mix the encapsulant per instruction on the protective bag.

4.08 Cut off a corner of plastic bag and squeeze the compound into the closure until the compound runs out the filling slot.

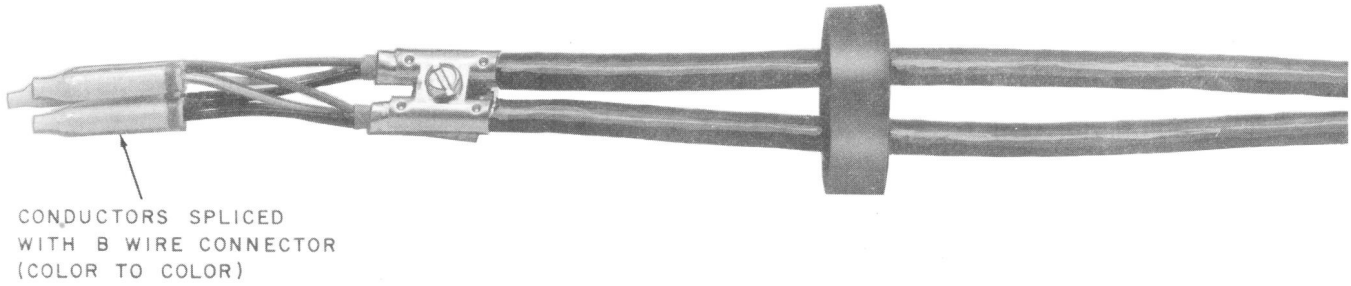


B SERVICE WIRE



E BURIED WIRE

Fig. 4—Prepared Wire—Butt Splice



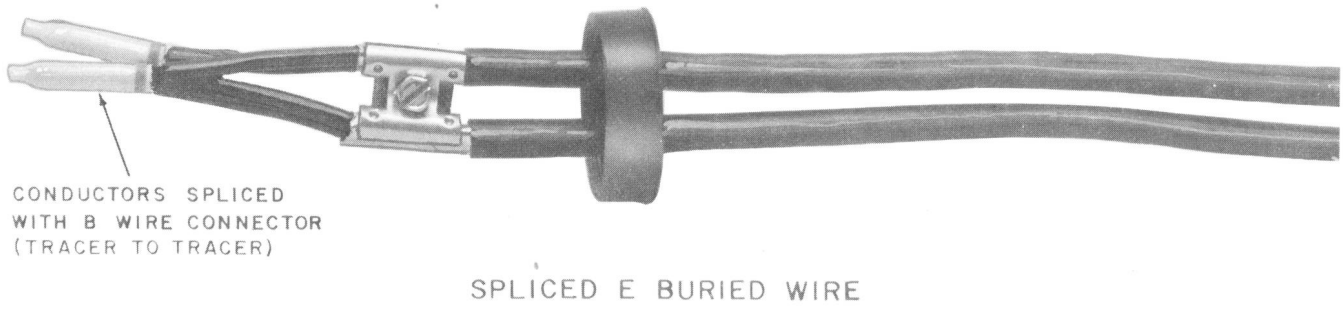


Fig. 5—Spliced Wires—Butt Splice

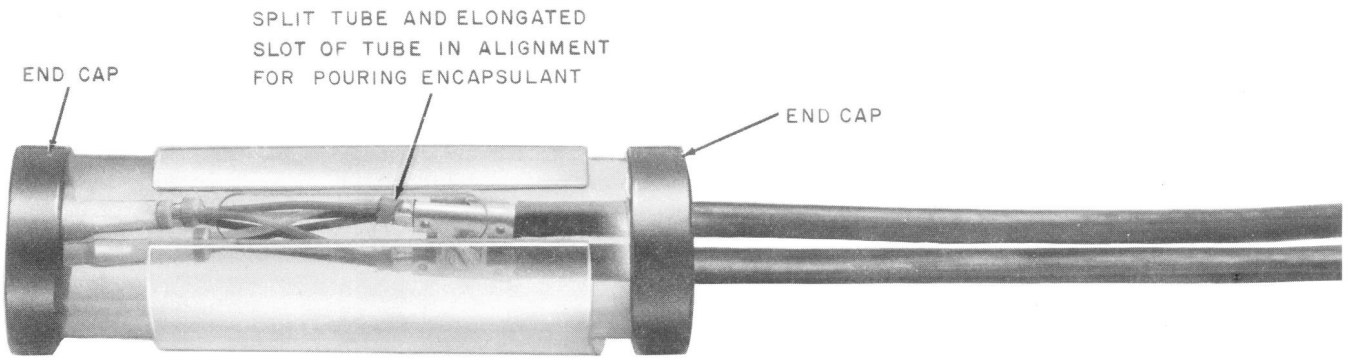


Fig. 6—Closure Installed Over Completed Splice

4.09 Rotate the outer tube to close the filling slot.

4.10 The compound will begin to set within approximately 5 minutes. At this time the splice may be placed in the trench and covered with no additional protection .

5. INSTALLATION AT IN-LINE SPLICE

5.01 The procedures for installing the B service wire closure at an in-line splice are illustrated in Fig. 7, 8, 9, and 10.

5.02 After completing the splice, slip the closure over the completed splice and encapsulate as outlined in 4.05 through 4.10.

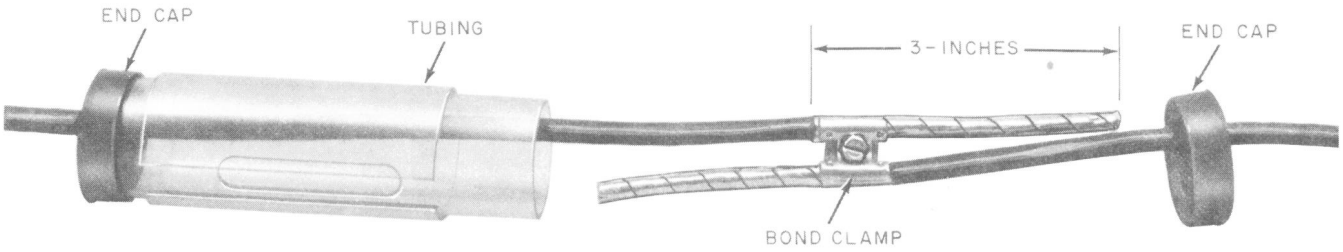
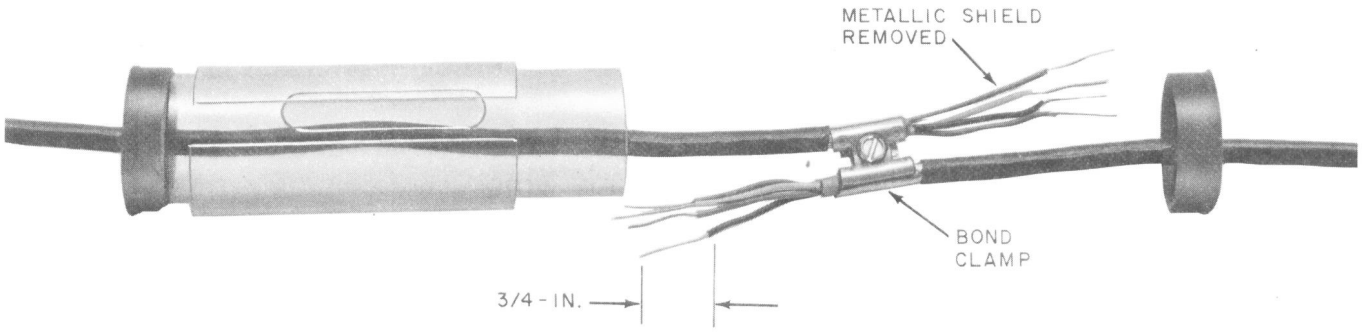
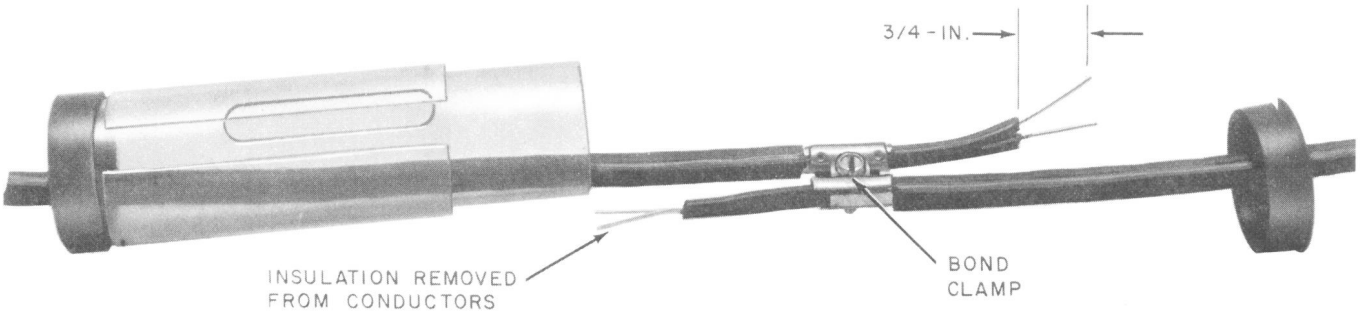


Fig. 7—Preparing Wires at In-Line Splice

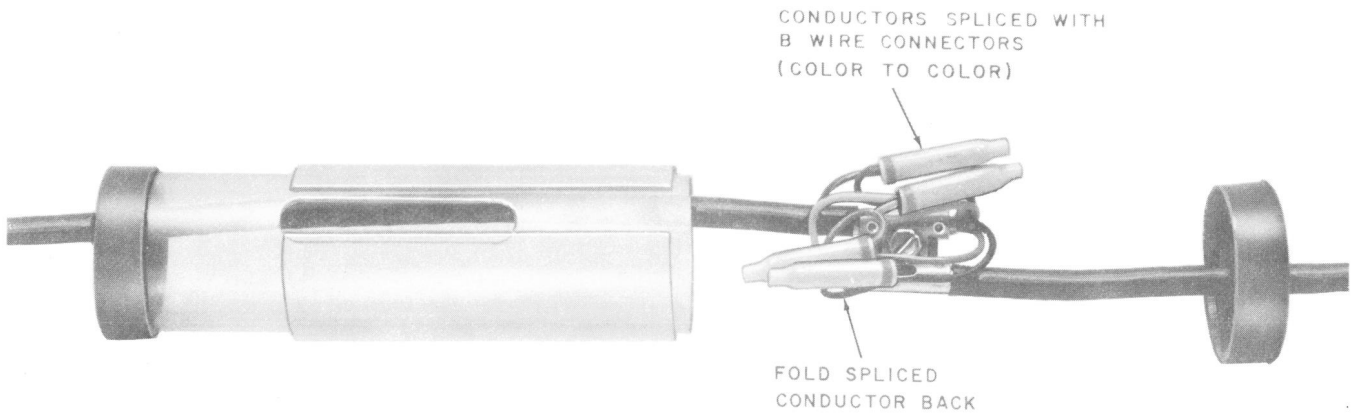


PREPARED B SERVICE WIRE

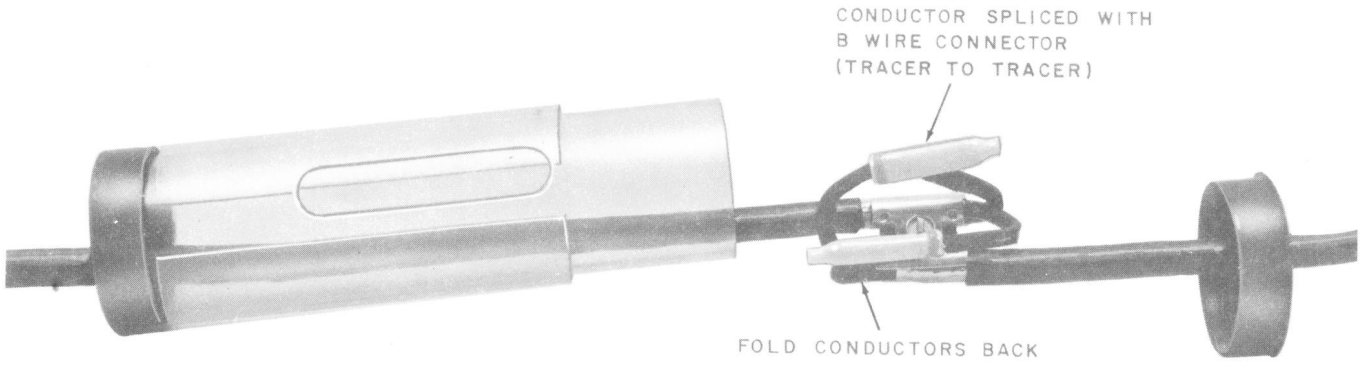


PREPARED E BURIED WIRE

Fig. 8—Prepared Wire—In-Line Splice



B SERVICE WIRE



E BURIED WIRE

Fig. 9—Spliced Wires—In-Line Splice

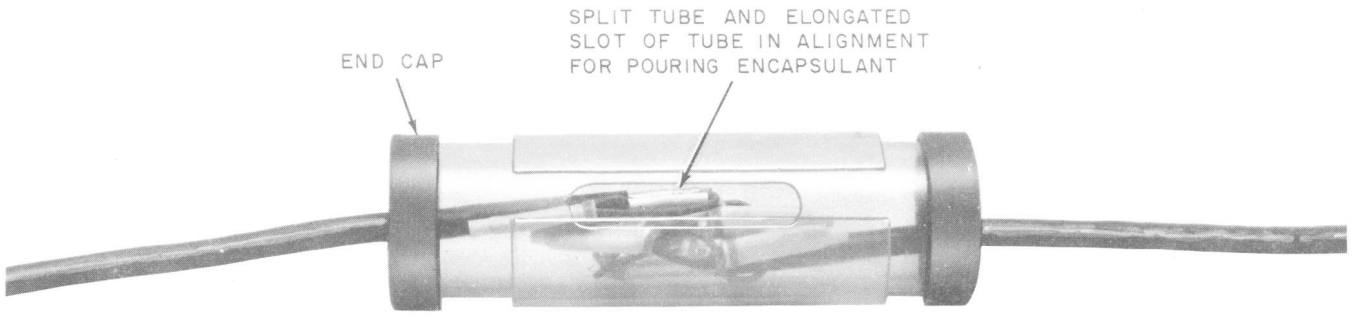


Fig. 10—Closure Installed Over Completed Splice