BELL SYSTEM PRACTICES
Outside Plant Construction and Maintenance

SECTION G50.707.8
Issue 1, August, 1957
AT&TCo Standard

SPLICE CASES 5 AND 6 TYPE INSTALLATION

Contents **Page**

1. GENERAL

1.01 This section describes the installation of the 5 and 6 Type Splice Cases on aerial alpeth, stalpeth or lead sheath cables. Refer also to Section G50.704.5 for instructions covering the 5AA and 6AA Splice Cases.

1.02 Check the contents of the carton and ensure that the necessary small hardware and the sealing material are on the job.

1.03 The preparation of the sheath is covered in Section G50.705.3.

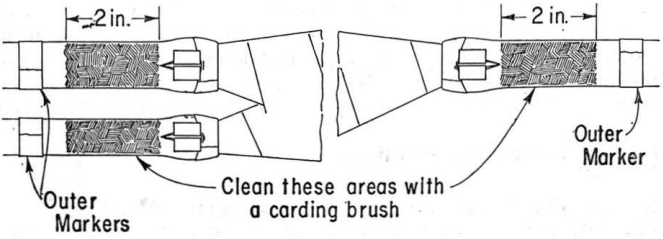
1.04 The selection of the polyethylene sealing washers is covered in Section G50.702.5. Two washers of the correct sizes for the cables are required for each of the four cable entrance holes of the splice case.

1.05 N or T Type Cable Terminals may be installed adjacent to the splice case installation.

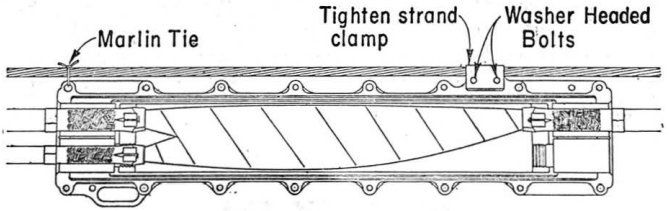
2. INSTALLATION

2.01 It is not necessary to fasten the splice case to the strand until the splicing has been completed.

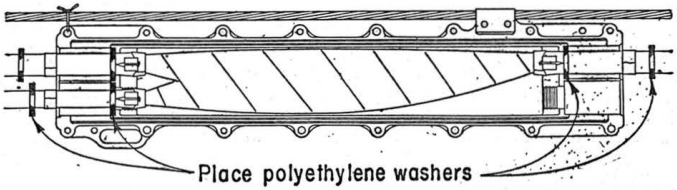
2.02 At each cable end remove the inner B paper tape marker. With the carding brush clean around the polyethylene sheath with a circular motion as shown. Remove with a cable file any scratches made during the operation of placing the cable.



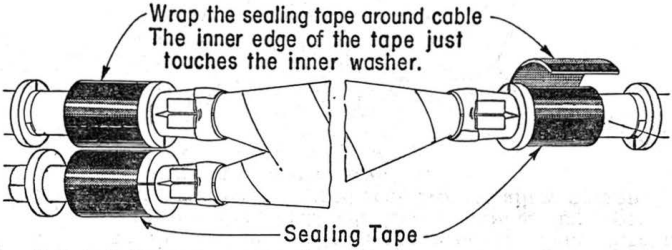
2.03 Place the splice case on the strand and center on the B paper tape markers. Secure the case on the strand by tightening the strand clamp. Support the loose end with a temporary houseline tie.



2.04 Place the polyethylene sealing washers over the cables and position them as shown using the splice case as a guide. **Make sure that the projecting ears of the sheath clamps are positioned facing the workman so that the ears will be resting against the second splice case when it is added.** Also, make sure that the clamps line up with the grooved seats of the splice case, then move the inner polyethylene washers so they will butt against the projecting rings on the castings.

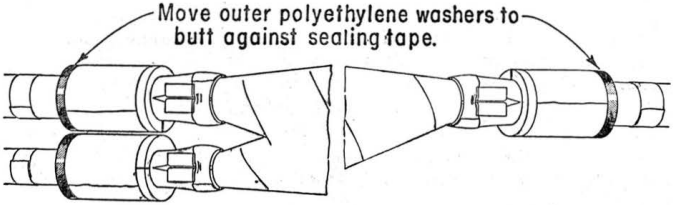


2.05 Build up the sealing tape end seals on each cable as covered in Section G50.705.6.



Note:- Splice case removed for clarity.

2.06 Move the outer polyethylene washers inward until they butt against the sealing tape.



2.07 Any unused opening in the splice case can be filled with a solid plug of sealing tape, placing a D Sealing Washer of the proper size at each end of the plug.

2.08 Swing the splice case down into position and make sure of the following before proceeding.

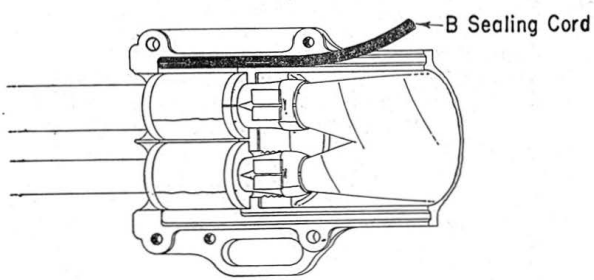
(a) That the prepared cable end seals and the sheath clamps are in their correct position.

(b) That electrical continuity will be obtained from the metal core of the polyethylene sheath cables to the sheath clamp and thence to the second half of the splice cases when it is added.

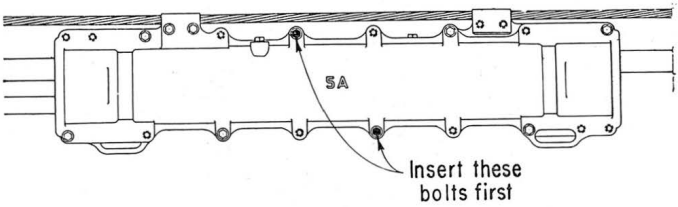
2.09 Then work the end seals into their seats in the splice case. The sealing tape will hold the assembly in position.

2.10 Remove the temporary bonding across the sheath opening. Remove the outer B paper tape markers. Examine the grooves and sealing surfaces which will receive the sealing cord. They should be clean and free from oil, grease, water, dirt, etc.

2.11 Lay the sealing cords in the grooves. Take care not to stretch the cords and avoid making flat spots on dents that might prevent a good seal. Do not allow perspiration or moisture to remain on the seal.

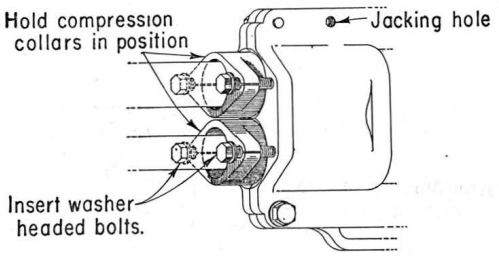


2.12 Place the other splice case in position, being careful not to disturb the sealing cords. Start the two center bolts and turn them down until the cases are closed enough to prevent the sealing cords from shifting. Then insert the remaining bolts and tighten the bolts alternately at top and bottom, working across the case until the lugs are in metal-to-metal contact.



2.13 Fasten the remaining strand lug to the strand.

2.14 Each cable end seal is compressed by inserting the two halves of the compression collar. Tighten the bolts alternately to keep the collar moving evenly until the lugs on the collar contact the end flanges of the castings. However, if considerable sealing tape flows out and the polyethylene washers start to deform outwards, it is not necessary to turn the collar down until it contacts the end flange of the casting. On smaller cables where more tape is used the collar can be stopped 1/8 inch away from lug contact.



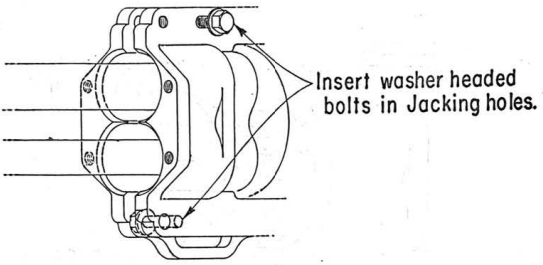
3. FLASH TESTING

3.01 Each splice case has a pressure testing plug for use in flash testing.

3.02 Flash testing is done in the usual manner after closing and sealing the splice case using the flash testing material approved for use with the type of cable sheath involved.

4. OPENING AND REASSEMBLING THE CASE

4.01 Open and reassemble the 5 or 6 Type Splice Case in the same manner as covered in Section G50.705.6 except that separate threaded holes are provided at diagonally opposite corners of the splice case to be used as jacking holes. After removing the side bolts and the compression collar bolts, insert bolts in the jacking holes and separate the two sides of the case.



5. 129A ADAPTER

5.01 The 129A Adapter may be used on cables up to and including 1.0 inch outside diameter entering the 6A Splice Case, in the manner covered in Part 5 of Section G50.705.6.