

BURIED PLANT
SPLICING B SERVICE WIRE
"SCOTCHCAST UNIPAK METHOD"

1. GENERAL

- 1.001 This Addendum supplements Section 629-760-211.
- 1.002 This Addendum is issued to describe the encapsulated butt splicing method for the joining of B Service Wire at buried locations.
- 1.003 The splicing methods described herein supplement the method outlined in Section 629-762-211 and are primarily for use where the splice is to be buried below ground.

2. MATERIALS

The following changes apply to Part 2 of the Section

- (a) Materials - Added materials under this subheading

<u>Materials</u>	<u>Use</u>
Resin, Communications, No. 17 Scotchcast, Size F	For encapsulating butt splice connections
Connector, Split-Bolt, #6	For clamping and bonding shields

3. PREPARING WIRE ENDS

The following change applies to Part 3 of the Section

- (a) 3.05 - Added

Butt Splicing

- 3.05 Prepare each B Service Wire as described in Paragraphs 3.01 to 3.04 except the length of exposed conductors should be reduced to $1\frac{1}{2}$ inches as shown in Figure 13.

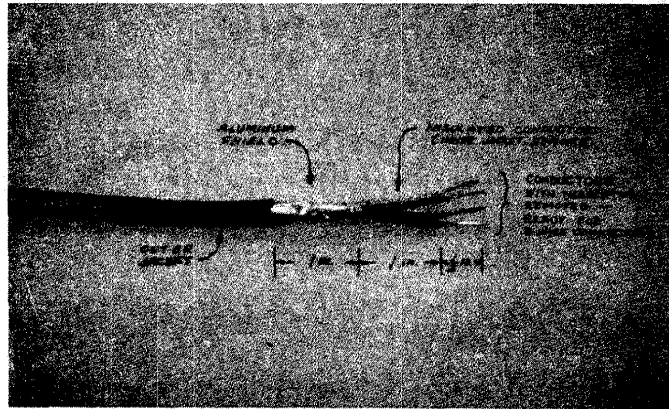


Figure 13

4. SPLICING CONDUCTORS

The following changes apply to Part 4 of the Section.

(a) 4.09, 4.10, 4.11 - Added

Butt Splicing

4.09 Place the two prepared wire ends together as shown in Figure 14.

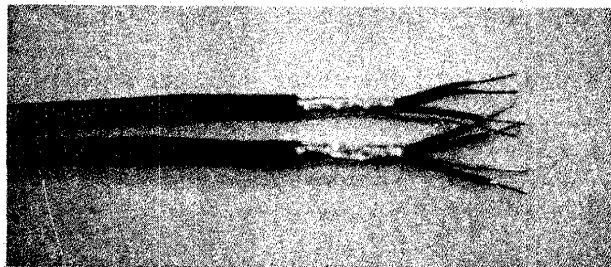


Figure 14

4.10 Clamp or bond the two aluminum shields together using a #6 Split-Bolt Connector as shown in Figure 15.

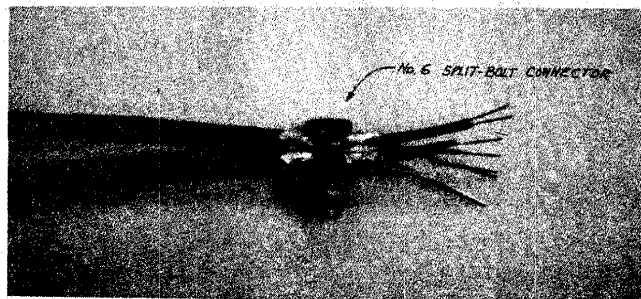


Figure 15

Note: If #6 Split-Bolt Connectors are not readily available an AT-7796X Connector may be substituted.

- 4.11 Join the respective service wire conductors using B Wire Connectors and the B Connector Pressor as shown in Figure 16.

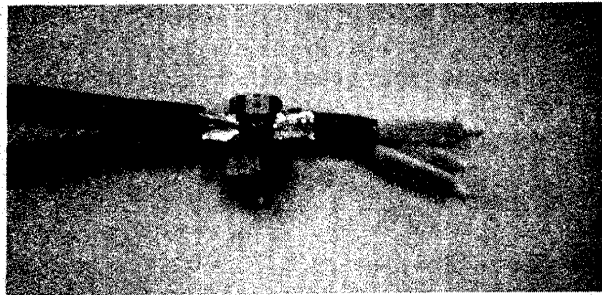


Figure 16

5. ENCAPSULATING BUTT SPLICE

- 5.01 Butt spliced B Service Wires are encapsulated in a "Scotchcast Resin Unipak" preparatory to its burial and to waterproof the B Wire Connectors.
- 5.02 The Scotchcast resin (See Figure 17) is packaged in dual compartment plastic bag called a "Unipak". This "Unipak" is furnished in a sealed vapor proofed aluminum lined envelope to insure reasonable shelf life for the material.



Figure 17

CAUTION: DO NOT use previously opened or punched foil containers. Also DO NOT use a "Unipak" after the expiration date as printed on both the box and foil container. Further DO NOT use any "Unipak" which upon removal from its envelope shows any evidence of crystallization.

5.03 Mix the resin as follows:

- (a) Remove the "Unipak" from the foil container.
- (b) At the "white" end of the "Unipak" container, grasp the sides of the bag and roll the end seal down and in between the sides until it touches the center barrier, see Figure 18. Then by continuing the rolling action push and pull the sides of barrier apart. Break barrier all the way across to side seals.



Figure 18

- (c) Mix the two compounds together by alternately squeezing ends of "Unipak" forcing compounds back and forth. Strip the compounds from the corners. Mix vigorously until the color (green) is completely uniform. (The resin will get quite warm during this mixing process.)
- 5.04 Force all of the mixed resin into one end of the "Unipak". Then cut the upper end open.

PRECAUTION: Observe the same precautions regarding bodily protection, ventilation, good personal hygiene and good housekeeping as required with System Standard Plugging Compounds and as noted on the back of the box in which this resin compound is supplied.

5.05 Place the butt spliced B Service Wires, as prepared under paragraphs 3.05 and 4.09 to 4.11 inclusive, into the open resin filled plastic bag. Slide the splice up and down slowly in the resin to insure complete penetration and removal of all air pockets. Force the wires and resin completely to one side of the bag and fold the emptied side over as shown in Figure 19 and 20. Visually inspect the encapsulation (the resin is transparent) for air pockets and also to ascertain the location of the B Wire Connectors. In general, the B Wire Connectors should be completely enveloped in resin and at least 1/2 inch from the end of the plastic bag.



Figure 19

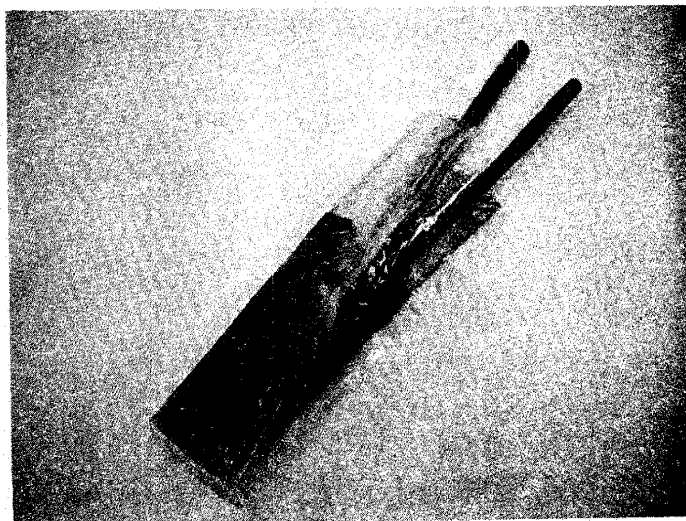


Figure 20

- 5.06 Bind open end of "Unipak" bag to B Service Wires using vinyl tape. Exercise care to prevent forcing any compound out of the "Unipak" bag to impair the taping operation and/or where it may get onto the hands etc. (See Figure 21).

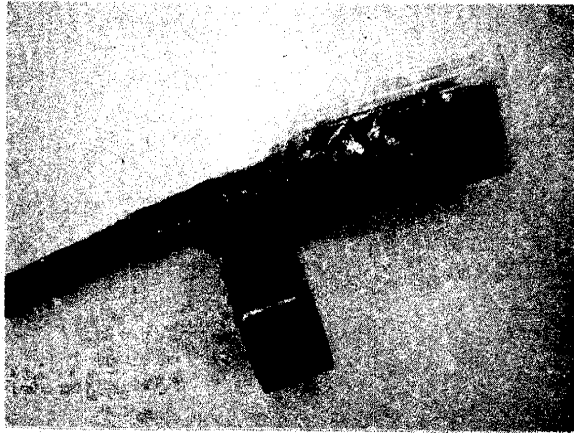


Figure 21

- 5.07 Wrap the entire "Unipak" bag with two layers of vinyl tape as shown in Figure 22.

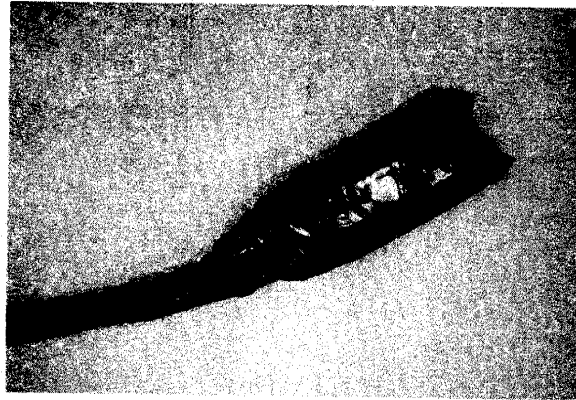


Figure 22

- 5.08 Bury the completed splice immediately if desired. The initial dirt cover should be free of stone or other possible injurious material.