

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G36.130.5
Issue 1, January, 1960
AT&T Co Standard

BURIED WIRE

SERVICE CONNECTIONS

PEDESTAL TERMINALS AND SUBSTATIONS

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1. GENERAL

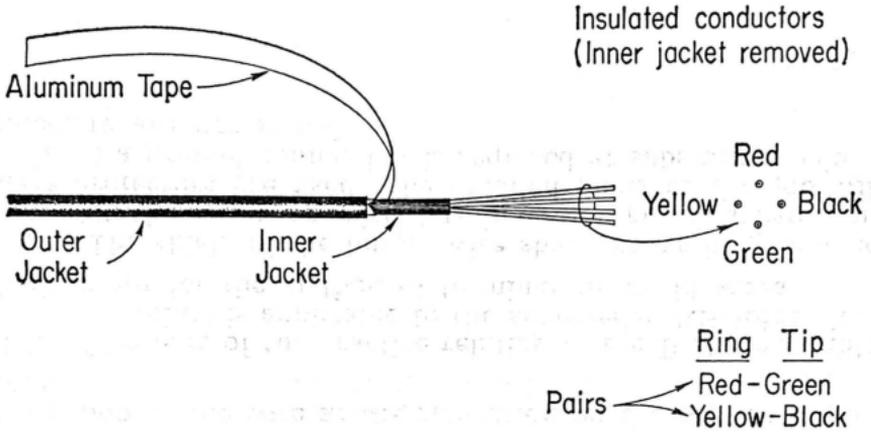
1.01 This section describes the method of terminating B Service Wire and B Underground Wire in B Buried Cable Terminals and D Wire Terminals. It also covers the termination of the wire at the substation on the outside of the house.

1.02 The part of the practice relating to the B Buried Cable Terminal is applicable to the superseded KS-16551 Terminal except for the method of terminating shield wires.

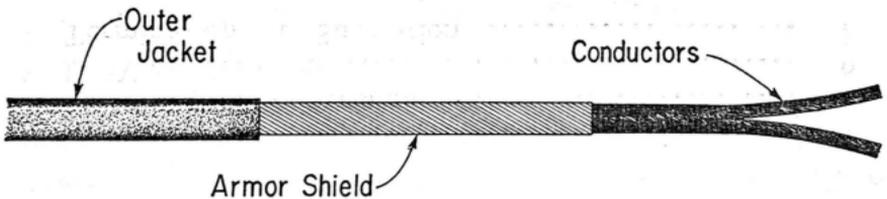
1.03 The shield of the buried wire shall always be grounded at the cable or wire terminal and at all substations where protectors are used. The detailed plans of the job will specify if a ground connection is required at substations where protectors are not installed.

1.04 The following illustrations describe the physical construction of B Service Wire and B Underground Wire.

B SERVICE WIRE



B UNDERGROUND WIRE



2. B BURIED CABLE TERMINAL

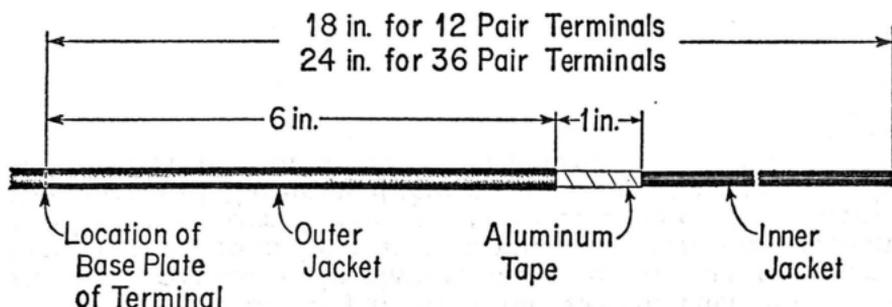
2.01 There should be a minimum length of 18" of wire which was left above the base plate when the terminal was installed. (G56.651.2)

Terminating Shield Wire

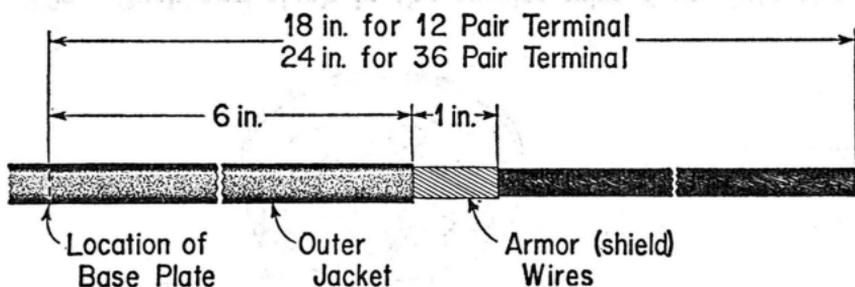
2.02 The shield wire of every B Service Wire or B Underground Wire shall be terminated as outlined below by the workman making the initial service wire connection.

2.03 Pull slack and mark outer jacket of wire 6" above base plate. Then prepare the end of the wire as illustrated below.

(a) B Service Wire



(b) B Underground Wire

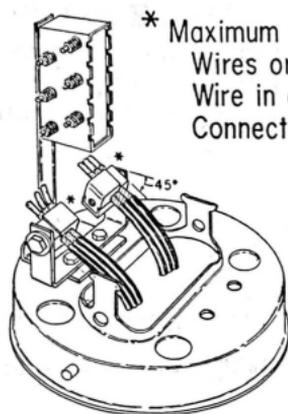


2.04 The termination of the B Service Wire aluminum shield is illustrated in 2.05. The shield wires of B Underground Wire are terminated in a similar manner.

2.05 After **all** of the B Service Wire ends are prepared open the jaws of the connector and insert the wires with the exposed aluminum shields centered in the jaws of the connector. Tighten by hand until the wires are held in position. Then tilt the connector to 45° and tighten with a 216B Tool until the wires are held securely. **Do not crush the conductor insulation by exerting excessive pressure.**

B BURIED CABLE TERMINAL (12 Pair)

Cable loop and ends of
pairs omitted for clarity



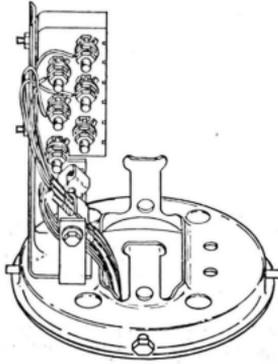
* Maximum of 3B Service
Wires or 1B Underground
Wire in each AT-7796X
Connector (Size No. 6)

- 2.06 Push any slack in the service wire down into the terminal post.

Terminating Conductors

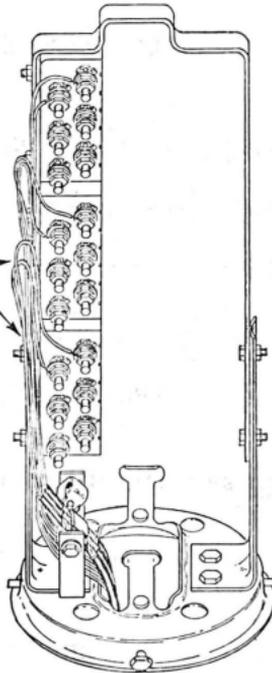
- 2.07 **B Service Wire**—Remove 4" of the inner jacket from the end of the pair to be terminated. Then cut off only sufficient conductor insulation, measured to the top pair of binding posts, to make a neat termination. Form the terminated pair and the extra pair down the outside edge of the block to the bottom of the bracket. Push the end of the extra pair into the terminal post or under the U guard.

B BURIED CABLE TERMINAL
(12 Pairs)



B BURIED CABLE TERMINAL
(36 Pairs)

Note slack left
in terminations
on lower blocks.



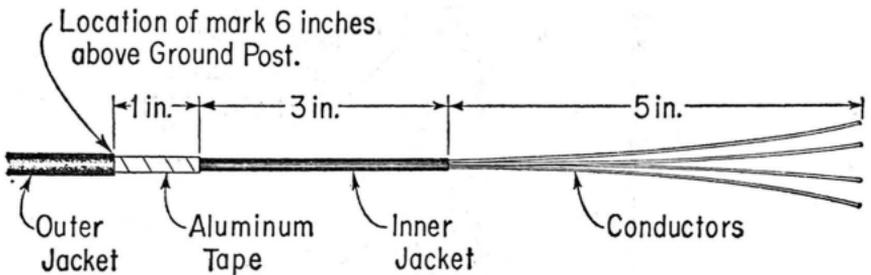
2.08 B Underground Wire shall be terminated in a similar manner with sufficient slack again being left in each pair to reach every pair of binding posts in the terminal.

3. D WIRE TERMINAL

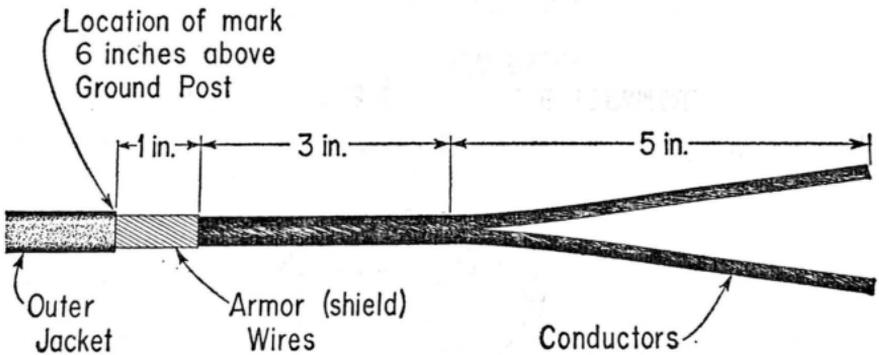
Terminating Shield Wire

3.01 Pull slack and mark outer jacket 6" above ground post. Then prepare the end of the wire as illustrated below.

B SERVICE WIRE

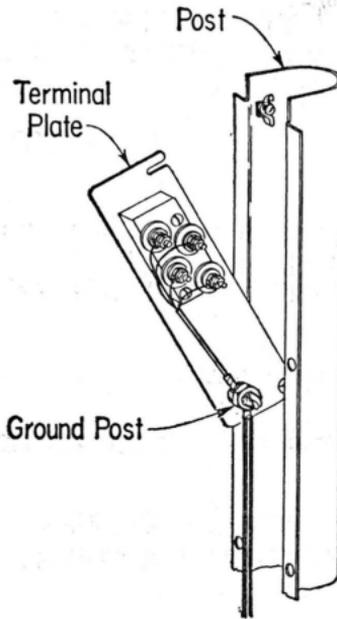


B UNDERGROUND WIRE



Terminating Conductors

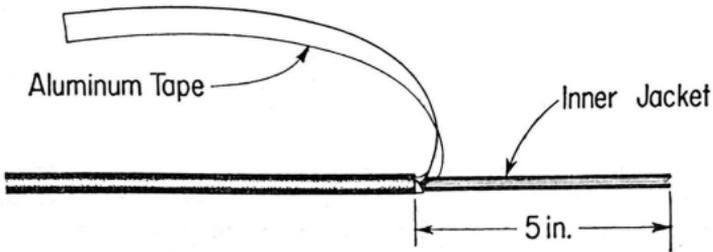
3.02 Pull wire through slot of ground post, center metallic shield in slot in ground post, tighten nut hand tight then 1/2 turn more with pliers. Terminate conductors in the usual manner. Then store any slack in the service wire in the terminal post.



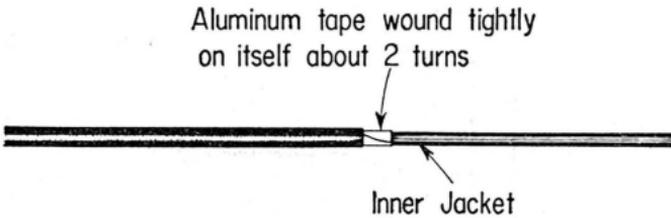
4. TERMINATION AT SUBSTATION

4.01 A Thomas & Beth "Lug-It" No. 35301 may be used to bond the shield of B Service Wire to a 123A1A or 111A protector.

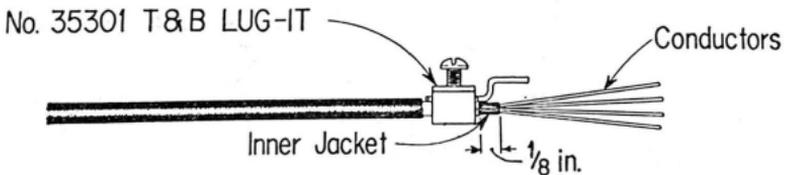
4.02 Place the 123A1A protector on wall, and mark location of Lug-It on B Service Wire. Cut off wire 5" beyond this location. Remove outer jacket and carefully untwist the aluminum tape.



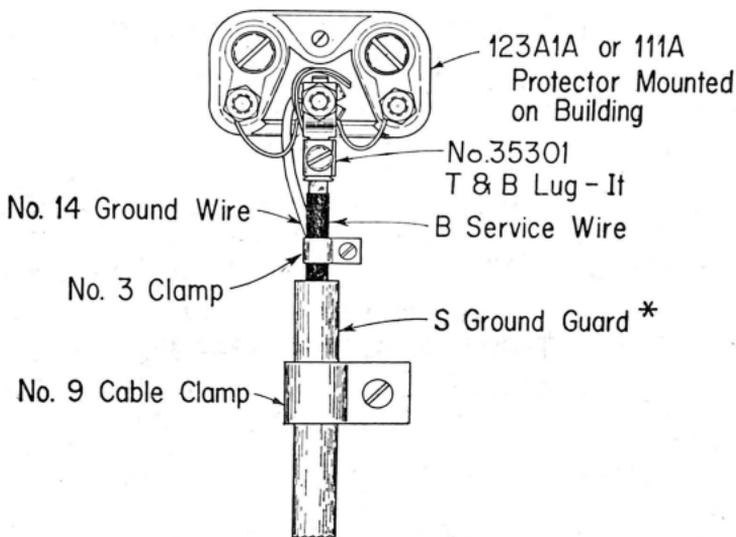
4.03 Wrap aluminum tape tightly on itself at end of outer jacket about 2 turns and cut off remaining.



4.04 Remove inner jacket from about 1/8" beyond the aluminum tape to end of wire. Position Lug-It on wire as shown, and tighten firmly with a small screwdriver.

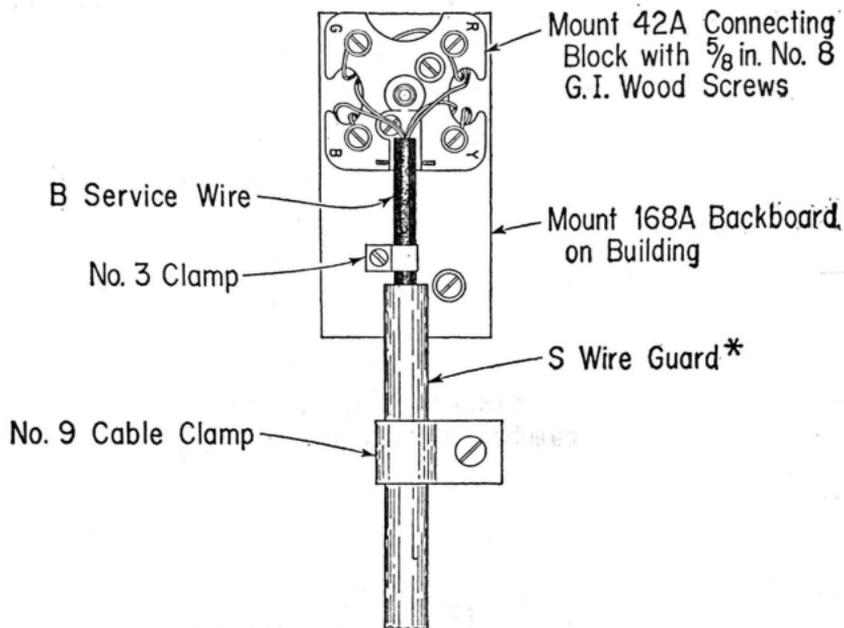


4.05 Terminate B Service Wire on a 123A1A or 111A protector as illustrated. Place the pronged washer on the ground lug between the ground wire and the Lug-It. Place the brass washers and nut on top of the Lug-It.



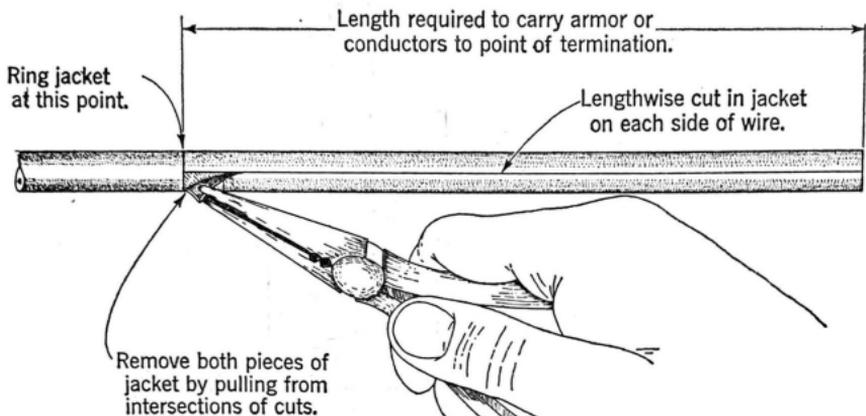
* If more protection is required,
use No. OU Cable Guard.

4.06 Where a protector is not required, a B Service Wire may be terminated on a 42A Connecting Block as illustrated.

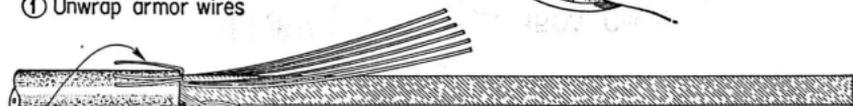


* If more protection is required, use a No. OU Cable Guard

4.07 When B Underground Wire is to be terminated in a protector, prepare the end as follows.



① Unwrap armor wires



③ Cut off remaining wires to about 1½ in and fold back

② Bunch half (9) of the wires and twist together.

④ Cut bunched wires to equal length and insert into barrel of No.31589 Solderless Connector.

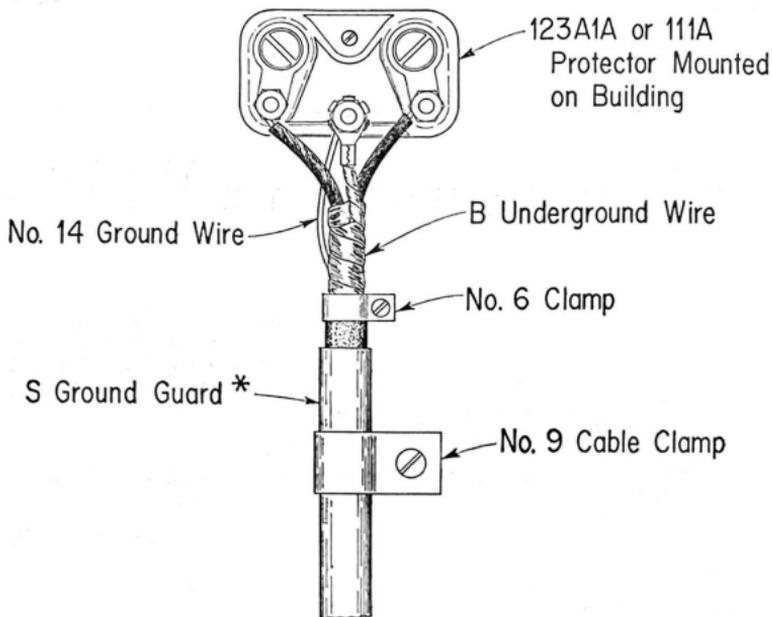
⑤ Crimp barrel with pliers.

About 2 in.



Coat armor wires with RM-641204 Neoprene Cement and apply a half lapped wrapping of ¾ inch Friction tape.

4.08 Terminate B Underground Wire in a protector as illustrated.



* If more protection is required,
use No. OU Cable Guard

4.09 Cover the 123A1A or 111A protector or a 42A Connecting Block with a 150A cover as illustrated.

