

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G56.649.3
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AT&TCo Standard

BURIED CABLE SPLICING

F-51755, F-51756, AND F-51762

PEDESTAL TERMINALS

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1. GENERAL

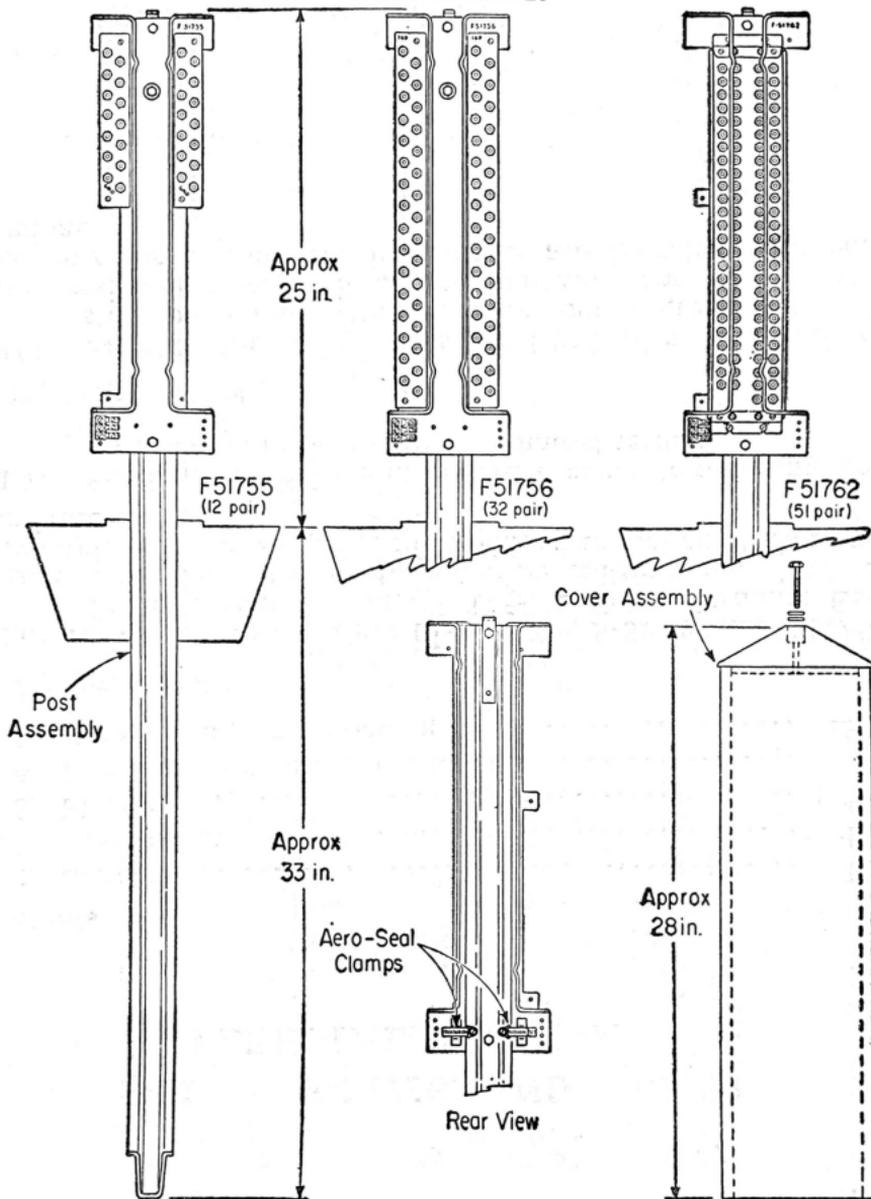
1.01 This section describes the F-51755, F-51756, and F-51762 Cable Terminals and the F-51782 Cable Terminal Extension and their use in terminating, splicing, and loading polyethylene insulated cables in buried urban and rural distribution systems.

1.02 Sections G56.649.1 and G56.649.2 cover terminating arrangements in post or pole mounted terminals.

2. DESCRIPTION

2.01 Each of the terminals is furnished with a galvanized steel post and plate assembly and a green fire and water resistant cover. All of the hardware and small parts necessary for a complete installation are included with the terminal.

CABLE TERMINALS



2.02 The maximum terminating and loading facilities of each terminal are shown in the following table.

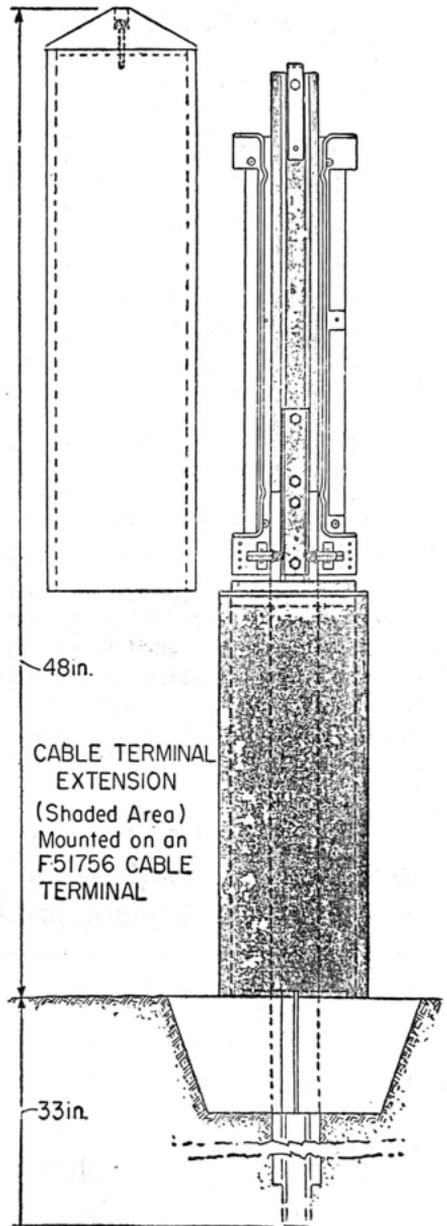
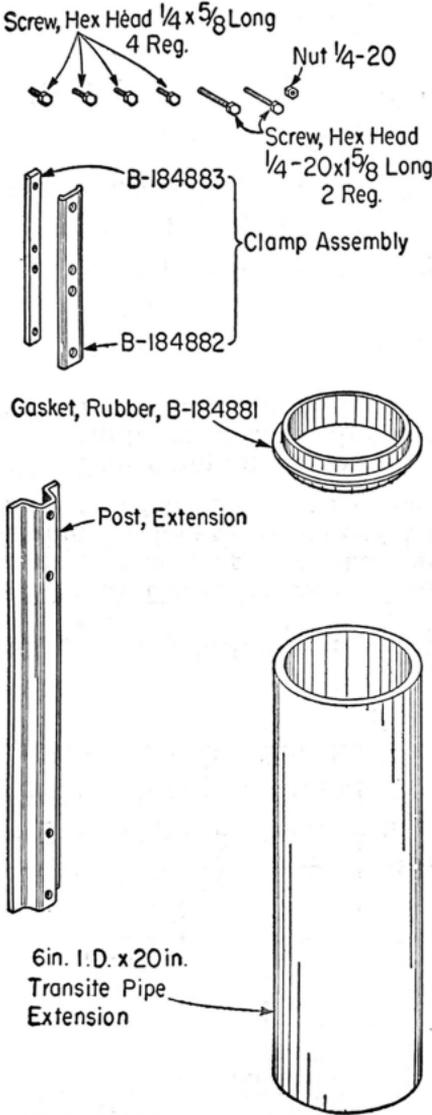
TERMINAL	CABLE PAIRS TERMINATED (MAX)	CABLE PAIRS LOADED (MAX)	SUBSCRIBER DROPS TERMINATED (MAX)
F-51755	12	6	*
F-51756	32	16	*
F-51762	51	-	*

* Each plate assembly is equipped with ground connectors for terminating the armor of 3 drops. Mounting holes are provided for 5 additional ground connectors.

2.03 The cable terminals have an overall height of 28" above the ground which can be increased to 48" by adding the **F-51782 Cable Terminal Extension** to the top of the steel post and relocating the plate assembly. The taller terminal is desirable in locations where ice or frozen soil may make it difficult to remove the one piece cover normally used.

2.04 The components of the cable terminal extension and a cable terminal extension mounted on a F-51756 Cable Terminal are illustrated.

COMPONENTS OF F51782
CABLE TERMINAL EXTENSION

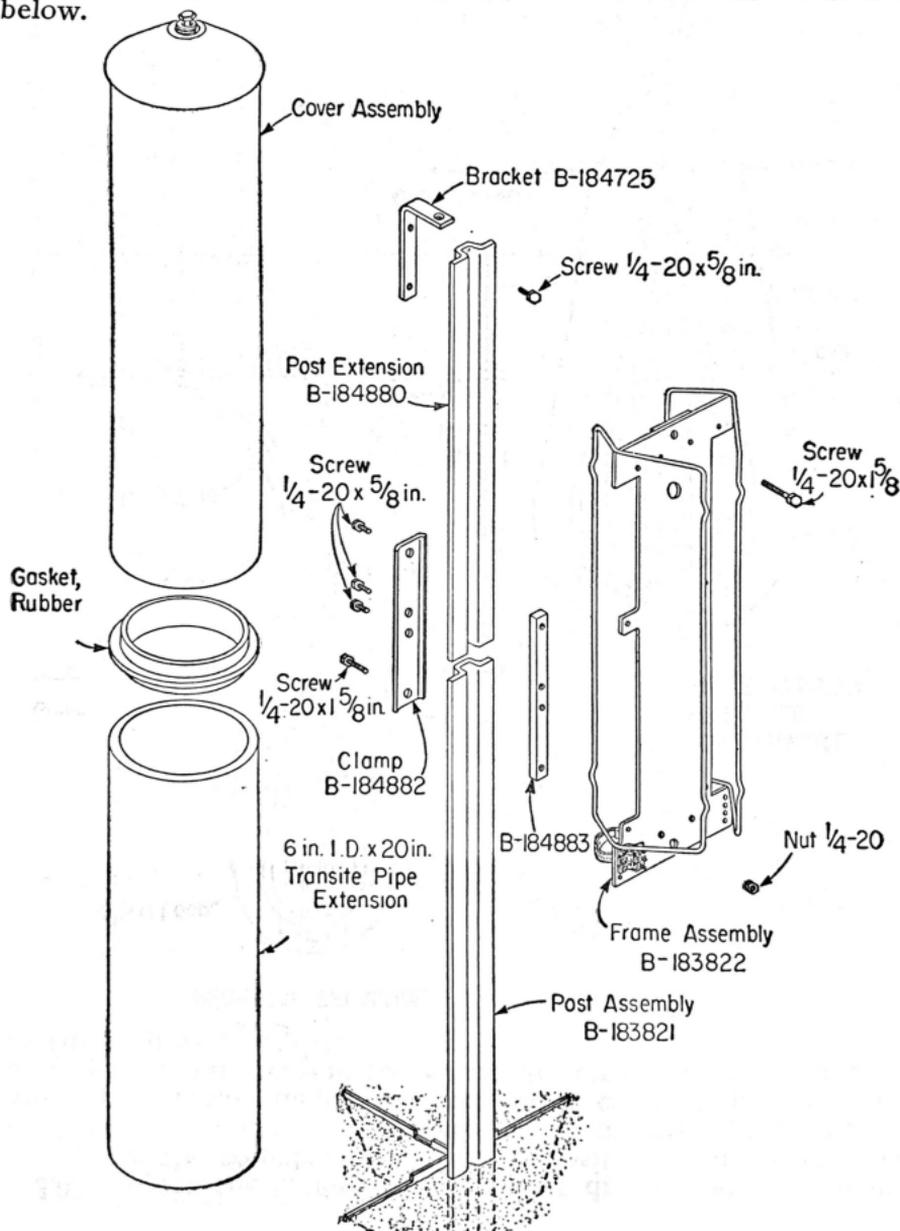


3. PLACING

3.01 Stand the fence post in the trench at the terminal location. Then place a block of wood over the post and drive it into the ground until the top of the fins on the post are flush with the ground. In a shallow trench or if the ground is hard, it may be desirable to remove the block assemblies from

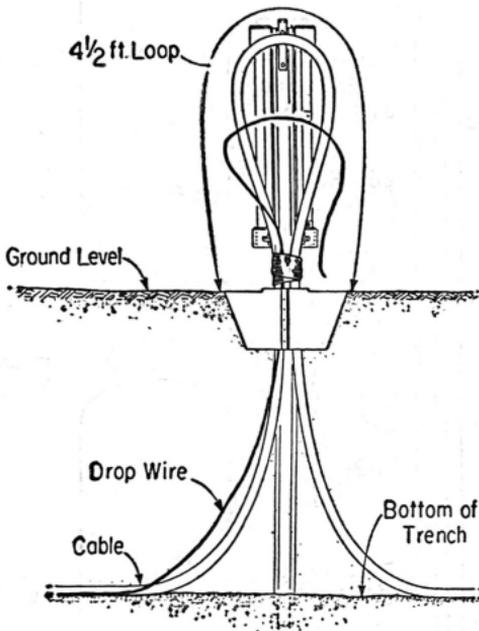
the mounting plate before driving the post into the ground to avoid cracking them.

3.02 If the cable terminal extension is used remove the block assembly and the mounting plate and drive the post into the ground as outlined above. Then connect the extension to the post and reassemble the terminal as illustrated below.

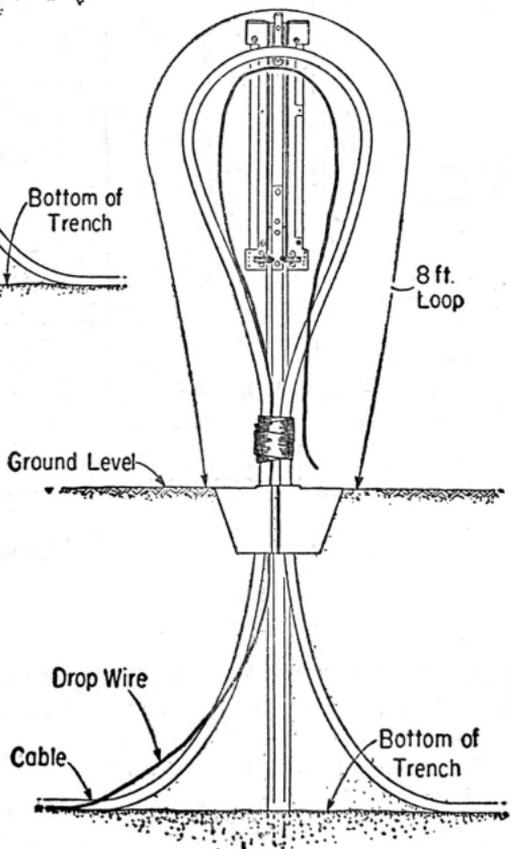


3.03 After the cable and subscriber drops have been placed in the trench secure them in position with several turns of 2-inch friction tape. Then fill in the trench to hold the terminal post firmly in position. Sufficient cable should be looped at the terminal location to permit the terminations to be made at the required height.

PEDESTAL TERMINAL



PEDESTAL TERMINAL WITH CABLE TERMINAL EXTENSION



3.04 Place the transite cover over the terminal assembly with the bottom of the cover resting on the three fins of the fence post. Then center the cover so that the hole in the top lines up with the hole in the terminal assembly bracket.

3.05 Insert washer and hex. headed screw in hole in cover and turn down firmly with 216B Tool.

3.06 Fill hole over screw with B Sealing Tape flush with top of cover.

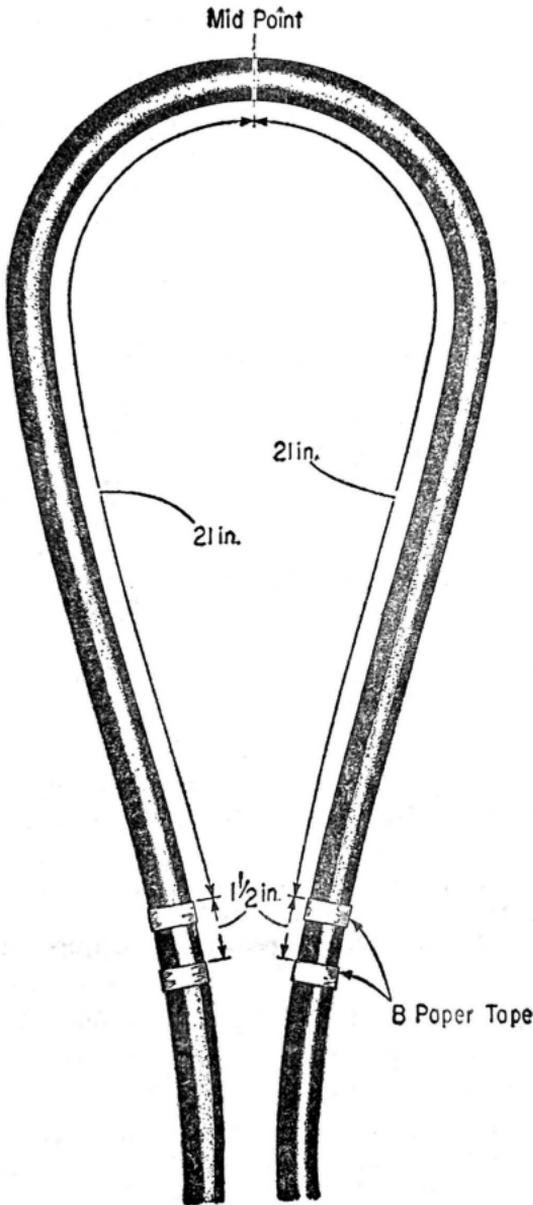
3.07 If the **Cable Terminal Extension** is used place the 20-inch length of transite tubing over the terminal assembly with the bottom resting on the fins. Then place the rubber gasket on the tube.

3.08 Place the terminal cover over the assembly, centered in the gasket and complete the assembly.



4. PREPARATION OF SHEATH OPENING

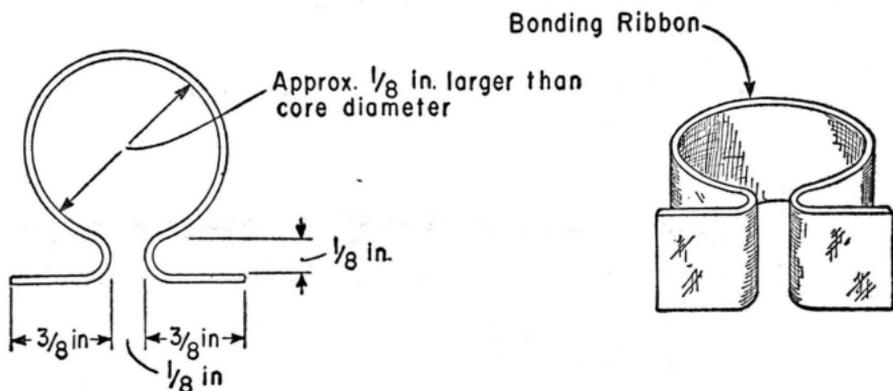
4.01 Mark the midpoint of the cable loop at the top. Then place four paper tape markers on the sheath.



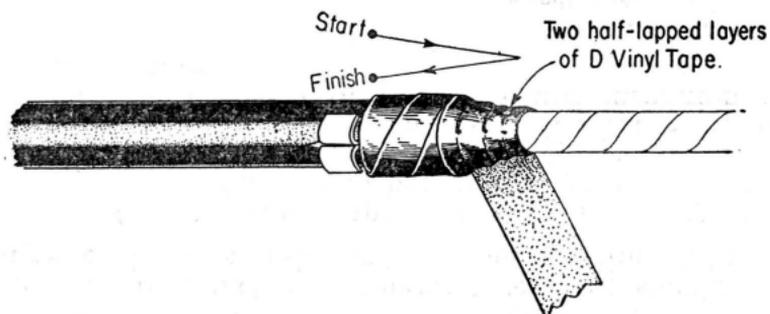
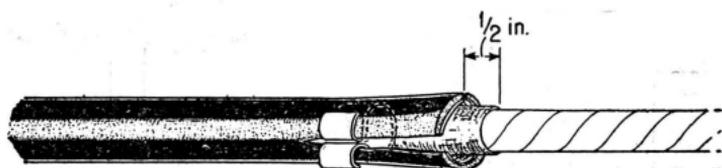
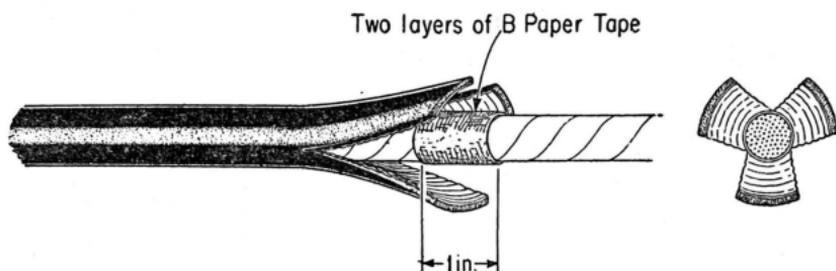
4.02 Remove sheath between the inner tape markers (42 inches) to the core wrapper in the usual manner. Remove inner tape markers.

4.03 With the scissors prepare tabs of approximately equal width by making longitudinal cuts through the polyethylene and metal layers to the edge of the tape marker. On cables up to 1 inch in diameter three tabs should be cut. On larger cables it is desirable to cut at least four tabs.

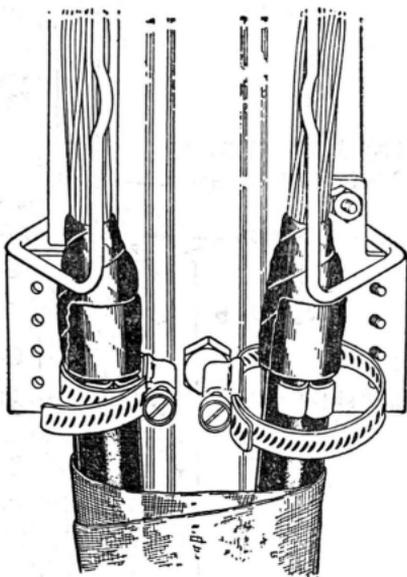
4.04 Remove paper tape markers. Then prepare an inner clamp of a strip of bonding ribbon as illustrated below. **The diameter of the clamp when closed should be slightly larger than the diameter of the core including the core wrap.** This will prevent crushing of the conductor insulation when the clamp is tightened.



4.05 Carefully bend the tabs away from the core. **Do not bend sharply** to avoid tearing the aluminum. Then place the inner clamp as illustrated below.



4.06 Open the Aero-Seal outer clamps. Then position the cable so that the outer clamps bear fully against the inner clamps and tighten with a screwdriver.



4.07 At junctions where three cables enter the box, one outer clamp may be replaced with the larger standard Sealing Clamp in which two cables can be placed. Before tightening be sure that the ears of the inner clamps of both cables are under the outer clamp.

5. TERMINATING AND LOADING

5.01 Cable pairs to be terminated should be brought to the front of the terminal between the wire frame which positions the cover and the mounting plate.

5.02 The pairs should be bridged under the bottom washers and nuts in the terminal. If the cable is not cut, break the conductor insulation, slide it back about 3/4 inch, then loop the skinned portion of the wire and place it under the washer.

5.03 If reel ends coincide with a terminal location, the pairs not terminated can be spliced and wrapped behind the terminal mounting plate. Excess pairs at junctions of different size cables can be treated in a similar manner.

5.04 Subscriber drops should be terminated under the top lock nuts on the binding post. Armor wires, as on B Underground Wire, should be terminated in a ground connector on the bottom of the terminal plate assembly.

- 5.05 Leave sufficient slack in a terminated cable pair or subscriber drop to reach any pair in the terminal.
- 5.06 637 type high dielectric loading coils shall be installed as shown in the following sketch illustrating a completed F-51756 Terminal in which 12 pairs have been loaded, 4 pairs terminated and two subscriber drops cut in.

