

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G73.137.1
Issue 2, August, 1954
AT&T Co Standard

PRESSURE TESTING
37-TYPE TERMINAL
DESCRIPTION

Contents	Page
1. General	1
2. Material List	1
3. Description	2

1. GENERAL

1.01 This section describes the 37-type cable terminals. ↗
It replaces Issue 1, to effect a change in the materials list and to cover changes in the stub cable and valve arrangements.

1.02 Methods of installation and wiring diagrams are covered in other sections.

1.03 The 37-type terminal is a 4-pair gastight terminal used primarily to terminate the cableman's talking circuit in buried and underground cables maintained under gas pressure. This terminal supersedes the Y Cable Terminal.

2. MATERIAL LIST

2.01 The following is a listing of the terminals and auxiliary cables:

Cable, CA-1517 A 6-pair 19-gauge lead sheath cable with polyethylene jacket, tape armor protection, for extending stubs of 37B and 37D terminals.

Cable, CA-1518 A 6-pair 19-gauge lepeh sheath cable with polyethylene jacket, tape armor protection, for extending stubs of 37A and 37C terminals. ↘

Terminal, Cable, 37A For use with splice-type contactor on buried lepeh sheath cables. Equipped with a 20-foot lepeh sheath stub cable with polyethylene jacket, tape armor protection; supplied with brackets for mounting on posts.

- Terminal, Cable, 37B** For use with splice-type or G contactor on buried cables having other than lepe^h sheath. Equipped with a 20-foot lead sheath stub cable with polyethylene jacket, tape armor protection; supplied with brackets for mounting on posts.
- Terminal, Cable, 37C** For use with splice-type contactor on underground lepe^h sheath cables. Equipped with a 15-foot lepe^h sheath stub cable with polyethylene jacket, tape armor protection; supplied with a bracket for mounting on manhole walls.
- Terminal, Cable, 37D** For use with splice-type or G contactor on underground cables having other than lepe^h sheath. Equipped with a ← 15-foot lead sheath cable with polyethylene jacket, tape armor protection; supplied with bracket for mounting on manhole walls.

3. DESCRIPTION

3.01 The 37-type cable terminal consists of a cast brass housing and hinged brass cover with a neoprene gasket to provide a watertight seal. The cover is locked in place with a recessed screw which can be tightened with the C Terminal Wrench. Additional clamping action on the gasket joint is provided by a yoke and screw at the hinged end of the cover.

3.02 The terminal is made gastight by using glass-to-metal seals where the conductors are brought from the interior of the terminal to the circular faceplate.

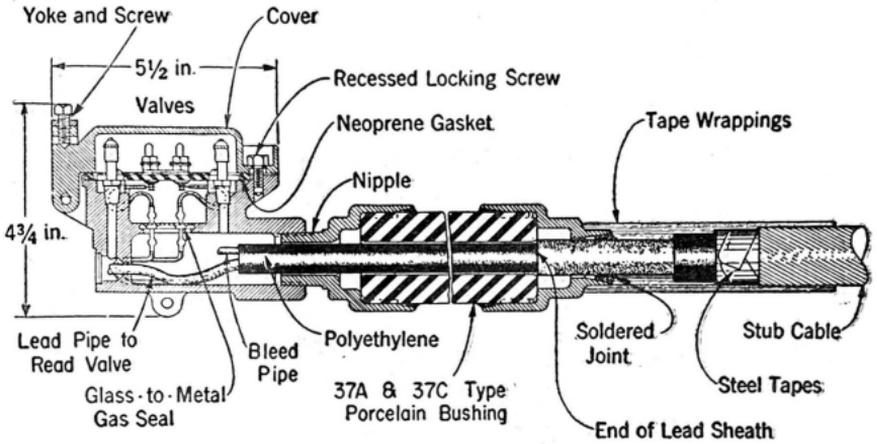
3.03 Two pressure testing valves are provided in the binding ← post chamber of the terminal. The valves are under the cover to prevent tampering. These are used for measuring cable pressure and for bleeding purposes when checking contactor operation. One valve is marked **Read**; the other is marked **Bleed** (in the older terminals) and **Read or Bleed** (in terminals furnished since about January 1954).

3.04 The stub cable contains 4 pairs of 19-gauge conductors and one or two small lead pipes. The older terminal stubs have one lead pipe which is connected to the upper valve marked **Read**. If trouble is experienced with any of the older terminals in reducing the cable pressure by opening the lower valve marked **Bleed**, it is advisable to change the marking on the upper valve to **Bleed** and the lower valve to **Read**.

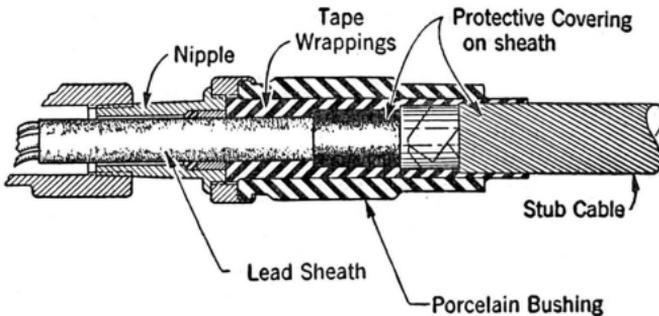
3.05 The stub of the newer terminals has two lead pipes, one for each of the valves. These valves can be used interchangeably.

3.06 The internal construction of the 37-type terminal is illustrated below.

CROSS SECTION OF 37 TYPE TERMINAL
SHOWING INTERNAL CONSTRUCTION



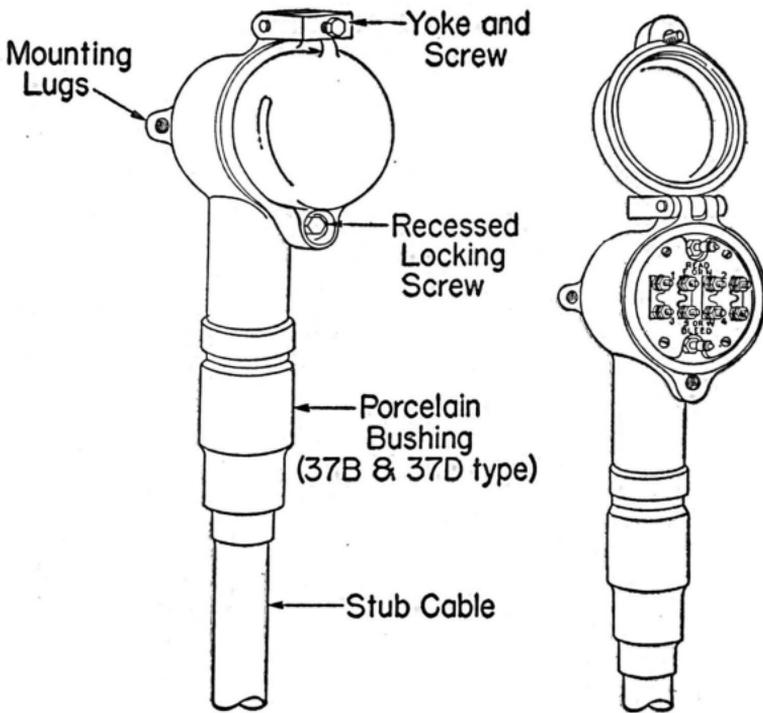
(ILLUSTRATION SHOWS 37A TERMINAL WITH NEW TYPE STUB)



37B AND 37D TYPE TERMINAL BUSHING

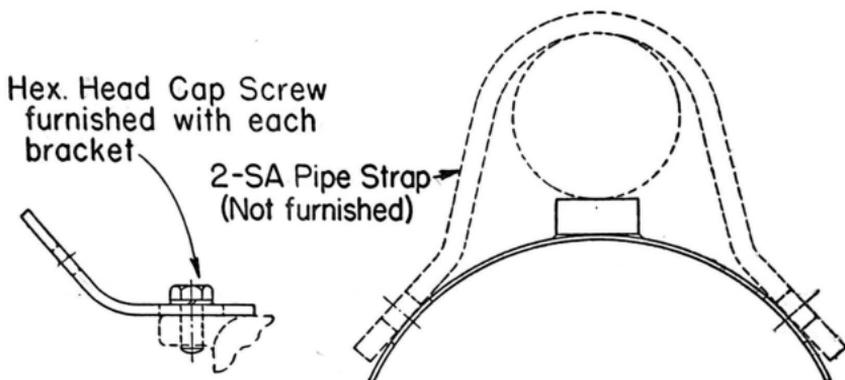
3.07 The porcelain bushing is provided on the stub cable termination to maintain the necessary dielectric strength. The base of the bushing assembly is designed to fit the bore of a 2-inch steel pipe. The shoulder on the base of the insulating bushing is shaped to rest on a conduit bushing or similar bushing fitted on the end of the 2-inch pipe.

3.08 The external appearance of the 37B and D terminals is shown in the following sketch. The 37A and C terminals are identical in appearance except for the porcelain bushing as shown in the illustrations in Paragraph 3.06.



3.09 The mounting bracket and spacer assembly furnished with the 37A and 37B type terminals for pedestal or marker mounting are shown below. The spacers are for use when the stub cable is protected by a 2-inch steel pipe.

**MOUNTING BRACKET AND SPACER ASSEMBLY
FURNISHED WITH 37-A AND 37-B TERMINALS
(2 EACH FURNISHED)**

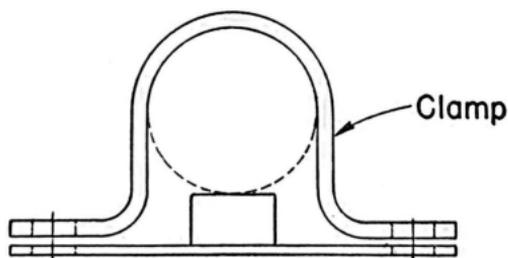


MOUNTING BRACKET

SPACER ASSEMBLY

3.10 The mounting clamp and strap assembly furnished with the 37C and 37D terminals for mounting on a manhole wall are illustrated in the following sketch.

**MOUNTING CLAMP AND STRAP ASSEMBLY
FURNISHED WITH 37-C AND 37-D TERMINALS
(1 EACH FURNISHED)**



STRAP ASSEMBLY