BELL SYSTEM PRACTICES
Outside Plant Construction and Maintenance

SECTION G85.145.6
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PRESSURE TESTING
B LEAK LOCATOR—TEST LEAK

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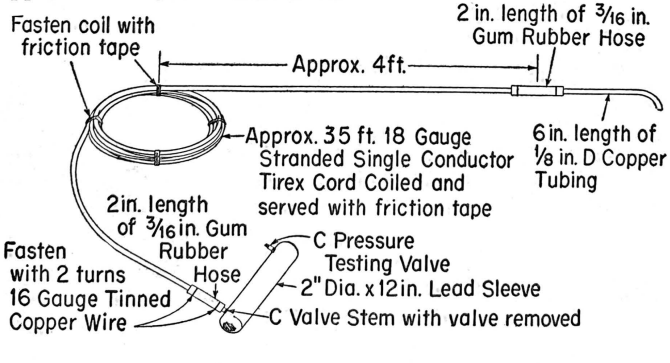
1. GENERAL

1.01 This section covers two methods of constructing a test leak for use in checking the sensitivity of the B Leak Locator, preparatory to use on a cable and in maintaining the apparatus.

1.02 These leaks produce a gas flow of approximately .01 cubic feet of Freon per day to simulate the minimum size of leak that can be detected in the field under average wind conditions and rate of travel along the cable.

2. DESCRIPTION

2.01 **The Wire Coil Test Leak** illustrated below is the more stable since the flow depends on the size of the gas passages in the stranded conductor. This leak can be kept coiled for testing the B Locator off the strand, or it can be uncoiled for use aloft when there is any uncertainty as to whether the apparatus is operating properly on the cable.



2.02 When first made, the wire coil test leak must be charged with Freon 12 for about 16 hours by connecting to a cylinder with regulator set 10 p.s.i. Thereafter, this test leak can be made ready for use by an initial charging of 5 to 10 minutes at 10 p.s.i.

2.03 The lead sleeve reservoir, when charged with Freon to 10 p.s.i., will provide the necessary flow of Freon for one day.

2.04 **The Modified Valve** type leak illustrated below is less bulky but its operation is not as positive. It must be tested with soap solution or by holding the tube about 1/8-inch under water in a glass before use, to make sure that the rate of gas flow is correct.