

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

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CABLE TESTING—GENERAL

GENERAL RULES FOR ESTABLISHING TALKING CIRCUIT

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1. GENERAL

1.01 In many splicing operations it is necessary to have a circuit for talking between sheath openings, splices and terminations. This section gives the general rules to be followed in establishing a talking circuit. Detailed instructions covering the use of specific types of test sets are given in other sections.

2. RULES

2.01 Spare conductors should be used for the talking circuit whenever possible. If no spare conductors are available, permission to use the conductors of a working circuit should be obtained in accordance with local routine.

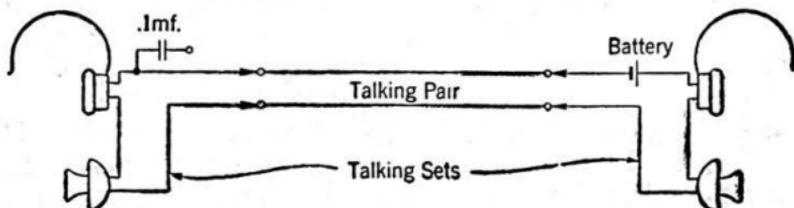
2.02 In establishing a talking circuit between two cable terminations, such as a central office main frame and a distribution terminal, select a good spare pair that is included in the count at the terminal.

2.03 Between adjacent splices, it is generally possible to select a tracer or marker pair or quad for the talking circuit. In a working cable, make sure that the tracer or marker pair selected is spare.

2.04 The talking circuit can be identified with tone, following the general rules given for identifying conductors. In toll cables that are terminated on a primary toll testboard, the tone may be supplied from the board. In some central offices, permanently wired identification tone is available at convenient points along the frame.

3. TYPICAL CIRCUIT AND APPARATUS

3.01 A typical talking circuit is shown in the following diagram:



3.02 The apparatus generally used in the talking circuit is as follows:

- (a) 55A test set consisting of a receiver and transmitter.
- (b) 62A test set consisting of a receiver and transmitter plus a 1/10 mf condenser for use in listening and testing.
- (c) The battery supply is usually obtained from a test set such as the 43A or 76-type; however, a separate 4-1/2 volt dry cell is sometimes used.

3.03 In long toll cables, where the talking circuit may be operated through repeaters, a cableman's talking set such as the 84A or D161013 test set should be used.