

TEST DESK CABLE FAULT LOCATOR
DELCON 4913A
DESCRIPTION AND USE

1. GENERAL

1.01 This section covers the description and use of the Delcon 4913A Test Desk Cable Fault Locator authorized for use in South-western Bell Telephone Company.

1.02 The Delcon 4913A Test Desk Cable Fault Locator is a bridge type meter which uses the Varley technique to allow direct reading on the front panel digital display of distance to fault in feet. Active circuits provide high sensitivity to permit relatively high resistance faults to be located. Under most conditions, faults as high as 10 megohms can be located. Shorts, crosses to working or non-working conductors and both low and high resistance leakages to ground can be located with precision.

2. DESCRIPTION

2.01 The Delcon 4913A Test Desk Cable Fault Locator is a lightweight, portable, solid state test set powered by one 6V zinc carbon battery, eight 9-volt transistor radio batteries, and one 90-volt zinc carbon battery. It measures 10 1/8 by 12 3/4 by 10 3/8 inches and weighs 17 pounds with batteries. (Figure 1)

2.02 The Delcon 4913A Test Desk Cable Fault Locator has the following performance characteristics:

- (a) Distance Range: 0 to 199,900 feet.
- (b) Distance Displays: Strap to fault distance, desk to fault distance, and desk to strap distance displayed in feet on the digital display.

(c) Gauge Calibration: 19, 22, 24, and 26 AWG (copper), 17 and 20AWG (aluminum).

(d) Type of Faults Measured: shorts, crosses to both working and non-working conductors, and grounds to earth, shield, or to working tips,

(e) Return Loop Requirements: Grounds and crosses can be located using only central office battery or ground for return. Shorts require good pair for return.

3. OPERATING MANUAL

3.01 The operating manual furnished with the test set when purchased shall be used for operation and maintenance of the test set.

3.02 Additional operating manuals can be obtained if required by telephoning or writing :

Hewlett-Packard Company
Delcon Division
690 E. Middlefield Road
Mountain View, California 94040
Tel: 415-969-0880

(Be sure to specify Model and serial number of test set.)

EXHIBIT 1

Test Desk Cable Fault Locator
Delcon 4913A

