

CABLE TESTING

USE OF P2BS CORD

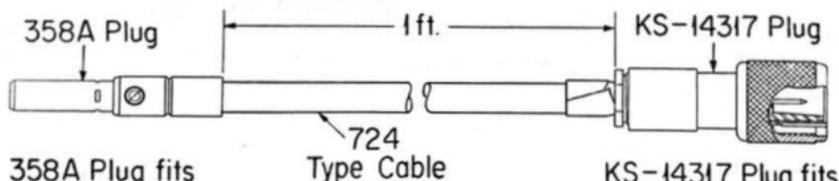
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1. GENERAL

1.01 This section covers the use of the P2BS Cord in various coaxial testing operations.

1.02 The P2BS Cord, illustrated below, serves as an adapter which permits connecting standard coaxial test cords with friction type connectors to the screw type jacks in 41 and 42 type coaxial terminals and other apparatus installed on coaxial cable equipped for L3 operation.

P2BS CORD



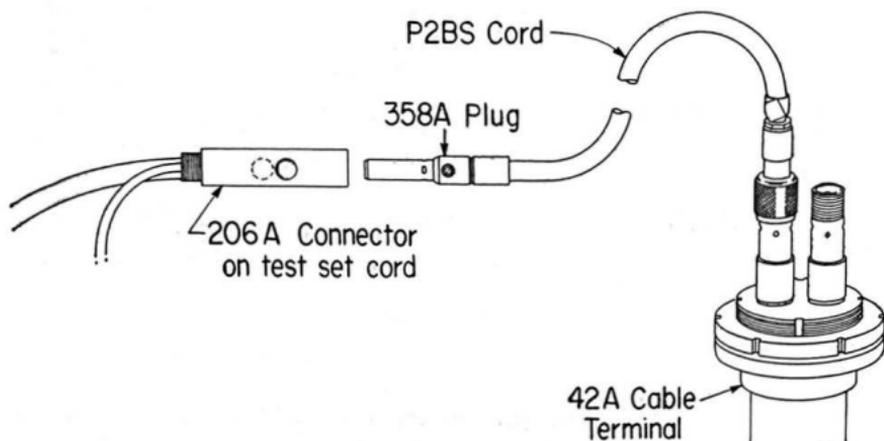
358A Plug fits
206A Connector
on test cords

KS-14317 Plug fits
the following:-

KS-14982 Jack.
KS-14405 Jack.
209-A Connector.
Jacks on 41 and
42 Type Cable
Terminals.

2. TYPICAL USES OF P2BS CORD

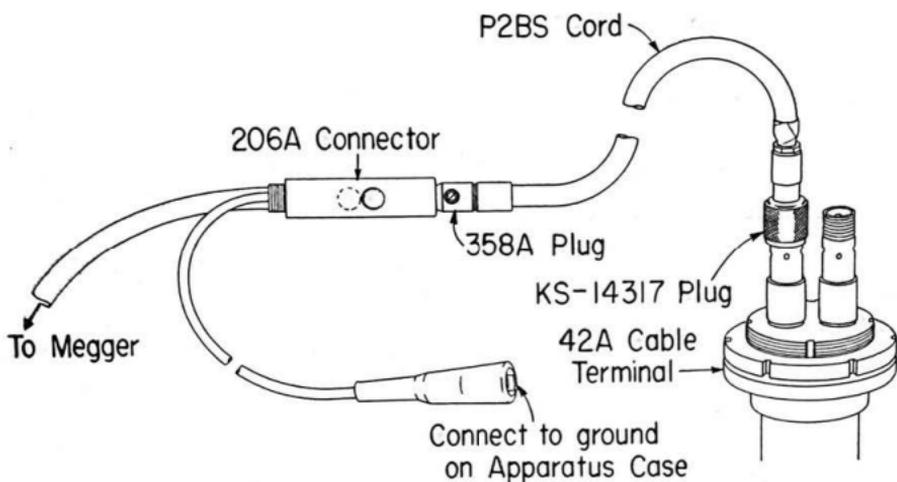
2.01 **Wheatstone Bridge Measurements:** One P2BS Cord is required for each screw type coaxial termination involved in the test circuits. The following illustrates the method of connecting each test cord to the 41A or 42A cable terminal.



2.02 The P2BS has a dc resistance of approximately .01 ohm (equivalent to 10 feet of .375 inch coaxial and 5 feet of .270 inch coaxial). This should be corrected for in making precise Wheatstone bridge measurements for fault location. For example, if there is a P2BS Cord at the distant end and the resistance back from the distant end to the fault measures 3.12 ohms on .375 coaxial, the corrected resistance from the fault would be $3.12 - .01 = 3.11$ ohms.

2.03 Referring to Section G50.250.1 covering bridge measurements on coaxial cable, four P2BS Cords are required in making a Three-Varley test where the Varley loop consists of a "Good" and a "Bad" coaxial and a paper insulated pair is used as the third wire. Six P2BS Cords would be required if a coaxial has to be used as the third wire.

2.04 **Megger Tests:** The following illustrates the connection where a megger test is made from 41A or 42A terminal. The method of making these tests is covered in Sections G50.244.6 and G86.076.2.



2.05 **Sliver Burner Tests:** The arrangement for making sliver burner tests (94A Test Set) from 41A or 42A type terminal is similar to that illustrated above for Megger tests. The method of testing is covered in Section G50.244.7.