Features

Meets Part 68 test requirements

Allows Testing for Longitudinal Signal Power and Balance

Rack mountable

Two year warranty

Description

The LB-168 Signal Power and Balance Set is used to analyze Longitudinal Signal Power and Longitudinal Balance according to the Part 68 and Industry Canada CS-03 requirements. These requirements specify technical criteria that must be met by the telephone equipment before it can be connected to the public switched telephone network in the United States and Canada. In the United States the Part 68 requirements are administered by the Administrative Council for Terminal Attachments (ACTA). The LB-168 is part of the TS-568 telecom test station.

The LB-168 has front panel controls to adjust the loop resistance and terminating resistance. The current level supplied to the telephone equipment is displayed on the built-in analog current meter.

For analyzing logitudinal balance, the LB-168 has an input for a function generator. It has a built in amplifier to amplify the output voltage for logitudinal voltage balance measurements. Both longitudinal and metallic voltage outputs can be measured by connecting a True RMS Voltmeter to the output BNC.

Application

The Part 68 and Industry Canada CS-03 specifications require testing of all telephone interface devices for longitudinal signal power and balance. Longitudinal Signal Power measurement is required to determine if the signal levels outside the voice band are causing interference within the voice band (200 Hz - 4 kHz).

The longitudinal balance measurements are to verify that telephone lines are in balance at all times. Unbalanced telephone lines will transmit signals that couple to multiconductor cables, producing crosstalk.

Specifications

Longitudinal Signal Power

Loop resistance: 400 Ohms - 2450 Ohms
Terminating resistance: 500 Ohm, 90 Ohm
Frequency Range: 100 Hz - 6 MHz
Loop Supply: 48 V DC, external battery

Longitudinal Balance

Measurement modes:Metallic, Longitudinal
Frequency range: 200 Hz - 4 kHz
Amplifier gain: 10 x Voltage level

General

EUT connection: RJ11 or 4 mm socket
Dimensions (inches): 19 x 17 x 10
Weight: 5 lbs.