

359E EQUALIZER

DESCRIPTION

CONTENTS	PAGE
1. GENERAL	1
2. EQUIPMENT DESCRIPTION	1
3. CIRCUIT DESCRIPTION	1

1. GENERAL

1.01 This section describes the 359E equalizer, which is a plug-in apparatus unit designed for use in V4 telephone repeater applications.

1.02 The 359E equalizer is a dummy unit arranged to provide strap-through connections between 1200-ohm repeater circuits and short lengths of H88 loaded cable. It is used in applications where equalization is not required, gain in the transmitting direction may or may not be required, and gain in the receive direction is required. Since the 359E equalizer contains no component apparatus, the 1000-hz insertion loss is 0 db.

2. EQUIPMENT DESCRIPTION

2.01 The 359E equalizer (see Fig. 1) is a plug-in unit equipped with a 20-pin connector plug and is designed to be plugged directly into the equalizer connector socket of the repeater mounting shelf.

2.02 The 359E equalizer consists of a connector plug with straps between pairs of terminals and housed in a metal can approximately 1-3/4 inches wide by 1-3/4 inches high by 7 inches long. Tabs are provided on the front of the can to facilitate removal of the equalizer from the repeater mounting shelf with the use of a 602C or 602D tool.

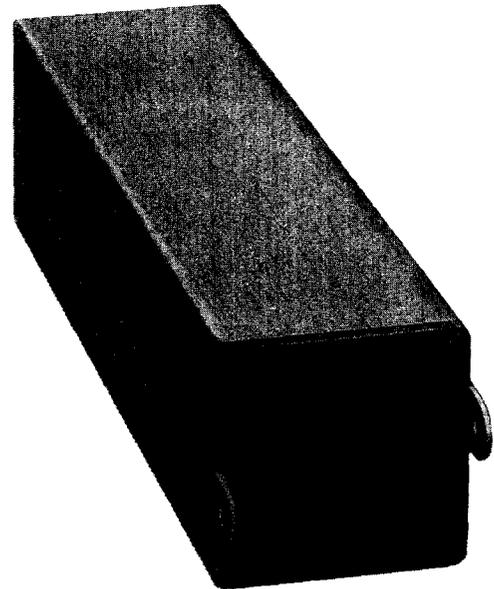


Fig. 1 — 359E Equalizer

3. CIRCUIT DESCRIPTION

3.01 Fig. 2 is a schematic of the 359E equalizer illustrating typical circuit connections when plugged into the equalizer socket of a 24V4 or 44V4 repeater. The transmitting side of the 359E equalizer is wired to provide connections to the AMPL OUT and MON jacks and connects the 1200-ohm transmitting amplifier output to the 4-wire line (short lengths of H88 loaded cable).

3.02 On the receiving side, transmission signals from the 4-wire line (short lengths of H88 loaded cable) enter the equalizer at terminals 2 and 4 and are connected to the 1200-ohm receiving amplifier input circuit through terminals 1 and 3. The strap between terminals 7 and 9 provides the required circuit continuity in the associated receiving amplifier to give an amplifier input impedance of 1200 ohms.

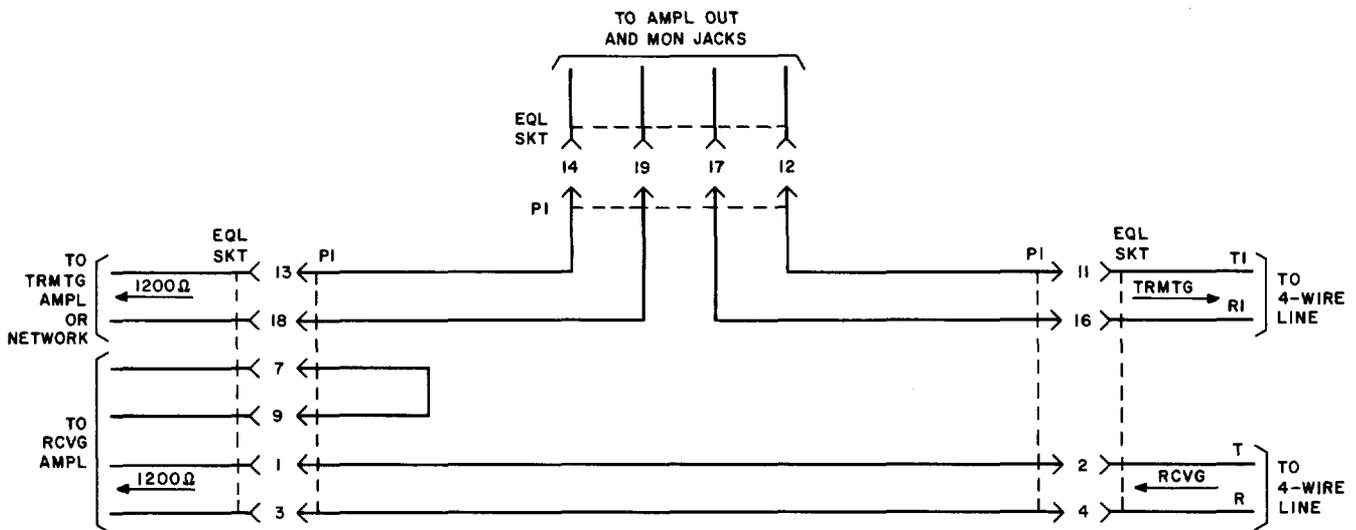


Fig. 2 — 359E Equalizer — Schematic and Typical Circuit Connections