

359C EQUALIZER

DESCRIPTION

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1. GENERAL

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

1.02 The 359C equalizer is a dummy unit designed for use in 600-ohm circuits where gain may or may not be required and equalization is not required. Strapping arrangements of the 359C equalizer provide circuit continuity through the equalizer socket for connecting 600-ohm repeater equipment to 600-ohm circuits or short lengths of nonloaded cable. Since the 359C equalizer contains no component apparatus, the 1000-hz insertion loss is 0 db.

2. EQUIPMENT DESCRIPTION

2.01 The 359C 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 359C 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 a 602D tool.

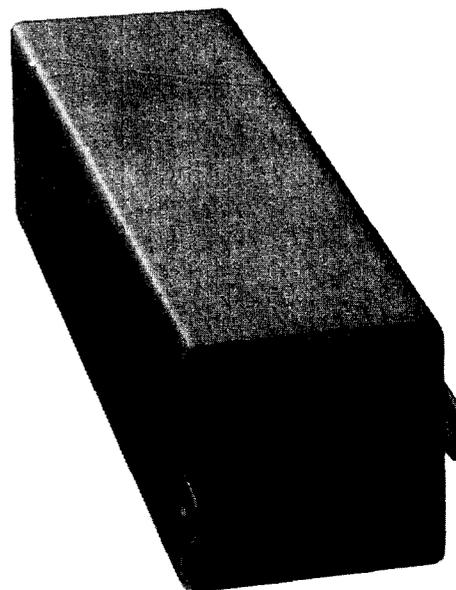


Fig. 1 — 359C Equalizer

3. CIRCUIT DESCRIPTION

3.01 Fig. 2 is a schematic of the 359C equalizer illustrating typical circuit connections when plugged into the equalizer socket of a 24V4 or 44V4 repeater. The transmitting side of the 359C equalizer is wired to provide connections to the AMPL OUT and MON jacks and connects the 600-ohm transmitting amplifier output to the 4-wire line (600-ohm circuits or short lengths of nonloaded cable, as applicable).

3.02 On the receiving side, transmission signals from the 4-wire line (600-ohm circuit or short lengths of nonloaded cable, as applicable) enter the equalizer at terminals 2 and 4 and are connected to the 600-ohm receiving amplifier input circuit through terminals 1 and 3. The strap between terminals 6 and 9 provides the required circuit continuity in the associated receiving amplifier to give an amplifier input impedance of 600 ohms.

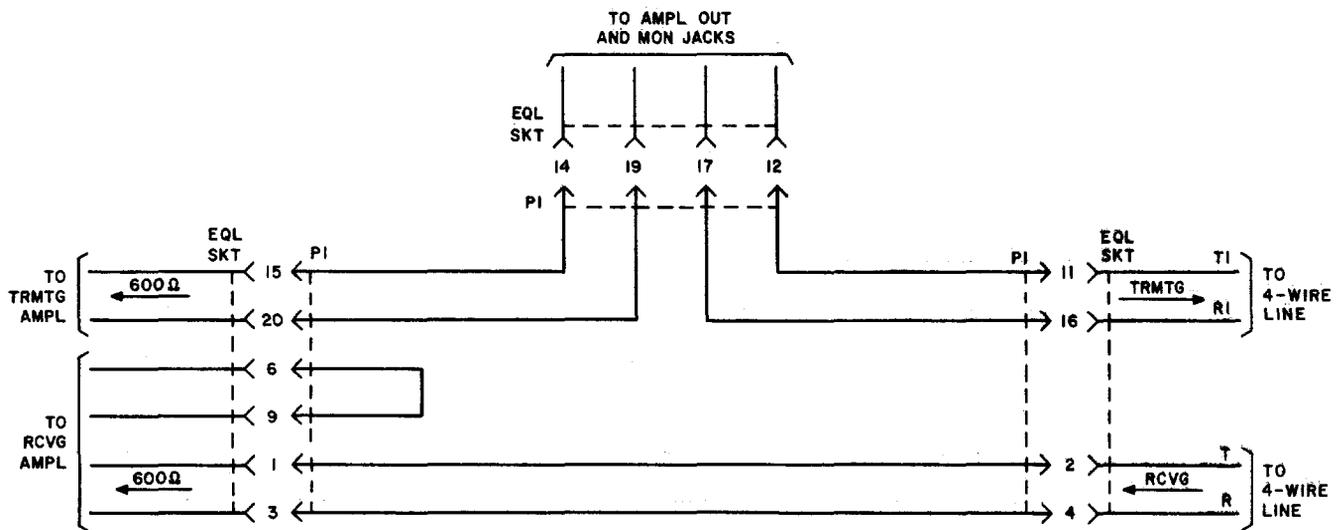


Fig. 2 — 359C Equalizer — Schematic and Typical Circuit Connections