

359J EQUALIZER DESCRIPTION

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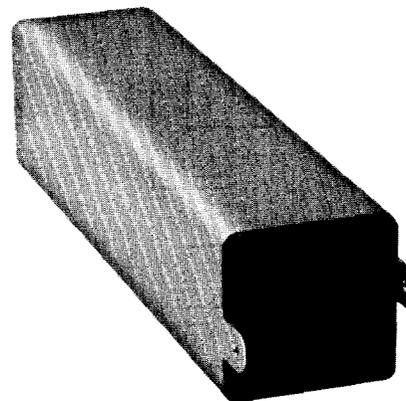


Fig. 1—359J Equalizer

1. GENERAL

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

1.02 The 359J 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 gain and equalization are not required and receiving level control is provided by an 849B network. The 1000-Hz insertion loss between nominal impedances is 0 dB.

2. EQUIPMENT DESCRIPTION

2.01 The 359J 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 359J equalizer consists of a connector plug with straps between pairs of terminals and housed in a metal can approximately 1-3/4 inches high by 1-3/4 inches wide 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.

3. CIRCUIT DESCRIPTION

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

3.02 On the receiving side, received 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 (equipped with an 849B network) through terminals 1 and 3. The strap between terminals 7 and 8 provides the required circuit continuity in the associated 849B network to give an input impedance of 1200 ohms at terminals 1 and 3.

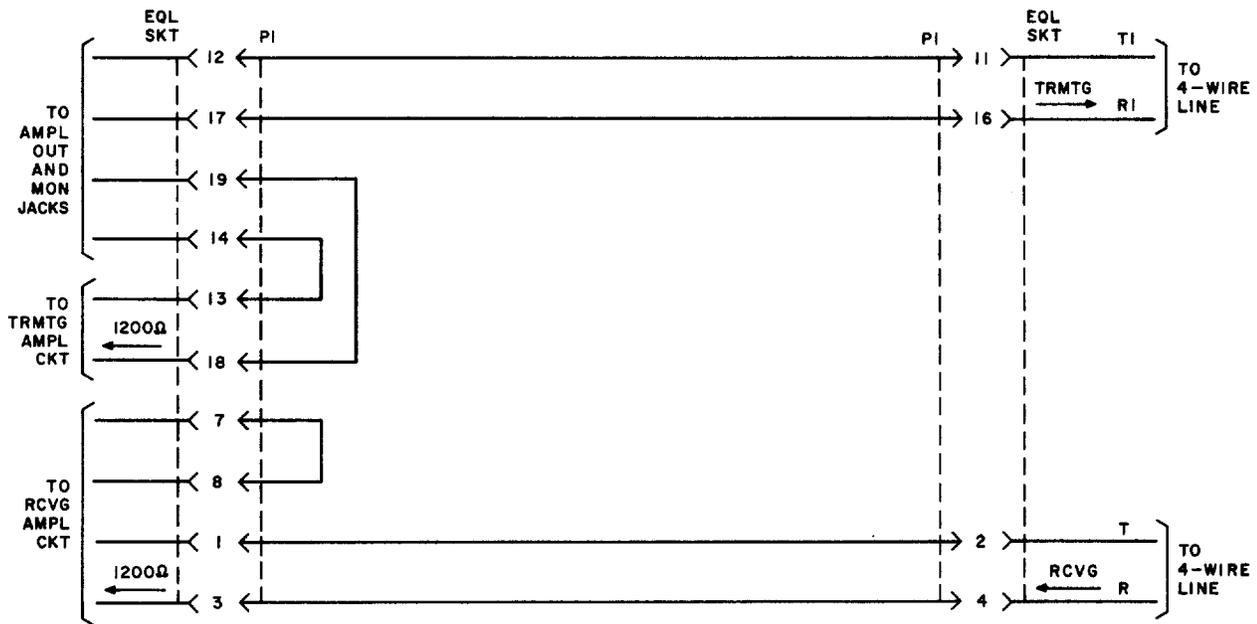


Fig. 2—359J Equalizer—Schematic and Typical Circuit Connections