

**SPECIAL SERVICE LINES**  
**PROTECTION AND TERMINATION**  
**OF LEASED LINES**

**1.00 INTRODUCTION**

**1.01** This section provides general information pertaining to the protection and termination of special service lines.

**1.02** Radio program circuit termination on the connecting block is covered also.

**2.00 GENERAL**

**2.01** Leased lines are cable and wire facilities furnished by the telephone company to connect with electrical apparatus owned by the customer.

**2.02** These circuits require special safeguarding measures (SSM).

**2.03** Electrical limitations used in connection with leased lines are as follows:

- Maximum 270 volts dc between conductors
- Maximum 135 volts dc between any conductor and ground
- Maximum 350-ma current flow in circuit

**3.00 PROTECTION**

**3.01** Special electrical protection may be required to limit the current and voltage that the customer's equipment can deliver to the telephone plant or, in some cases, to minimize the effect on the customer's equipment of a momentary disturbance on the telephone plant.

**3.02** Special electrical protection, as called for on the service order or attached memoranda, may be any of the following:

- Drainage coils
- Fuses (usually 60 type)
- Resistors or ballast lamps
- Transformers (neutralizing)

**3.03** This special electrical protection is in addition to required station protection necessary in exposed plant.

**SECTION C23.100.2**

**4.00 TERMINATION**

**4.01** Do not connect wire directly to the customer's equipment. A connecting block should be installed between the last cable terminal and customer's equipment.

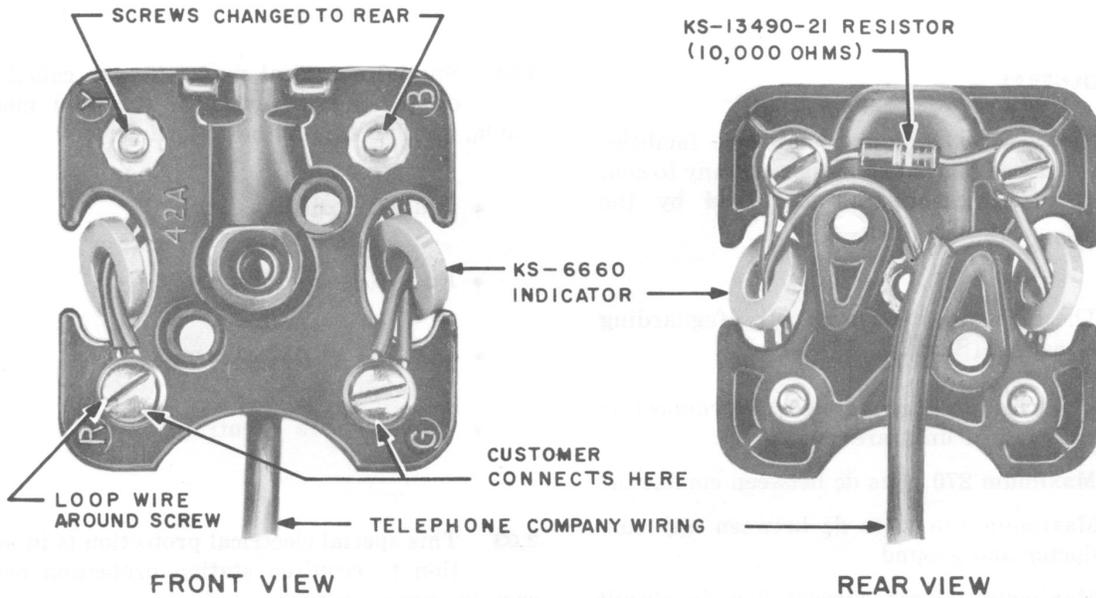
- Customer's wiring should not be run into a cable terminal box.
- Use outside-type wiring terminal when final termination is exposed to weather.

**4.02** The C Sections covering station protection contain information on the installation of 60-type fuses.

**4.03** A white linen tag or equivalent shall be attached to the wire at the final termination. This tag is used to identify the circuit for the customer's workmen.

**5.00 RADIO PROGRAM SUPPLY TERMINATION**

Fig. 1 illustrates the final termination of a radio program supply loop.



**Fig. 1 – Program Supply Circuit Terminated on 42A Connecting Block**