

**CUSTOMER PREMISES**  
**SIGNALING AND TRANSMISSION EQUIPMENT**  
**EQUIPMENT DESIGN REQUIREMENTS**  
**COMMON SYSTEMS**

**1. GENERAL**

**SCOPE**

**1.01** This specification, together with the supplementary information listed herein, covers the general equipment design requirements to be used in the manufacture and installation of customer premises signaling and transmission equipment.

**1.02** It is the purpose of this specification to provide consolidated equipment arrangements for signaling and transmission equipment on the customer's premises. This specification will be expanded as demand for this type of equipment application is established.

**DESCRIPTION**

**J99349A — Customer Premises Facility Terminal for the Type F Signaling System**

**1.03** This terminal may be used on the customer's premises or in the central office. It provides F signaling with line side gain (227 amplifier) and equalization (359-type equalizer), and optional loop-back (332A loop-around relay), plus power ringing and tone supplies that are required to operate the signaling equipment. A maximum of two of these circuits can be provided per terminal.

**1.04** The equipment arrangement consists of a die cast aluminum shelf which may be bay mounted or cabinet mounted. All units plug in to the shelf and into a fabricated metal center section mounted on the shelf. The shelf is mounted in a KS-20018 L10 cabinet when used on the customer's premises. The cabinet is 14 inches deep, 24 inches wide, and 12 inches high. The cabinet may be floor or wall mounted. A backboard is provided to mount the cabinet model on the wall.

**J99349AA — Tone, Ringing, and -24 Volt Supply**

**1.05** This unit provides the common SF signaling supporting circuits and is composed of a 2600-Hz tone supply, 20-Hz superimposed ringing supply, and a -24 volt dc regulated supply. This unit consists of a die cast card holder in which a printed wiring board assembly is mounted. The front face of the unit provides test points for -48 volts, -24 volts, ground, tone, ringing supply, and a fuse. This unit is supplied as a standard part of the J99349A.

**J99349AB — -48 Volt Regulated Power Supply**

**1.06** The -48 volt regulated power supply consists of a full-wave bridged rectifier, which rectifies the 117-volt ac input, and a series regulator for the -48 volts. The unit is composed of a fabricated sheet metal chassis which plugs into a connector mounted on the die cast shelf. Separate fusing is the faceplate of the unit. The -48 volt regulated power supply is an optional unit and not required where -48 volt battery is available. See Fig. 1.

**Power**

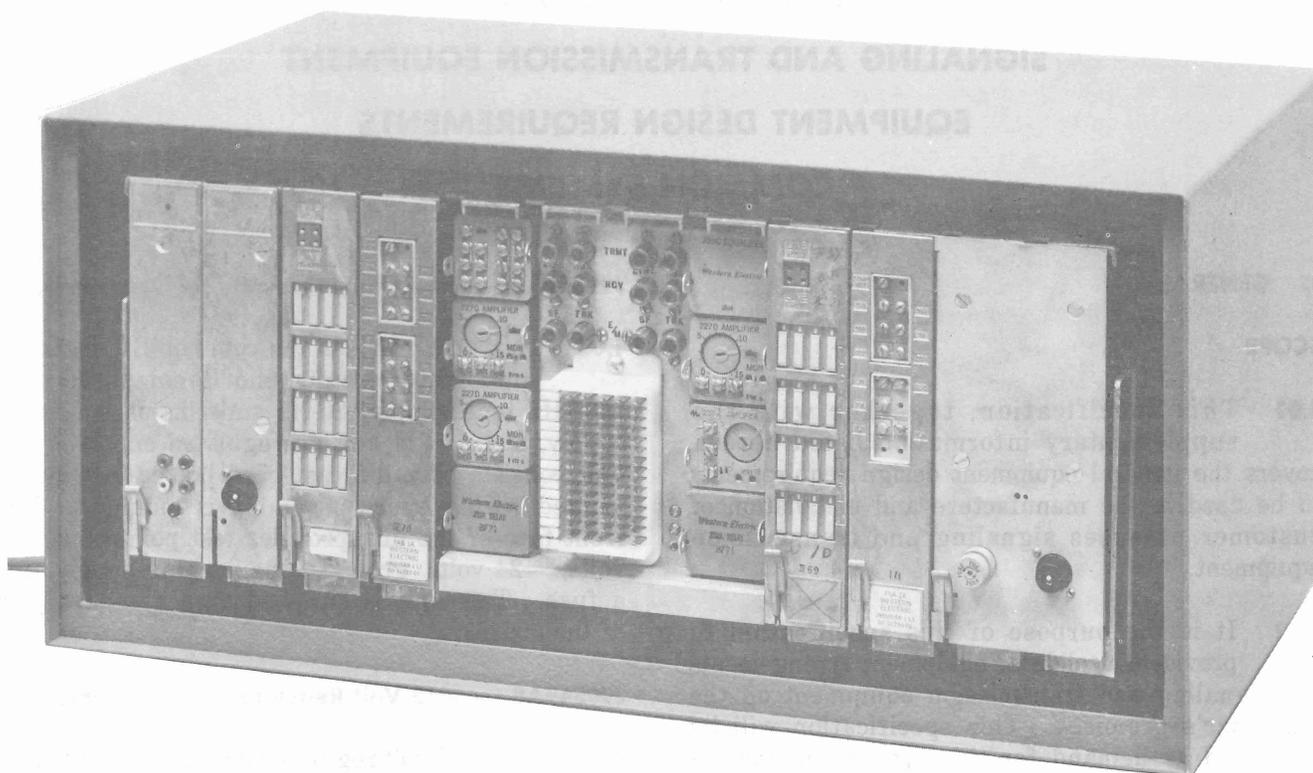
**1.07** When operating on -48 volts, a unit equipped with two circuits requires 1.2 amperes when ringing a maximum of six ringers, and 0.85 ampere when the ringing generator is off. When operating from a 115-volt ac source with ringing generator in operation, 0.55 ampere is required, and 0.48 ampere with the ringing generator off.

**2. SUPPLEMENTARY INFORMATION**

311-100-180—Customer Premises Facility Terminal for Type F Signaling—Engineering and Application Information

332-601-100—Customer's Premises Facility Terminal for Type F Signaling—Description

332-601-200—Customer's Premises Facility Terminal



**Fig. 1—Customer Premises Facilities Terminal for Type F Signaling**

for Type F Signaling—Identification, Connections, and Installation

332-601-500—Customer's Premises Facility Terminal for Type F Signaling—Maintenance and Lineup Procedures

800-600-000—General Equipment Requirements

X-78422—Manufacturing Testing Requirements for Customer's Premises Facility Terminal for Type F Signaling

KS-20018—Cabinets

### 3. DRAWINGS

#### Circuits

SD-97047-01—V4 Telephone Repeater, Battery Supply, and Connecting Circuits

SD-99421-06—Signaling Compatibility with Switching Circuits

SD-1C240-02—Type F Signaling Application Schematic

SD-1C241-02—Type F Signaling Test Extender Circuit

SD-1C475-01—Customer Premises Facility Terminal (for Type F Signaling) Circuit

#### Equipment

J99349A-( )—Customer Premises Facilities Terminal for Type F Signaling

J99349AA-( )—Tone, Ringing, and -24 Volt Supply

J99349AB-( )—48 Volt Regulated Power Supply

### 4. EQUIPMENT

*J99349A—AT&T Co Std—Customer Premises Facilities Terminal for Type F Signaling*

Equipment—J99349A-( )

**List 1**—Shelf, assembly, connectors, connecting block, and tone, ringing, and -24 volt supply for one customer premises facilities terminal for F signaling per SD-1C475-01, FS1. (See Note A.)

**List 2**—Equipment required in addition to list 1

to provide one customer premises facilities terminal for F signaling in KS-20018 L10 cabinet mounting.

**List 3**—Equipment required in addition to lists 1 and 2 to provide a backboard to wall mount the cabinet mounted unit.

**Note**

A. Plug-in equipment and apparatus other than the J99349AA must be ordered separately.

**J99349AA—AT&T Co Std—Tone, Ringing, and  
— 24 Volt Supply**

Equipment—J99349AA-( )

**List 1**—Printed wiring board assembly, die cast card holder, and component apparatus

Bell Telephone Laboratories, Incorporated

Dept 4134

required for one tone, ringing, and -24 volt supply per Fig. 1 of SD-1C475-01.

**J99349AB—AT&T Co Std—48 Volt Regulated  
Power Supply**

Equipment—J99349AB-( )

**List 1**—Printed wiring board assembly chassis and component apparatus required for one -48 volt regulated power supply per SD-1C475-01, Fig. 2, option U. (See Note A.)

**Note**

A. The J99349AB is an optional unit and is used only where -48 volts is not available.

**5. GENERAL NOTES**

**5.01** Codes J99349B through J99349Y are unassigned.