MULTIFREQUENCY SUPPLY AND DISTRIBUTION UNITS EQUIPMENT DESIGN REQUIREMENTS COMMON SYSTEMS

1. GENERAL

SCOPE

1.01 This specification, together with the supplementary information contained herein, covers the equipment design requirements for the equipment and circuits to be used in the manufacture and installation of the auxiliary multifrequency supply and distribution units.

1.02 This specification is issued to introduce two new MF supply and distribution units per J1C011A and J1C011B.

CAPACITY

1.03 The J1C011A MF supply and distribution unit is capable of supplying up to 30 circuits with 6 tones per circuit; the J1C011B unit will supply a minimum of 30 to a maximum of 140 circuits with 6 tones per circuit, providing that not more than 30 sending circuits are energized simultaneously.

DESCRIPTION

1.04 The J1C011A and B units supply six individual frequencies of 700, 900, 1100, 1300, 1500, and 1700 Hz at a level of −8 dBm/frequency. These units are designed to mount on 23-inch relay racks, but they are available with adapters for use on 25-inch frames. These units are for use in offices where the capacity of the J98609 11-foot 6-inch frame office supply is not required and the J99235AW MF generators are not adequate to handle the load. The J1C011 units each consist of two MF generators, a control panel for maintenance and testing, six different AR-type circuit packs, and wire spring relays. Only one of the MF generators is used at any one time, but they are automatically switched every 24 hours or on detection of a failure in the supply in use. Whenever a failure is detected, a major office alarm is triggered.

1.05 Load resistors are required on the outputs of each tone as in the case of the standard office supply frame. On the units listed herein, these resistors are provided on AR circuit packs, which are contained within the units. Switchboard cable is used for connection to circuits requiring these tones. The switchboard cable is terminated on the circuit pack connectors. All wiring on the units themselves is surface wiring.

2. SUPPLEMENTARY INFORMATION

800-600-000—Checking List—General Equipment Requirements
801-000-000—Common Systems Index
J1B022—821-420-150—Centralized Intercept Bureau No. 1A—For Use in AIS System
J94910—821-704-150—Framework and Equipment for No. 23 Operating Room Desk
Current Drain Data—SD-95760-02

3. DRAWINGS

WE J drawings should be ordered by referring to the prefix and base number and requesting the current dash (—) number.

Keysheets

SD-1B151-01—Automatic Intercept System
SD-95760-01—No. 23A, 23B, 23C, or 23D Operating Room Desk

Circuits

SD-1C450-01—Auxiliary Multifrequency Supply and Distribution Circuit

Equipment

J1C011A-( )—Auxiliary Multifrequency Supply and Distribution Unit—Arranged To Supply a Maximum of 30 Circuits
J1C011B-( )—Auxiliary Multifrequency Supply and Distribution Unit—Arranged To Supply a Maximum of 140 Circuits

4. EQUIPMENT

J1C011A—A T&T Co Standard—Auxiliary Multifrequency Supply and Distribution Unit—Arranged To Supply a Maximum of 30 Circuits—Occupies Space of Seven 2- by 23-Inch Mounting Plates—Surface Wired

Equipment—J1C011A-( )

List 1—Framework, assembly, wiring, and equipment per SD-1C450-01, one Fig. 1, one Fig. 2, and two Fig. 3 for one auxiliary multifrequency supply and distribution circuit.
List 2—Apparatus per SD-1C450-01, Fig. 2, required in addition to list 1 to provide connection to six additional circuits. (Maximum four list 2.)

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J1C011B—A T&T Co Standard—Auxiliary Multifrequency Supply and Distribution Unit—Arranged To Supply a Maximum of 140 Circuits—Occupies Space of Ten 2- by 23-Inch Mounting Plates—Surface Wired

Equipment—J1C011B-( )

List 1—Framework, assembly, wiring, and equipment per SD-1C450-01, one Fig. 1, five Fig. 2, and two Fig. 3 for one auxiliary multifrequency supply and distribution circuit.
List 2—Apparatus per SD-1C450-01, Fig. 2, required in addition to list 1 to provide connection to six additional circuits. (Maximum 19 list 2.)

5. GENERAL NOTES

5.01 When the length of the switchboard cable to the connecting circuit exceeds 20 feet, the output leads must be paired. If the length is less than 20 feet, pairing is not required.

5.02 A 115-volt, 60-Hz supply is required to operate the timer which automatically switches between the two MF generators.