

# ALLIANCE 2002 INSTALLATION MANUAL



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## INSTALLATION MANUAL FOR ALLIANCE 2002 SYSTEM TABLE OF CONTENTS

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### SYSTEM FEATURES

- No monthly rental bill for telephone line.
- Call Waiting with distinctive double tone.
- Distinctive double ring differentiates incoming calls from visitor calls.
- Capacity for up to 1536 Tenants.
- Dialing to Off-Premises Telephones
- Connection for concierge or guard telephone.
- Music-On-Hold Capability (Optional).

### LOBBY PANEL (FEATURES DETERMINED BY LOBBY PANEL CHOSEN INDICATED BY \*)

- All programming is done through system keypad.
- Non-Volatile Memory, retains programmed information during total power failure.
- Handsfree or Handset Option \*
- Two Programmable relay outputs to control door strikes, gates, cameras, etc. \*
- System operates with both touch tone and rotary phones.
- Adjustable Door Open period ( 3 - 45 sec. Or 1 - 99 sec.).\*
- Adjustable Conversation time ( 3-45 sec. Or 1 - 99 sec.).\*
- Door Open tone for both tenant and visitor.
- Warning Tone to Alert tenant that call will end in 10 seconds
- Microphone 'Mute' feature prevents unauthorized entry using a tone generator.
- Provision for Postal Service lock included.
- Door timer cutoff input prevents 'tail-gating' through entrance doors.\*
- Variable Tenant Code length, 1, 2, 3 or 4 digits.\*
- One 'keyless' entry code per tenant plus five for use by building management.\*
- Built in multiple entrance capability ( max.8).
- Tenant codes can be actual suite numbers or can be coded for security purposes.\*

**1.0 INSTALLATION HINTS**

- Arrangements must be made with your local telephone company for the installation of RJ71C or equivalent telephone jacks.
- Two 16 Volt UL listed Class 2 power transformers are required, one for the lobby equipment, and the other one, a 16 Volt 40 VA is required for the telephone room equipment.
- An additional transformer may be required for door strike activation. This transformer should have the necessary voltage and current rating for the door strike that is to be used, but can not exceed the 50 volt 3 amp relay contact rating.
- Transformers and remote devices such as the door strike, must be wired to the lobby panel. A wiring raceway must be provided for these devices to the rear of the lobby enclosure. Follow local building code requirements for low voltage wiring.
- If a Postal Service Lock is to be installed, arrangements must be made with the Post Office to have the lock supplied.
- A factory made wiring harness (3 feet long with 10 wires) is provided for the interconnection between cabinets in the telephone room. For longer distances, such as wiring between buildings, an additional terminal block is provided.

### 2.0 SPECIAL FEATURES

#### 2.1 Guard Phone

The ALXMC requires a standard tone type (DTMF) phone. The phone is connected directly to the control equipment via two conductors. In order to communicate with the tenant, the guard must enter the four digit relay number. The guard must wait for the dial tone prior to entering the relay number. If the system is busy (lobby is in use), the guard will not receive a dial tone.

To dial an off-premises telephone, dial the digit 9 first, wait for dial tone, then dial the required telephone number.

The conversation time from the guard phone is limited to 100 seconds.

#### 2.2 Call Waiting

The call-waiting feature provides the tenant with a double tone if they are busy with an outside call. The tenant may place the outside call on hold by depressing the hook switch (or by dialing digit 3 on tone telephones) to establish communication with visitor. The tenant can switch back to the outside call by again depressing the hook switch (or by dialing digit 3)

### 3.0 INSTALLATION

#### 3.1 Lobby Equipment

See installation manual for lobby panel chosen.

#### 3.2 Telephone Room Equipment

Mount the Main Control Cabinet (ALXMC) and Auxiliary Relay Cabinet (ALXRC) close to the RJ71/CA71 telephone jacks.

If cabinets are mounted adjacent to each other, wire connections between cabinets can be eliminated by using the supplied 3 foot long, 10 conductor cable to interconnect the Main Controller to the Relay Cabinets.

Connect one end of cable to JP1 on ALXMC (RED wire to right side) and other end to J9 on ALXRC (RED wire to left side).

If additional relay cabinets are used, connect cable from J10 of first cabinet to J9 of next relay cabinet (RED wire to left side on both).

Plug the Relay Cards into the proper locations. Set the Relay Cabinet Select Jumper (located in the top right corner of the Relay Cabinet) to the proper setting. For Relay Cabinet #1 set jumper to location #1, for Cabinet #2, set jumper to location 2, etc.

Make the wiring connections to the lobby equipment, guard phone, etc. as shown on the wiring diagram. Connect the relay cards to the respective RJ71C phone jacks using the necessary cables.

**Ensure that system is Properly Grounded.**

Finally, connect the 16 VAC to the system. The red Power On indicators will illuminate in all cabinets. It is recommended to test the control equipment separately prior to connecting it to the lobby equipment. To test communications with the tenant, connect a standard Touch-tone telephone to lobby or guard terminals. Dial the four digit Relay Number. The proper relay card indicator will illuminate and you will establish communication.

#### **4.0 SYSTEM PROGRAMMING**

All system programming is accomplished through the use of the lobby panel model used. No programming is required for the telephone room equipment. Use the supplied Directory Worksheets to generate a record of the building occupants, their suite numbers, assigned dial codes and keyless entry codes. These sheets will be required for programming and in the event that changes are to be made.

Complete the Programming Worksheet (Appendix E) that has been provided and ensure that this and the directory worksheets are given to building management when installation and programming is completed.

To program a code, use 5 plus 4 digits describing the relay number. For example the first relay number would be programmed as 50000, the 5<sup>th</sup> relay would be programmed as 50004, etc. See the programming instructions that came with the lobby panel chosen, for how to program code locations.

A relay number takes the place of a phone number, for most telephone access control units.

**APPENDIX A**

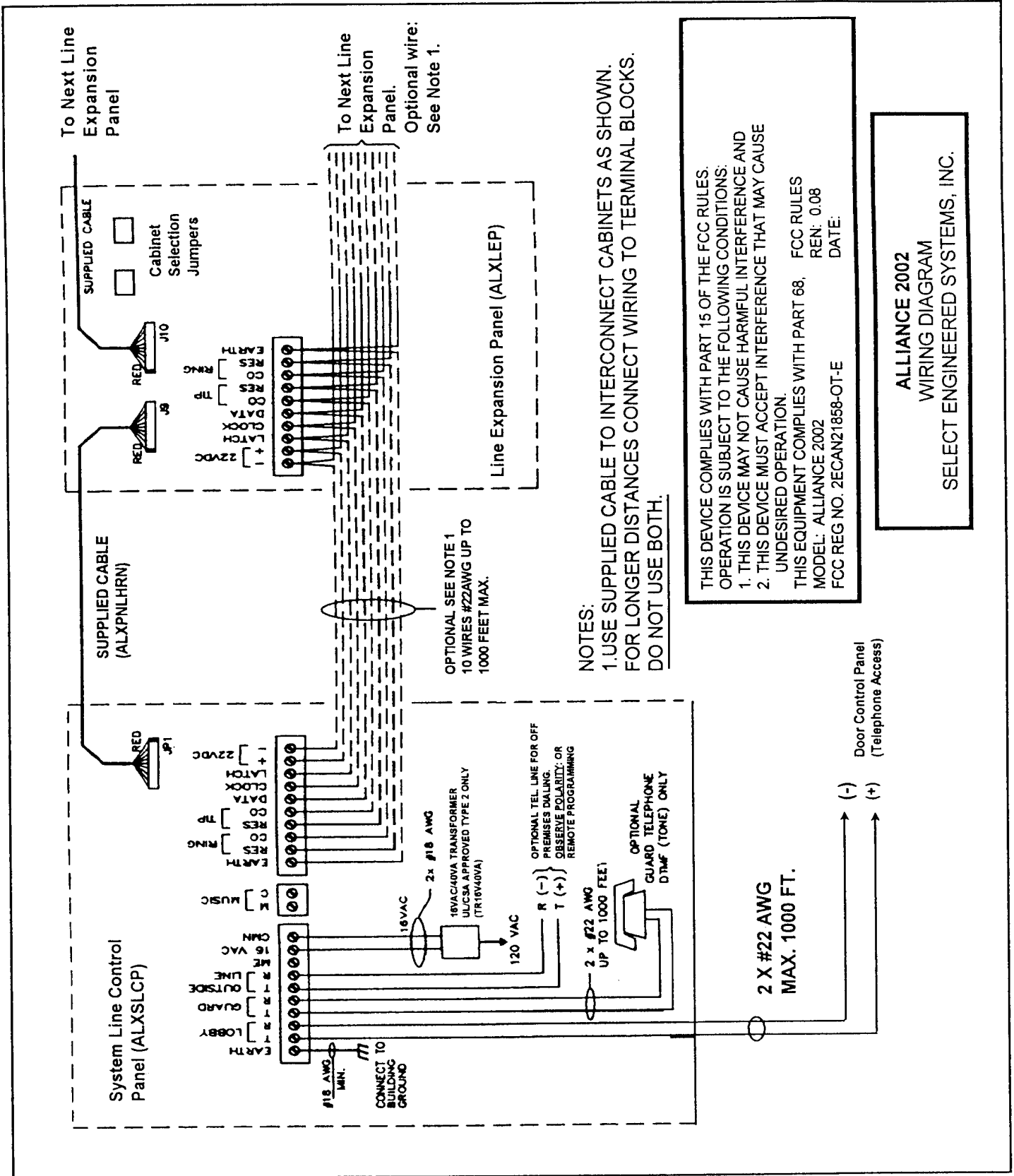
REGULATORY APPROVALS

FCC Part 68  
FCC Reg. No. 2E8CAN-21858-OT-E  
REN: 0.08

SYSTEM WARRANTY

Equipment is warranted to be free of defects in material and workmanship for a period of one (1) year from the original shipment date. SES will, at its option, repair or replace any equipment, which it determines to be defective in material or workmanship. SES shall not be responsible to repair or replace equipment that has been abused, incorrectly installed, repaired by others, altered or otherwise misused or damaged in any way.

APPENDIX B  
WIRING DIAGRAM



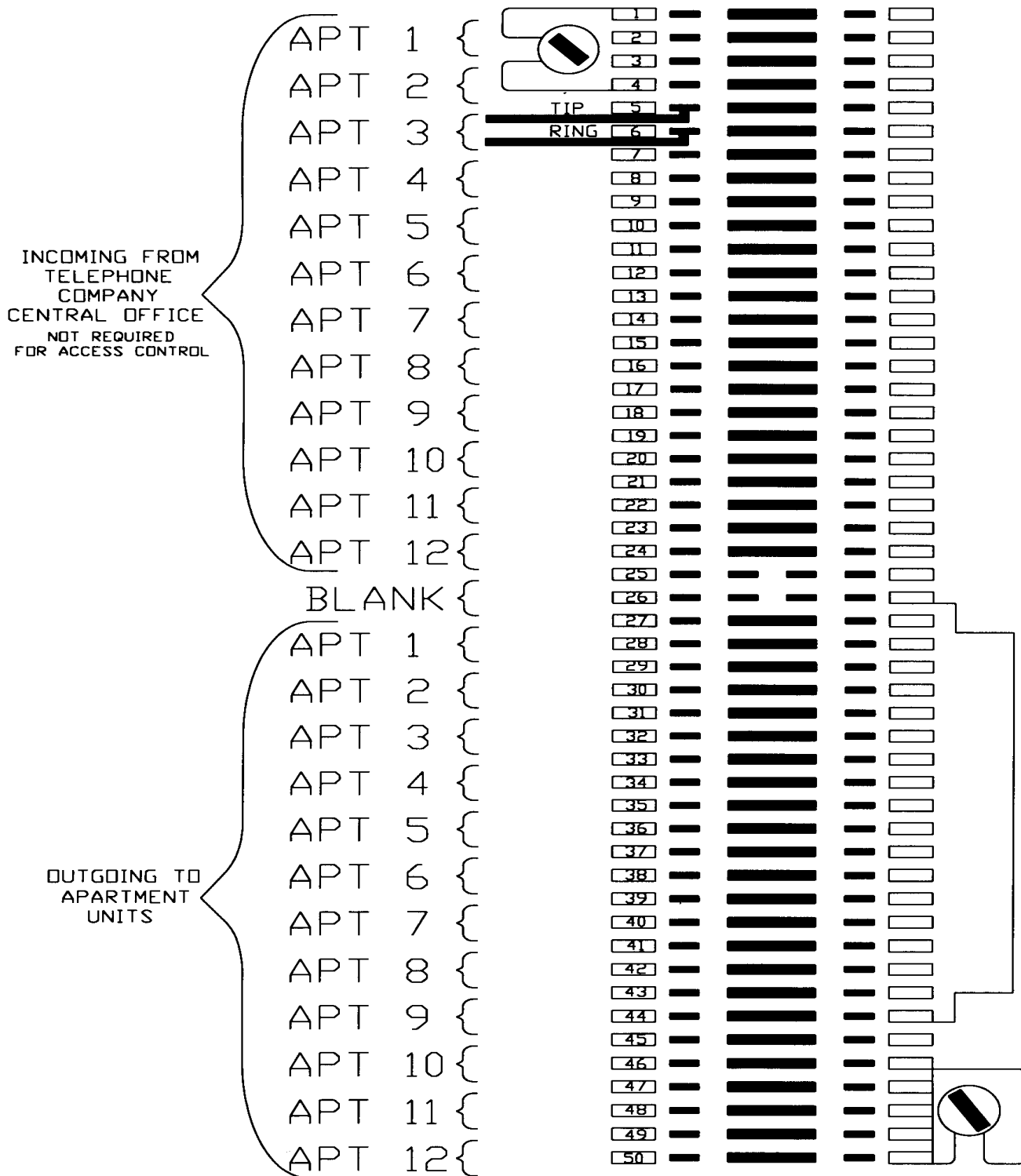
**NOTES:**  
1. USE SUPPLIED CABLE TO INTERCONNECT CABINETS AS SHOWN.  
FOR LONGER DISTANCES CONNECT WIRING TO TERMINAL BLOCKS.  
DO NOT USE BOTH.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING CONDITIONS:  
1. THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND  
2. THIS DEVICE MUST ACCEPT INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.  
THIS EQUIPMENT COMPLIES WITH PART 68, FCC RULES  
MODEL: ALLIANCE 2002 REN: 0.08  
FCC REG NO. 2ECAN21858-OT-E DATE:

ALLIANCE 2002  
WIRING DIAGRAM  
SELECT ENGINEERED SYSTEMS, INC.

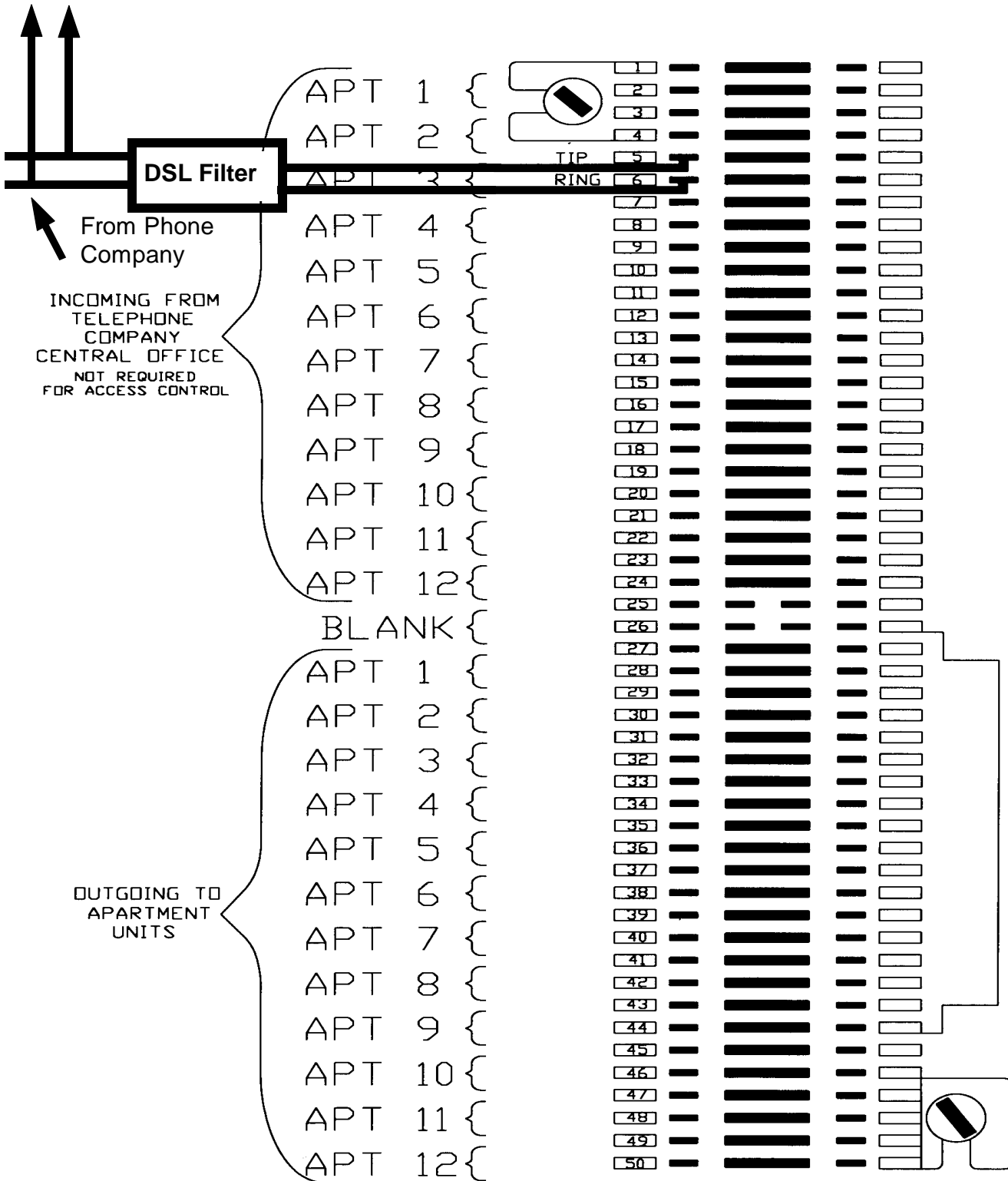


APPENDIX C CONNECTOR PIN ASSIGNMENT



APPENDIX D DSL Hookup.

To computer in apartment, on un-used pair of wires.









**INSTRUCTION TO THE U.S. USER/FCC REQUIRED INFORMATION****FCC REGULATIONS**

This device has been granted a registration number by the FCC, under part 68 rules and regulations governing devices that directly connect to the telephone lines. This equipment complies with Part 68 of the FCC rules. A label on the controller housing of the ALXMC contains, among other information, the FCC Registration Number and Ringer Equivalence Number (REN) for this equipment. You must, upon request, provide this information to your telephone company.

The REN is useful to determine the quantity of devices that you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices that you may connect to your line, you may want to contact your telephone company to determine the maximum REN for your calling area.

This equipment is designed to be connected to the telephone network or premises wiring using an RJ-71C jack which is FCC Part 68 compliant.

This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.

Should the Alliance 2002 cause harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But if advanced notice is not practical, you will be notified as soon as possible. You will be informed of your right to file a complaint with the FCC. The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

This equipment contains no user serviceable parts. If you experience trouble with this equipment, please contact:  
for information to obtain service or repairs. The telephone company may ask that you disconnect this equipment from the network until the problem has been corrected or until you are sure the equipment is not malfunctioning.

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***“BETTER TECHNOLOGY MAKES BETTER SYSTEMS”***

**03/04**



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