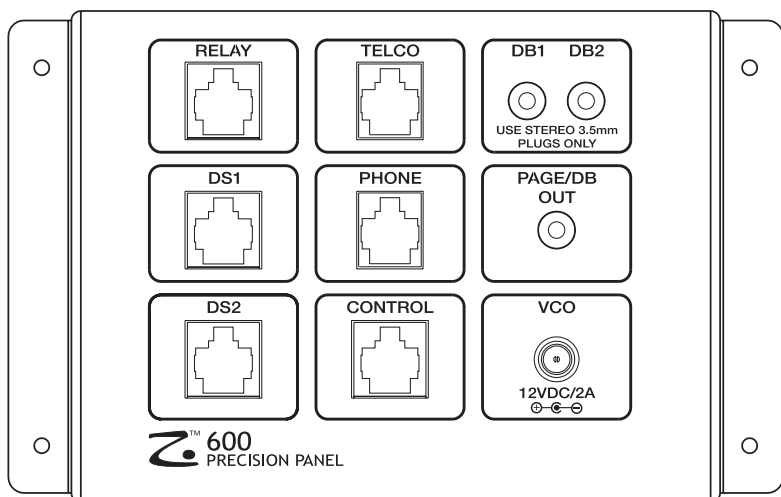


PZ600

 600 PRECISION PANEL



INSTALLATION MANUAL

ELAN

H O M E S Y S T E M S TM



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Introduction

The PZ600 Precision Panel facilitates the connection of telephone service, Page, Doorbell and Override signals, Relays and Door Stations to the Z•600 Communications Controller and ELAN S Series multi-room controllers.

The back of the PZ600 features 110-type punchdowns for the connection of incoming telephone service, telephone extensions, two ELAN Door Stations, four Relays and eight Volume Control Override signals. There's also an RJ-45 jack for a quick and easy link to the PVSE Electronic Volume Control Precision Panel.

The front panel of the PZ600 has RJ-11 jacks for Telco and Phone, and RJ-45 jacks for Relays, Override Control and 2 Door Stations. All just plug right into the back of the Z•600 Communications Controller. Doorbell 1 & 2 Trigger jacks are also provided for the easy connection to S12 or S6 Sense Inputs, as is a Page/Doorbell Out jack for connection to the S12. A 12 VDC power supply for triggering of ELAN Volume Controls w/ Override is included with the PZ600.

The PZ600 is one of ELAN's 1/2 frame Precision Panels and is designed to be mounted in a PF2 Precision Panel Frame (see page 5).



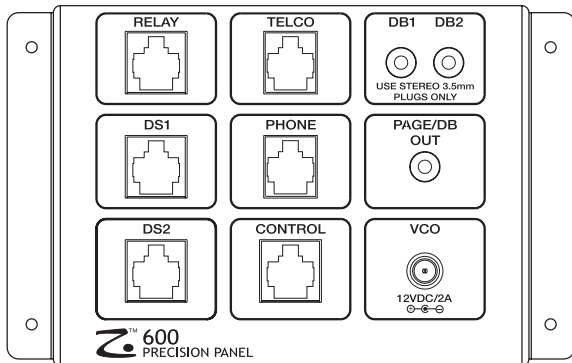
H O M E S Y S T E M S TM

2428 Palumbo Dr.
Lexington, KY USA 40509
Voice 859.269.7760
Tech Support 800-622-3526

Introduction (continued)

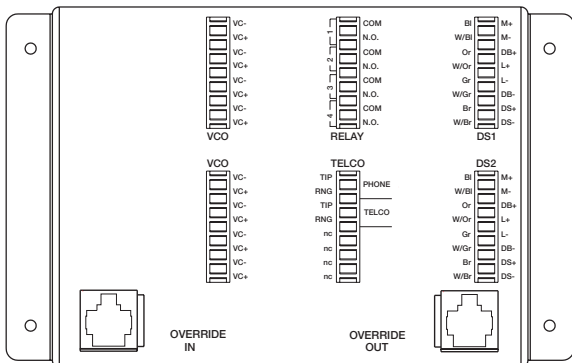
PZ600 Front/Rear Panels

Front



- **RELAY**
Connects to RELAY 1-4 of Z•600
- **TELCO**
Connects to TELCO IN of Z•600
- **DB1/DB2**
Connects to Sense Inputs of S6/S12/SR1/SS1
- **DS1**
Connects to DOOR SPEAKER 1 IN
- **PHONE**
Connects to PHONE OUT of Z•600
- **PAGE/DB OUT**
Connects to PAGE TRIGGER IN of S6 or S12
- **DS2**
Connects to DOOR SPEAKER 2 IN
- **CONTROL**
Connects to CONTROL OUTPUTS of Z•600
- **VCO**
Connects to 12VDC power supply (included)

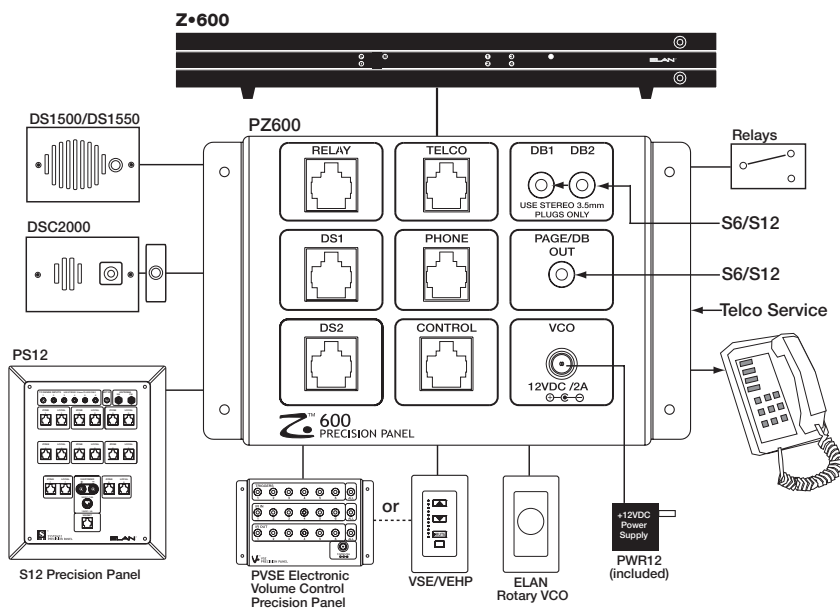
Rear



- **VCO**
Connects to VC+/VC- of ELAN Volume Controls w/ Override .
- **RELAY**
Connects to closed-contact relays
- **DS1/DS2**
Connects to ELAN Door Stations
- **TELCO**
• **PHONE**
Connects to house phones
- **TELCO**
Connects to incoming phone service
- **override OUT**
Connects to additional PZ600
- **override IN**
Connects from an additional PZ600

Introduction (continued)

System Overview



Features

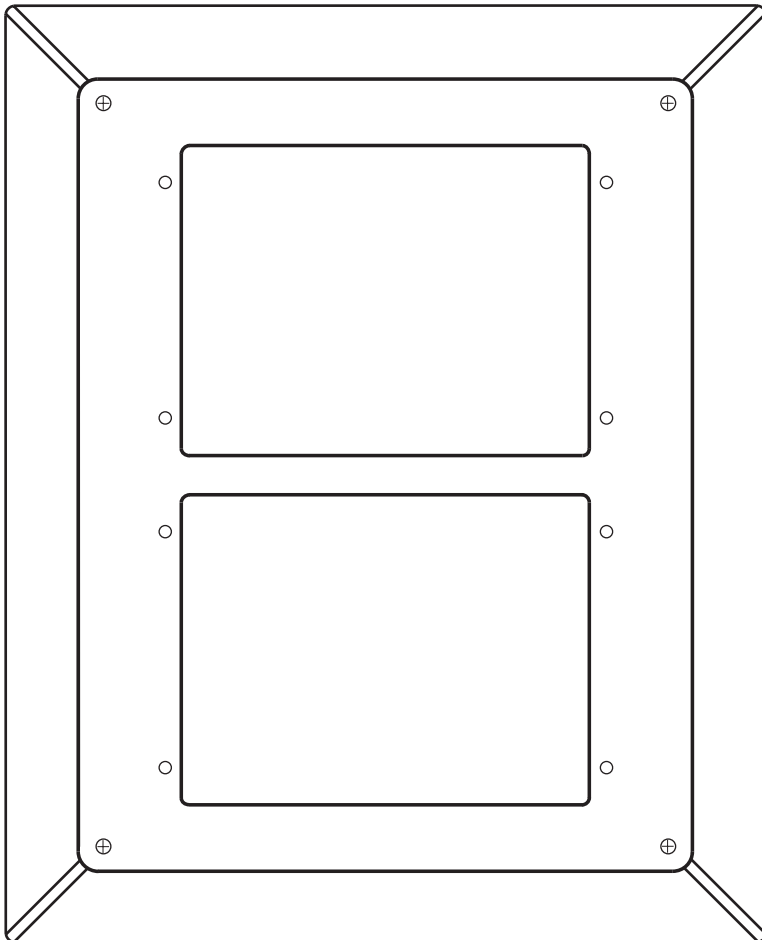
- 1/2 Frame Precision Panel for Z•600 Communications Controller
- 110 Punch-down Connectors for Telephones, Override, Relays, and Door Stations
- Clearly labeled silkscreen for error-free terminations
- Front Panel RJ-45/RJ-11 and 3.5mm Jacks for Plug n' Play Connections to Z•600, S12, and S6
- 12VDC, 2A Power Supply Included
- Fits in PF2 Precision Panel Frame (required for installation)

Installation

PF2 Precision Panel Frame

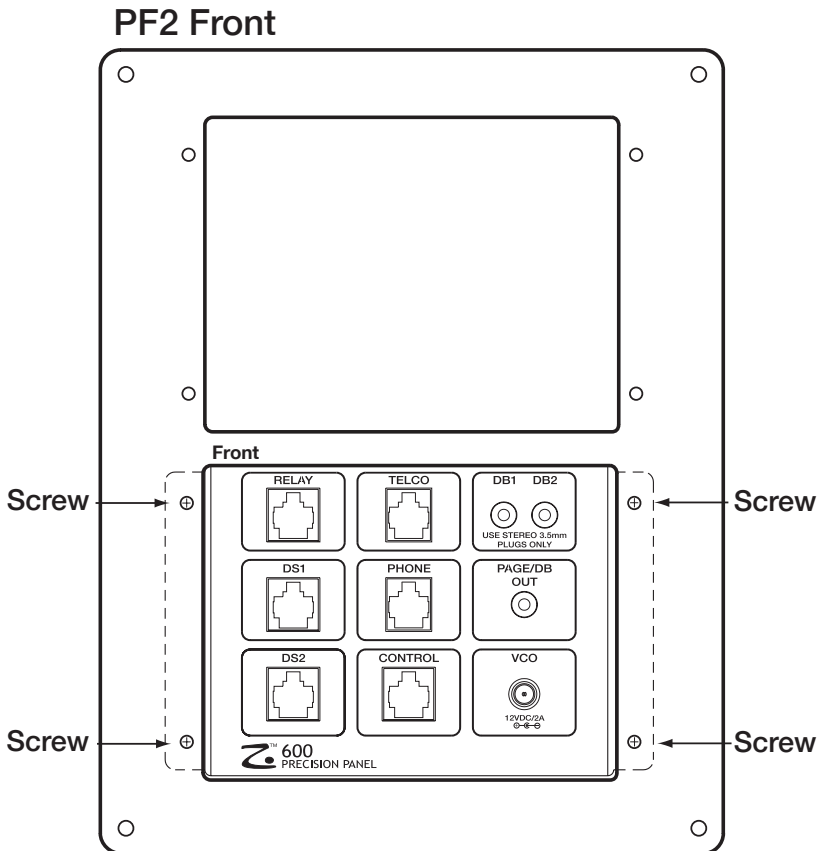
The PF2 accommodates any two 1/2 frame Precision Panels. The kit includes a full-size Precision Panel frame, an insert with pre-drilled holes for the mounting of two 1/2 frame Precision Panels, mounting screws, and a blank 1/2 frame plate to cover an unused half of the frame. PBKT6P new-construction brackets are available, or the PF2 can easily be retro-fitted using the four clamping legs attached to the frame, which clamp the panel securely to drywall.

Note: The PF2 is required for the installation of all 1/2 frame Precision Panels.



Installation (continued)**Mounting the PZ600 to the PF2**

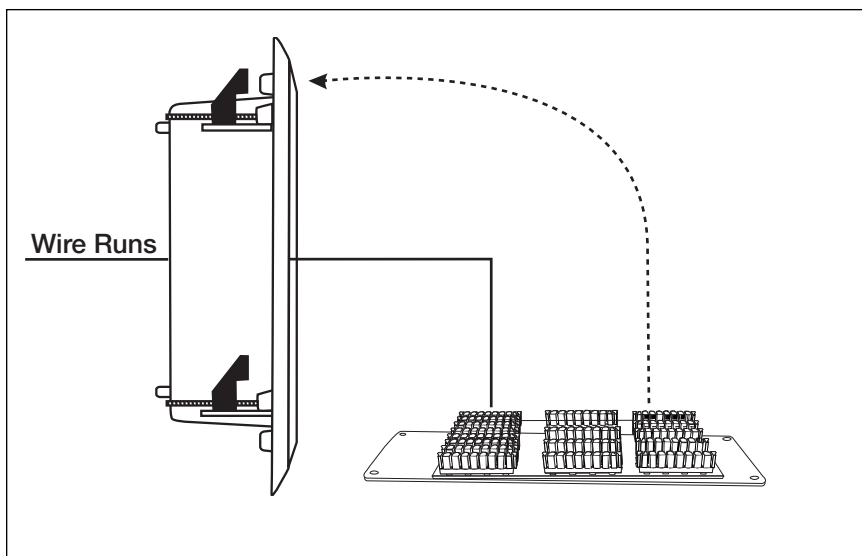
Each 1/2 frame Precision Panel mounts from the back of the PF2. Use four included screws inserted from the front of the PF2 as shown below.



Installation (continued)

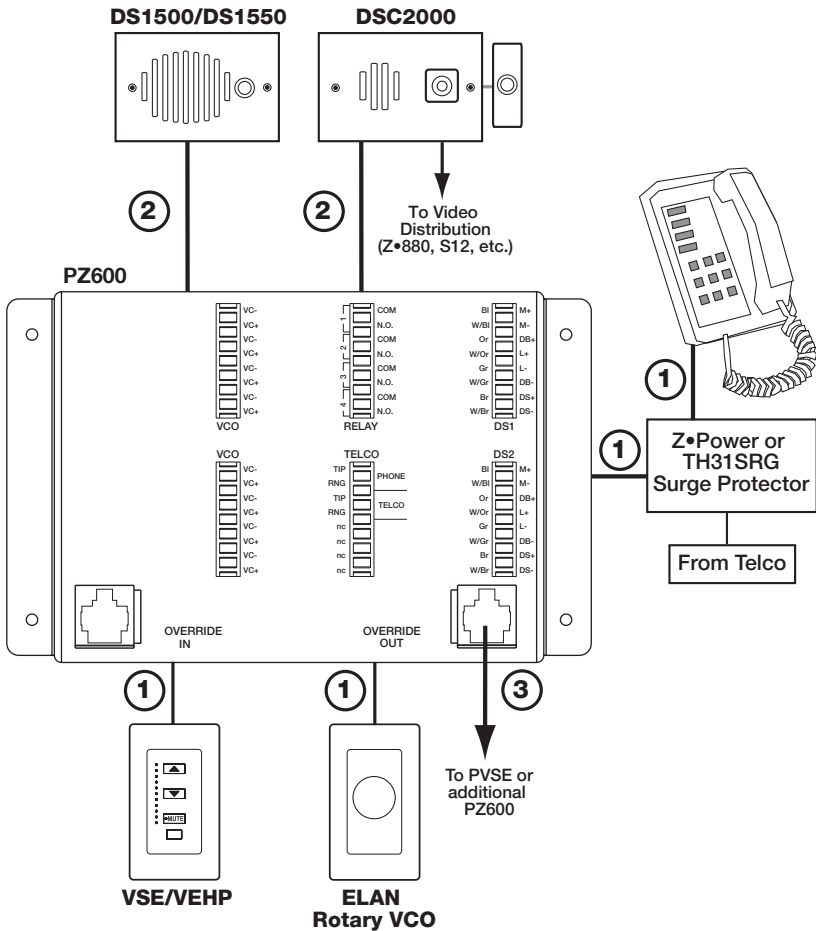
Trim-Out

All system wire runs are pulled through the PF2 frame. Lay the PZ600 front panel (attached to the PF2) on the floor in front of the frame and make all connections. Dress the wires in neat bundles, being careful not to pull off any punchdown connections, and then carefully place the PZ600/PF2 back into the frame and secure using the four screws provided.



Connections-Rear

PZ600 System Wire Runs-Rear

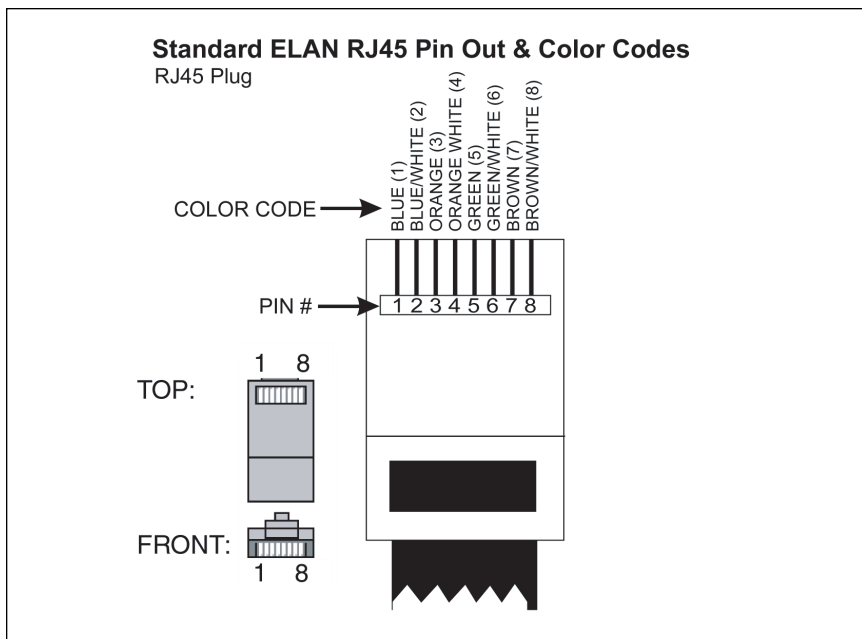


- ① Cat-5
- ② 22-24 AWG 4 Twisted-Pair Shielded Wire w/ Drain
- ③ ELAN C4545 RJ-45 Interconnect Cable

Connections-Rear (continued)

RJ-45 Pin Out

ELAN recommends using ELAN C4545 and/or C45P RJ-45 interconnect cables for all Cat-5 connections to the PZ600. Should you prefer to terminate your own RJ45 cables, refer to the diagram below for the correct pin-out.



PZ600 Punch-Down Connectors

The back of the PZ600 uses standard 110 punch-down connectors for all wire runs. Wires do not need to be stripped prior to punch-down as the insulation will automatically be displaced. Each punch-down row will accept two 24 or 22 AWG solid conductor wires. Use the included 110 punch-down tool to properly make connections and avoid damaging the PZ600.



110 Punch-Down Connector

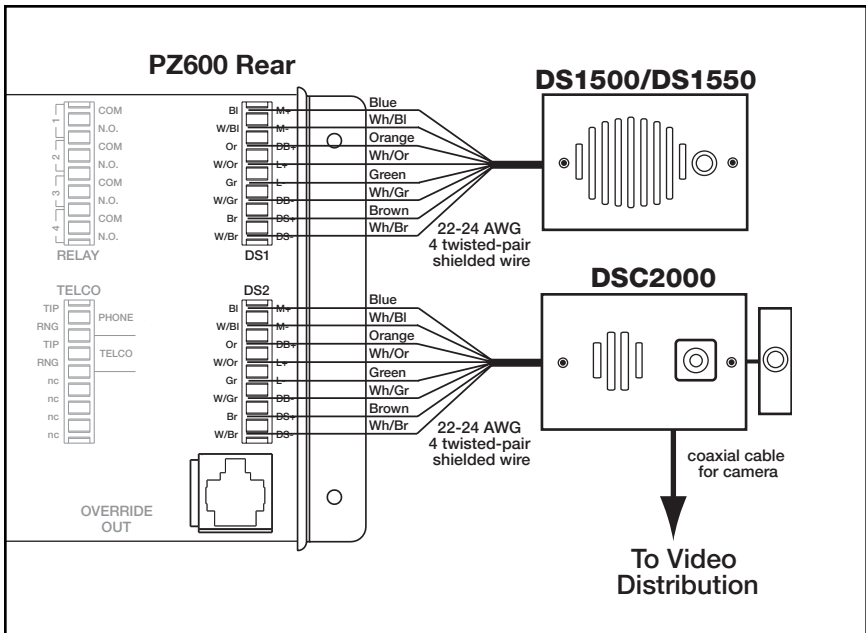
NOTE:

The PZ600 comes with Punch-down caps to ensure that wiring connections won't come loose.

Connections-Rear (continued)

Door Station Connections

Use 22-24 AWG 4 twisted-pair shielded wire w/drain to connect ELAN's DS1500, DS1550 and/or DSC2000 Door Stations to the PZ600 as shown below. Multiple Door Stations can be used, but only two different door chimes can be heard. When installing multiple Door Stations, wire **DB** and **MIC** connections in parallel; wire **DS** connections in series.

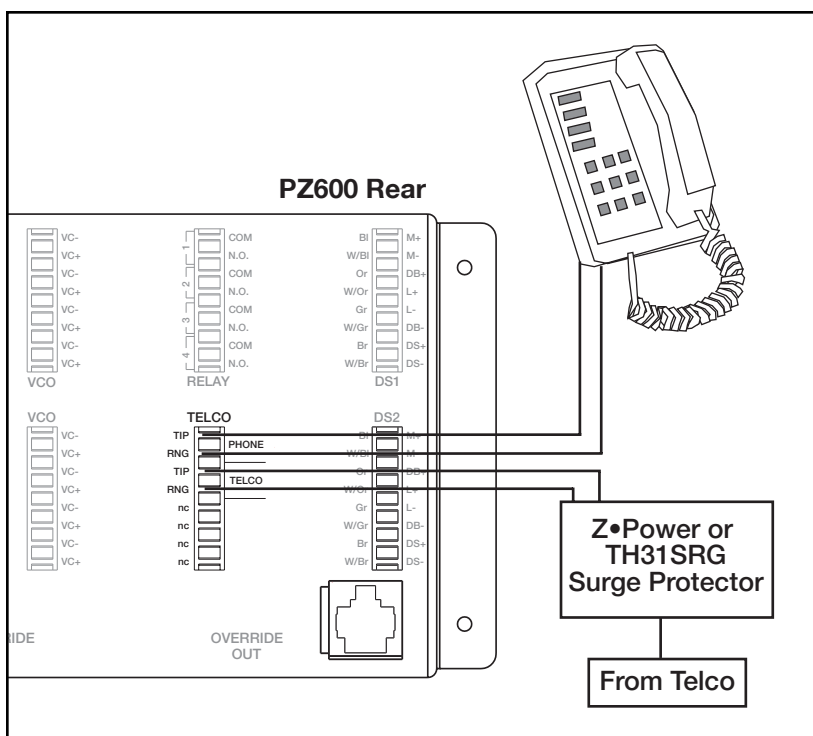


Connections-Rear (continued)**Telephone (Telco) Connections**

A single Z•600 Communications Controller can be linked to one telephone line (Telco). The PZ600 provides an easy punch-down connection point for Telco In and Out. Connect the incoming line to **TELCO TIP** and **RING** as shown below. Connect an outgoing line from **PHONE TIP** and **RING** to the telephone distribution location.

ELAN strongly recommends the use of telephone line surge protectors, such as the Z•Power Controller or TH31SRG SW module.

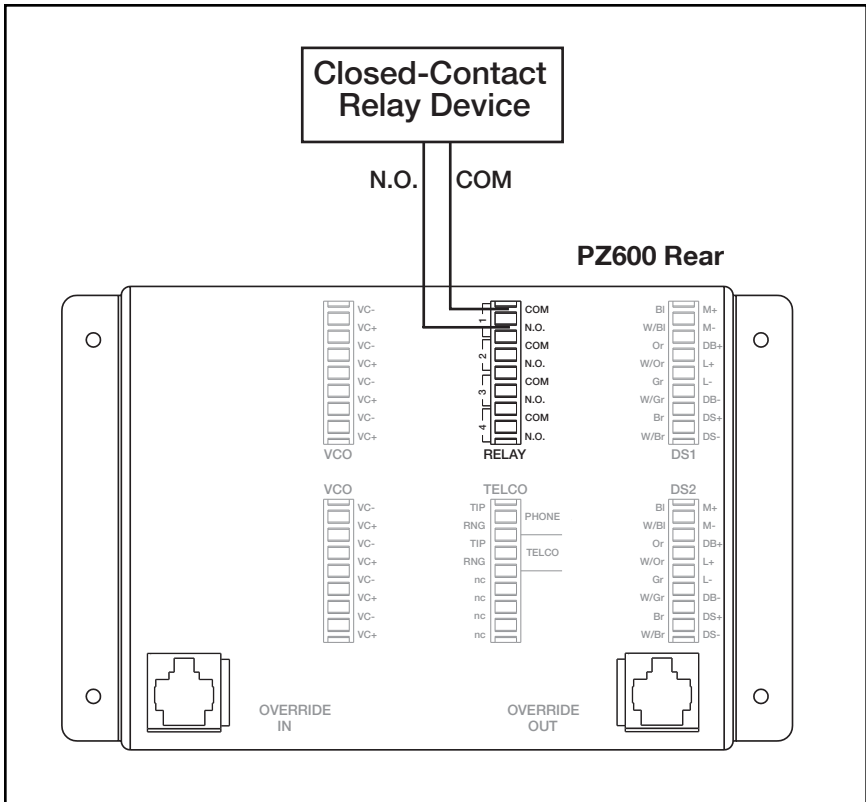
Note: Make all Telco connections related to security systems, satellite receivers, modems, etc., in front of the PZ600. The Z•600 has a distinctive dial-tone that can interfere with these systems. See the **Z•600 Installation Manual** for complete information.



Connections-Rear (continued)

Relay Connections

The Z•600 features four telephone-activated relays. The PZ600 has provisions to punch-down **COM** and **N.O.** leads from closed-contact, relay-activated devices such as garage door openers or lighting systems. See the Z•600 Installation Manual for details.



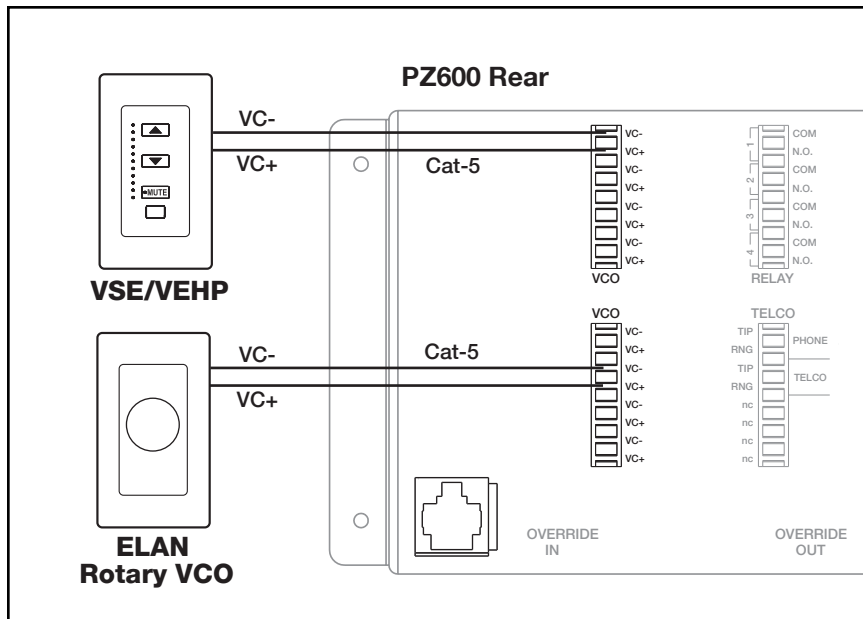
Connections-Rear (continued)

Volume Control Override (VCO) Connections

ELAN's patented Volume Control Override feature allows users to hear Page and Doorbell audio at a preset level regardless of volume settings. All areas utilizing ELAN Volume Controls w/Override require two conductors to carry VC+ and VC- signals from the Z•600 to the volume controls in that area. ELAN specifies Cat-5 wire for this purpose.

The PZ600 provides punch-down connections for up to sixteen Volume Controls w/Override. Each of the eight **VC+/VC-** punch-down positions can accommodate two VCOs (one punched-down on top of the other).

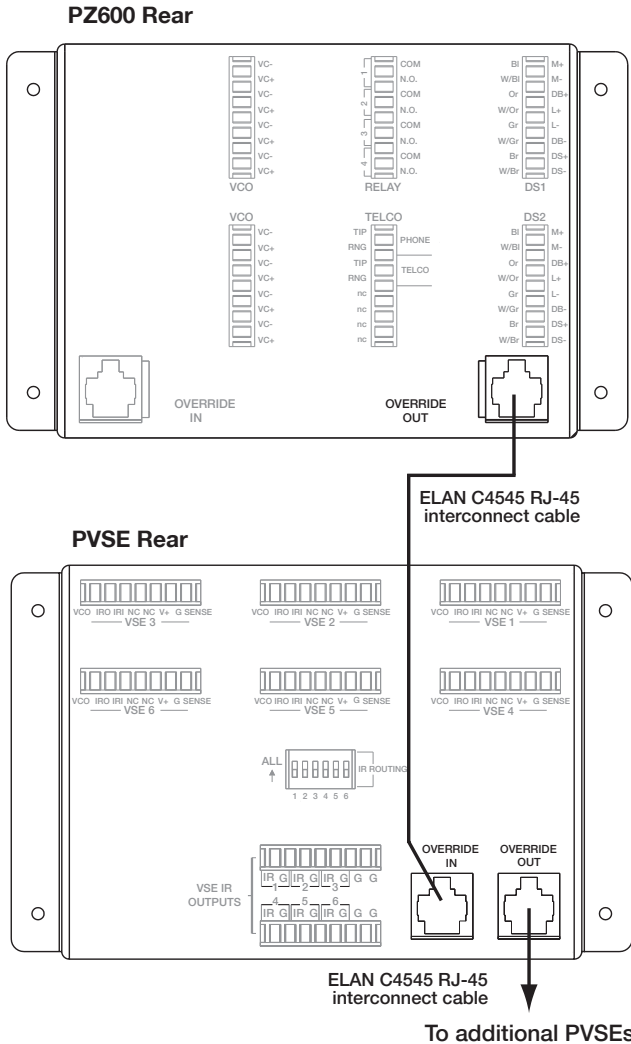
Connect the Volume Control Override signal from a PZ600 directly to the **VC+** and **VC-** terminals of rotary or electronic volume controls as shown below. Make sure to connected the included PWR12 12VDC/2A power supply to ensure that enough voltage is present to activate the Override signal.



Connections-Rear (continued)

PZ600 to PVSE Connections

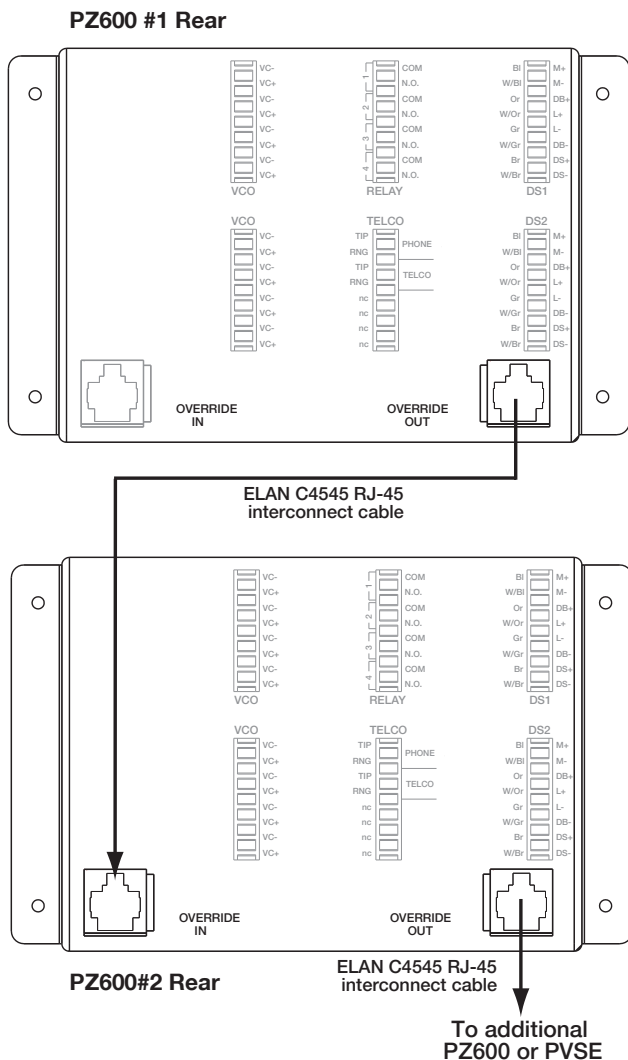
When installing a PVSE Precision Panel for Electronic Volume Controls, connect an ELAN C4545 RJ-45 patch cable from **OVER-RIDE OUT** of the PZ600 to **OVERRIDE IN** of the PVSE. This will allow the Override signal to reach all electronic volume controls in the system with one simple connection.



Connections-Rear (continued)

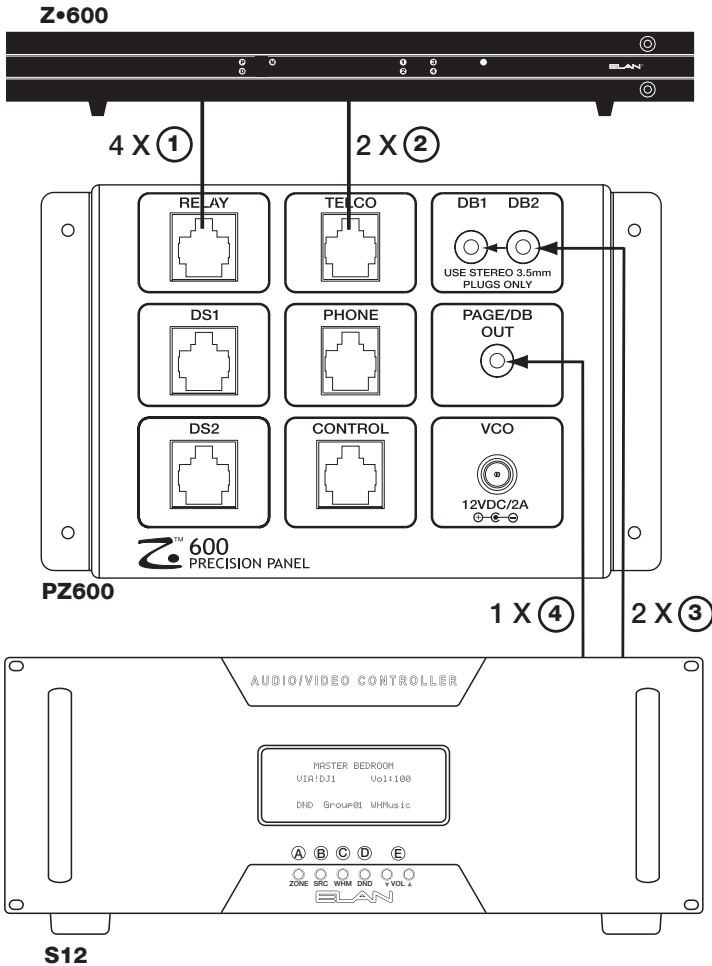
Override In/Out Connections

When installing multiple PZ600s, connect an ELAN C4545 RJ-45 patch cable from **VERRIDE OUT** of the first PZ600 to **VERRIDE IN** of the second PZ600. If using more than one Z•600, an additional PZ600 will be required for each Z•600. Consult the **Z•600 Installation Manual** for important information about connecting multiple Z•600s.



Connections-Front

PZ600 System Wire Runs-Front

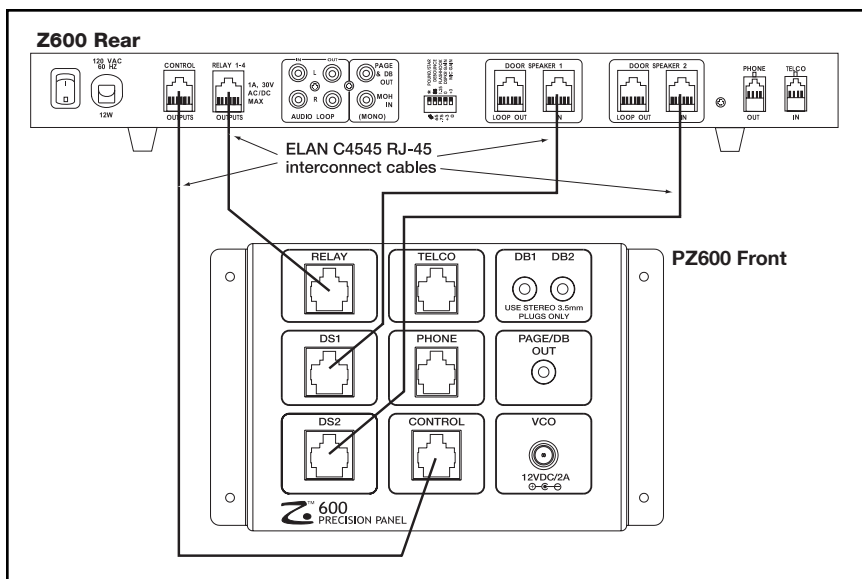


- ① ELAN C4545 RJ-45 Interconnect Cable
- ② RJ-11 Telephone Cable
- ③ Stereo 3.5mm Interconnect Cable
- ④ Mono 3.5mm Interconnect Cable (Can substitute w/ Stereo)

Connections-Front (continued)

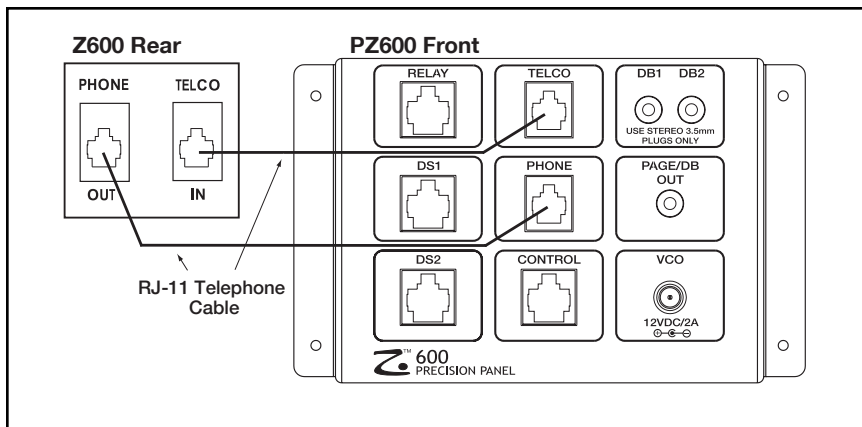
Relay, DS1, DS2, and Control Connections

Use ELAN C4545 RJ-45 Interconnect cables to make **RELAY**, **DS1**, **DS2**, and **CONTROL** connections between the PZ600 and the Z•600 Communications Controller as shown below.



Telco/Phone Connections

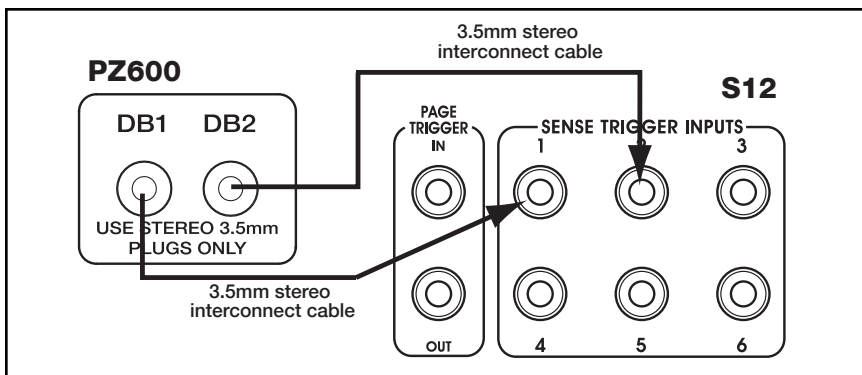
Use RJ-11 telephone cables to connect the **PHONE** and **TELCO** jacks between the PZ600 and the Z•600 as shown below.



Connections-Front (continued)

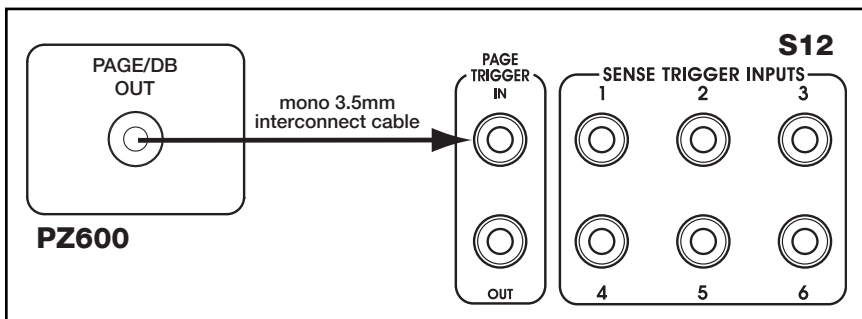
DB1/DB2 Connections

The PZ600 features dual Doorbell Trigger outputs that allow ELAN devices with Sense Inputs (S6, S12, VIA!®SR1, and VIA!®2-SS1) to respond to independent Doorbell sequences. In practical terms, this means that VIA! Touch Panels in the system can display different cameras when activated by different Doorbells, depending on how they are programmed. The **DB1** and **DB2** ports send signals that are passed-through the S6 or S12 and activate IR or Serial sequences that are programmed into connected VIA! Touch Panels. Use a stereo 3.5mm interconnect cable when using the **DB1/DB2** ports. See VIA!TOOLS Help for additional information on programming multiple Doorbell sequences.



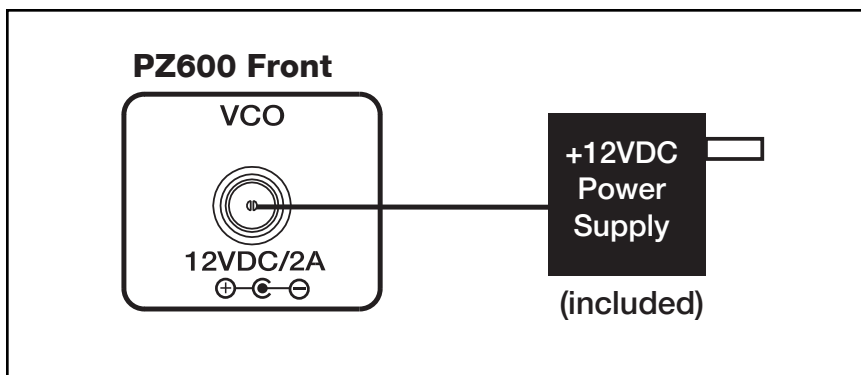
Page/DB Out Connections

Use the **PAGE/DB OUT** port to connect to the **PAGE TRIGGER IN** of a System6 or System12 multi-zone controller in order to activate Page and Telemute. Use this connection even if independent Doorbells are being utilized. ELAN specifies a mono 3.5mm interconnect cable for this purpose, however, a stereo 3.5mm interconnect cable can also be used.



Connections-Front (continued)**VCO 12VDC/1.5A**

The PZ600 includes a +12VDC, 2A power supply for powering ELAN Volume Controls w/ Override. Plug the power supply into the front of the PZ600 as shown below.



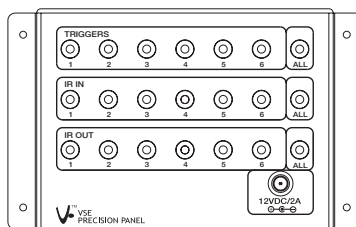
Notes:

ELAN 1/2 Frame Precision Panels

ELAN's new 1/2 frame Precision Panels save time and make sense out of complex wiring tasks. Add reliability and simplicity to your installs by using them in every job!

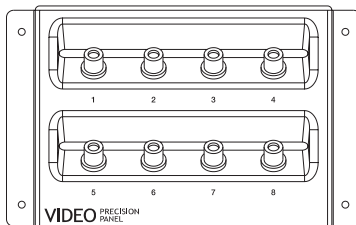
PVSE

The PVSE Precision Panel makes it easy to connect up to six ELAN Electronic Volume Controls to any ELAN system, and is also the perfect trim-out solution for Electronic Volume Controls in any stand-alone system!



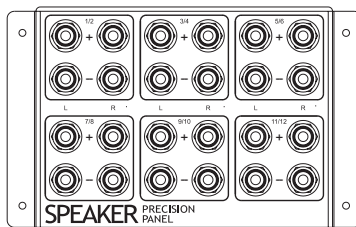
PV8

The PV8 Video Precision Panel provides a clean and easy way to connect up to 8 runs of coaxial cable to the System12 A/V Controller or Z•880 Video Controller.



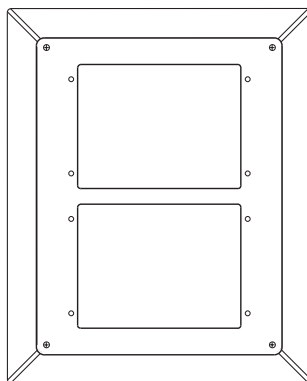
PSP6

The PSP6 Speaker Precision Panel is a neat and easy way to connect in-wall wire runs from up to six pairs of speakers (twelve speakers total) to a system's amplifier.



PF2

The PF2 Precision Panel Frame accommodates any two 1/2 frame Precision panels (PZ600, PVSE, PV8, & PSP6). This kit includes a full-sized Precision panel frame, a blank 1/2 frame plate to cover any unused half of the frame, and all mounting hardware. Required for use with all 1/2 frame Precision Panels.



Limited Warranty

ELAN HOME SYSTEMS L.L.C. ("ELAN") warrants the PZ600 Precision Panel to be free from defects in materials and workmanship for the period of two years (2 years) from date of purchase. If within the applicable warranty period above purchaser discovers that such item was not as warranted above and promptly notifies ELAN in writing, ELAN shall repair or replace the item at the company's option. This warranty shall not apply (a) to equipment not manufactured by ELAN, (b) to equipment which shall have been installed by other than an ELAN authorized installer, (c) to installed equipment which is not installed to ELAN's specifications, (d) to equipment which shall have been repaired or altered by others than ELAN, (e) to equipment which shall have been subjected to negligence, accident, or damage by circumstances beyond ELAN's control, including, but not limited to, lightning, flood, electrical surge, tornado, earthquake, or other catastrophic events beyond ELAN's control, or to improper operation, maintenance or storage, or to other than normal use of service. With respect to equipment sold by, but not manufactured by ELAN, the warranty obligations of ELAN shall in all respects conform to the warranty actually extended to ELAN by its supplier. The foregoing warranties do not cover reimbursement for labor, transportation, removal, installation or other expenses which may be incurred in connection with repair or replacement.

Except as may be expressly provided and authorized in writing by ELAN, ELAN shall not be subject to any other obligations or liabilities whatsoever with respect to equipment manufactured by ELAN or services rendered by ELAN.

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