

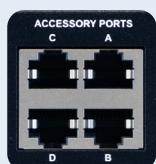


INTRODUCTION

The Z624 accessory ports allow for the connection of wall panels, a paging station and audio input sources. Please follow the guide below to set up your system.

Key:

Z624



Wall Controllers



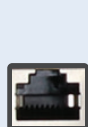
Audio Sources



Paging Station



Each port supports 2 wall controllers and 2 audio sources, or 1 audio source and a paging station



Each accessory port supports:

TWO WALL CONTROLLERS

In default mode, the wall controllers will only control the sources and levels for the corresponding zone. e.g. Accessory Port A controls ZONE A, Accessory Port D controls ZONE D
Advanced Mode: Use the configuration software to customise the wall panel functions.

AND

TWO AUDIO SOURCES

The two audio sources SUM together in the Z624 and replace INPUT 6 for that zone. (Local input DIP switch setting must be ON)

Note: The audio sources are locked to the zone.

If the audio source is required in other zones, the audio source should be connected to one of the shared inputs 1-5 instead of using the accessory port audio input.

OR

ONE Z624PS PAGING STATION AND ONE AUDIO SOURCE

Only one paging station is supported in the system and can be connected to any accessory port. When a paging station is used the remaining local audio input is used for the audio input source.



STEP 1: CONFIRM YOU DO NOT EXCEED THE FOLLOWING LIMITS

Maximum cable length per port	Accessories per port	Maximum Accessories in system
250m	4	16
350m	3	
500m	2	

The maximum distances quoted in the table above are due to DC current limitations. The paging station and wall panels can be locally powered to increase the cable length to a maximum of 500m.

STEP 2: ACCESSORY PORT WIRING

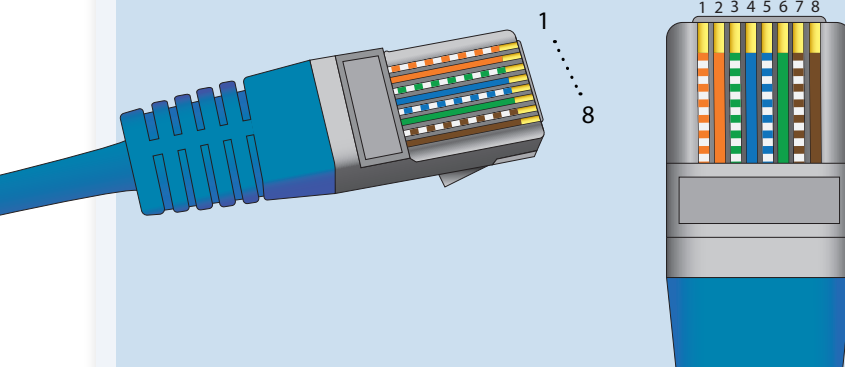
There are two wiring standards which can be used, T-568B and T-568A.

The difference between the two standards are the orange and green wiring pairs are different.

- T-568B (orange pair are on pins 1+2, green pair are on pins 3+6)
- T-568A (orange pair are on pins 3+6, green pair are on pins 1+2)
- We recommend using T-568B but either standard is supported.
- **Pick one standard only and use it for all connections.**

Z624 AND Z624PS WIRING STANDARDS

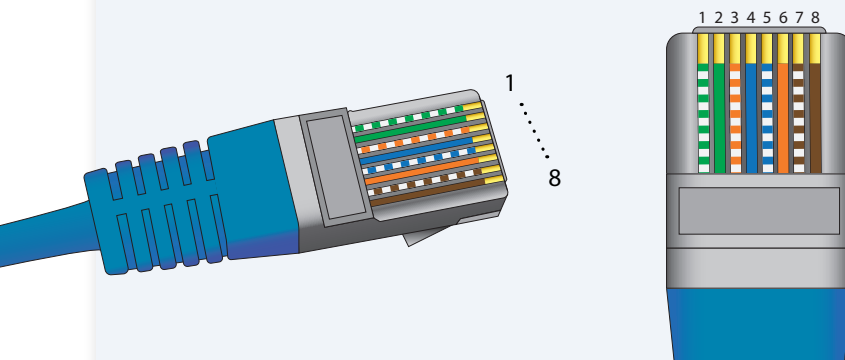
T-568B STANDARD (RECOMMENDED)



Pin	Colour	Signal
1	Orange/White	Paging Audio + or Remote Input 2 +
2	Orange	Paging Audio - or Remote Input 2 -
3	Green/White	RS485 B
4	Blue	+24V DC
5	Blue/White	GND
6	Green	RS485 A
7	Brown/White	Remote Input 1 +
8	Brown	Remote Input 1 -

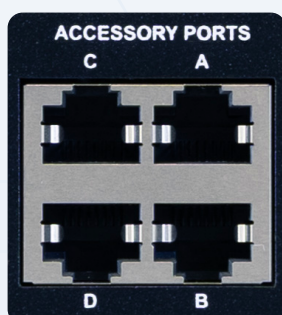
*T-568B wiring standard recommended

T-568A STANDARD



Pin	Colour	Signal
1	Green/White	Paging Audio + or Remote Input 2 +
2	Green	Paging Audio - or Remote Input 2 -
3	Orange/White	RS485 B
4	Blue	+24V DC
5	Blue/White	GND
6	Orange	RS485 A
7	Brown/White	Remote Input 1 +
8	Brown	Remote Input 1 -

Z624



Z624PS



STEP 2: ACCESSORY PORT WIRING (CONT.)

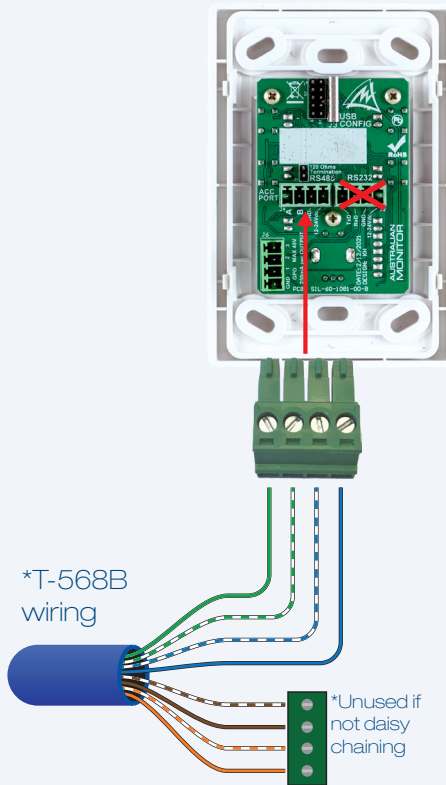
Wire the wall panels as per the images below.

- Category 5, 5e and 6 cabling supported.
- T-568B wiring recommended. However, T-568A also supported.

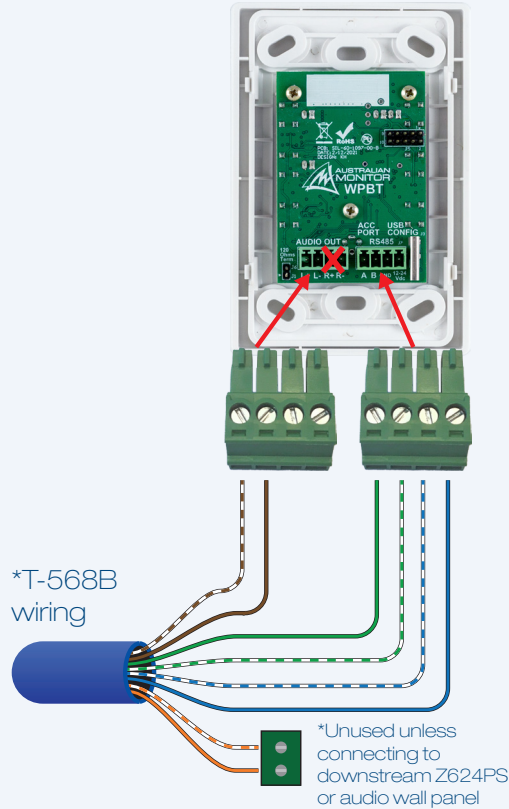
T-568B wiring

1	Paging Audio +/- Remote Input 2+
2	Paging Audio +/- Remote Input 2-
3	RS485 B
4	+24V DC
5	GND
6	RS485 A
7	Remote Input 1+
8	Remote Input 1-

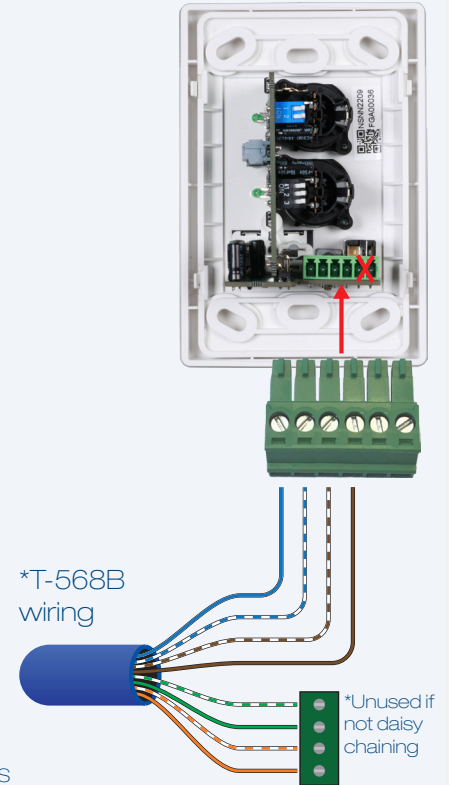
WP4R, WP10, WPVOL WIRING



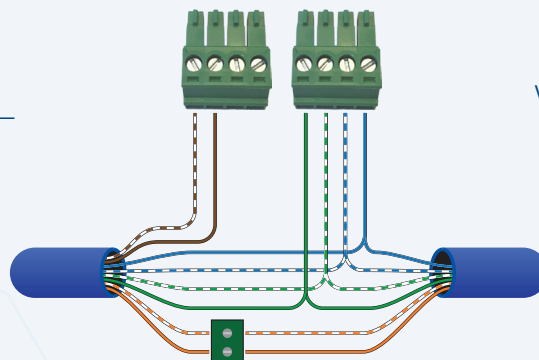
WPBT WIRING



WPML WIRING

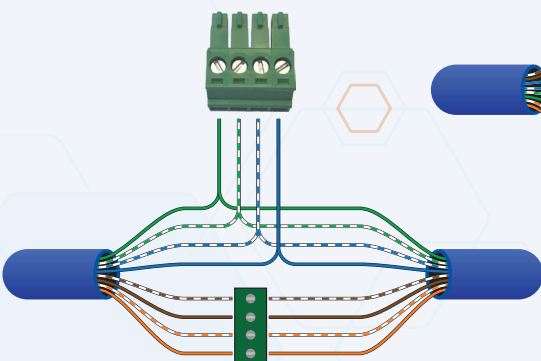


WPBT daisy chain wiring

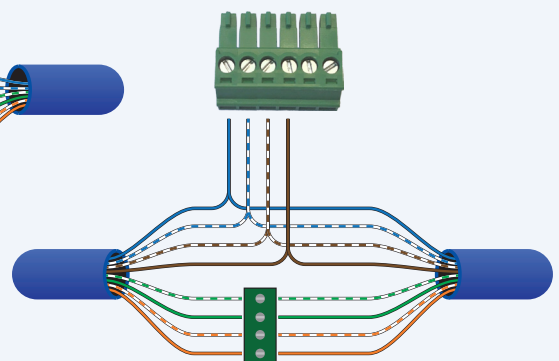


*Set the WPML DIP switches to output MONO mode

WP4R, WP10, WPVOL daisy chain wiring



WPML daisy chain wiring





STEP 2: ACCESSORY PORT WIRING (CONT.)

Wire the Z624PS as per the image below.

- Category 5, 5e and 6 cabling supported.
- T-568B wiring recommended. However, T-568A also supported.

Z624PS WIRING



STEP 3: PORT TERMINATION – DO NOT SKIP THIS STEP

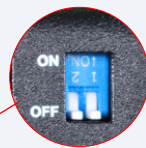
The Z624 uses the RS485 standard to communicate to wall panels and paging stations. RS485 requires that the end of the cable run is terminated to prevent signal corruption due to signal reflections in the cable.

- If the paging station is the last device, turn on it's PORT TERM switches as shown below.
- If a wall panel is the last device, add the jumper to the connector as shown below.

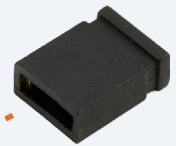
1. Terminate the LAST RS485 accessory on the port cable run.

Paging station termination

Z624PS

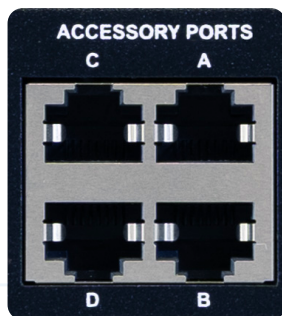


Wall panel termination

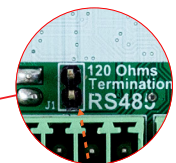


Note: WPML and WPXLR wall panels do not require termination

Example:



Terminate end points



Z624PS

