

# Evacuation Intercom System

with Keypad & Display

**TYPE: SERIAL BUS**

## **IMPORTANT: READ PRIOR TO INSTALLATION**

- Each Landing Speaker supplied should be installed on the designated landing as they are pre-assigned a unique address (Do not change the address as they are assigned from the factory. Contact Windcrest before changing address).
- The Master Switching Panel (with push buttons for each landing) should be installed on the main landing.
- The EURO Switch has a set of contact (via multi-way cable) which can be connected to the lift controller to place the lift in Evacuation Mode. These contacts operate at the same time as the Evacuation intercom is switched ON.
- The basic configuration of the system is that all the speakers and Power Supply Unit are interconnected in a “Daisy Chain”. The Power Supply unit can be installed anywhere in the chain.

To simplify the installation, we recommend the use of RJ45 Connectors on the end of CAT5 cable.

- Check the RJ45 Cables with the RJ45 Cable tester provided with the Kit before powering up the system.
- To interface the Serial Evacuation System to an existing autodialler, there will be a need of Serial Car Speaker Interface Unit.
- Power Boosters will be needed to be installed as per the system drawing after every 10 outstations.

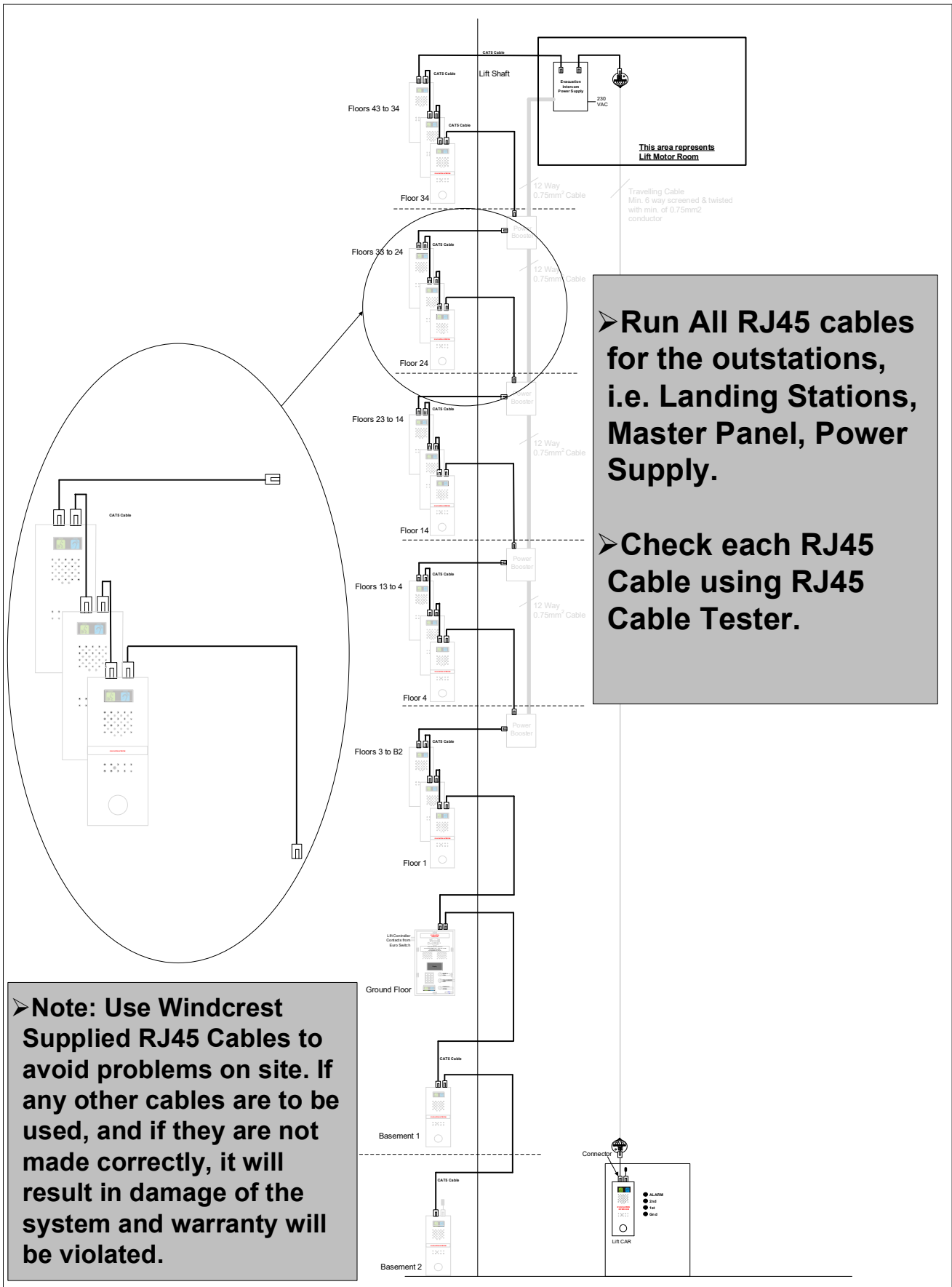
Serial Evacuation System

Drawing: Installation  
01/03/20

Page 1

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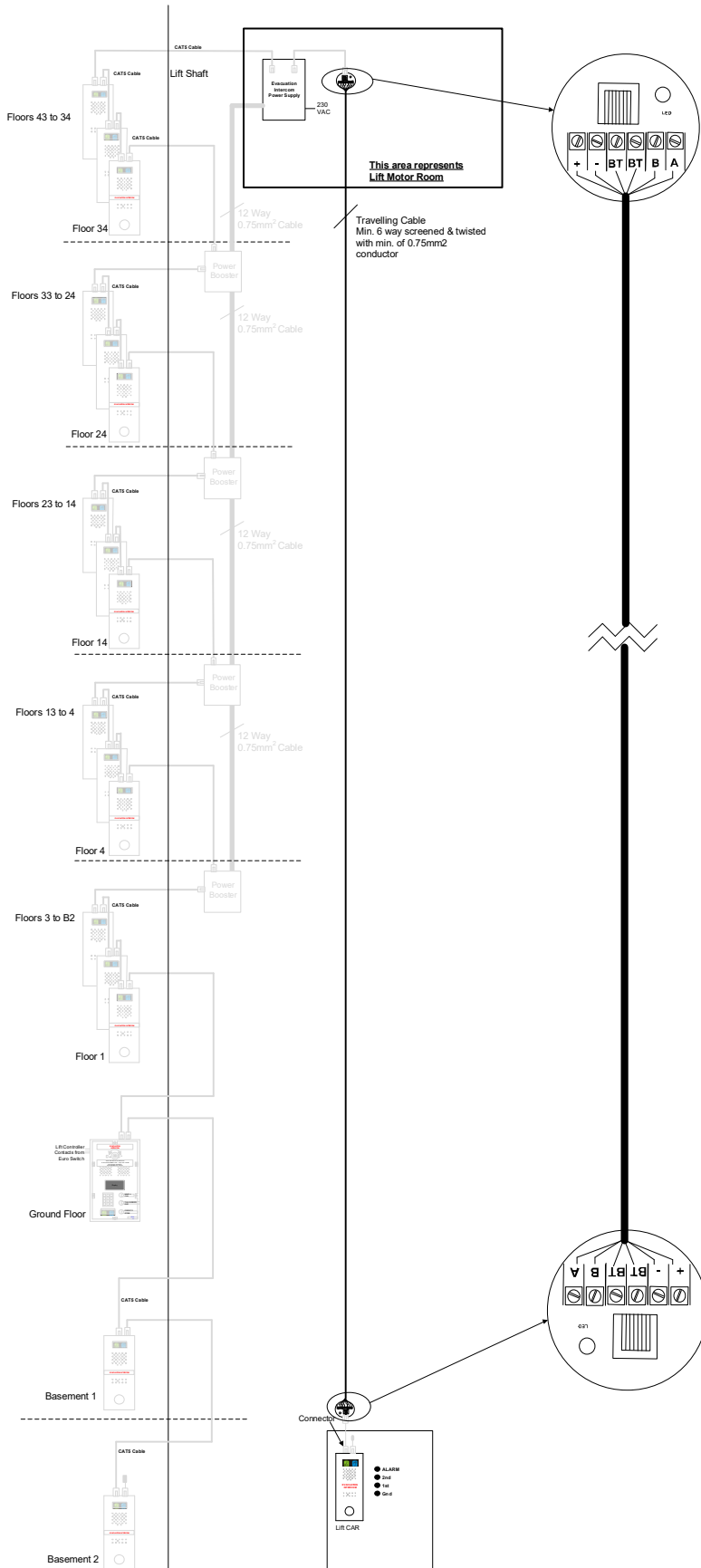
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➤ **Note: Use Windcrest Supplied RJ45 Cables to avoid problems on site. If any other cables are to be used, and if they are not made correctly, it will result in damage of the system and warranty will be violated.**

➤ **Run All RJ45 cables for the outstations, i.e. Landing Stations, Master Panel, Power Supply.**

➤ **Check each RJ45 Cable using RJ45 Cable Tester.**



- Run Travelling Cable to the Top of the Lift Car/Junction Box. Terminate Travelling Cable on RJ45 To Terminal Disks on both ends of the Travelling Cable.
- Confirm correct Travelling Cable Wire is connected on both ends, i.e. "A" to "A", "B" to "B", "BT" to "BT", "BT" to "BT", "+" to "+" and "-" to "-".

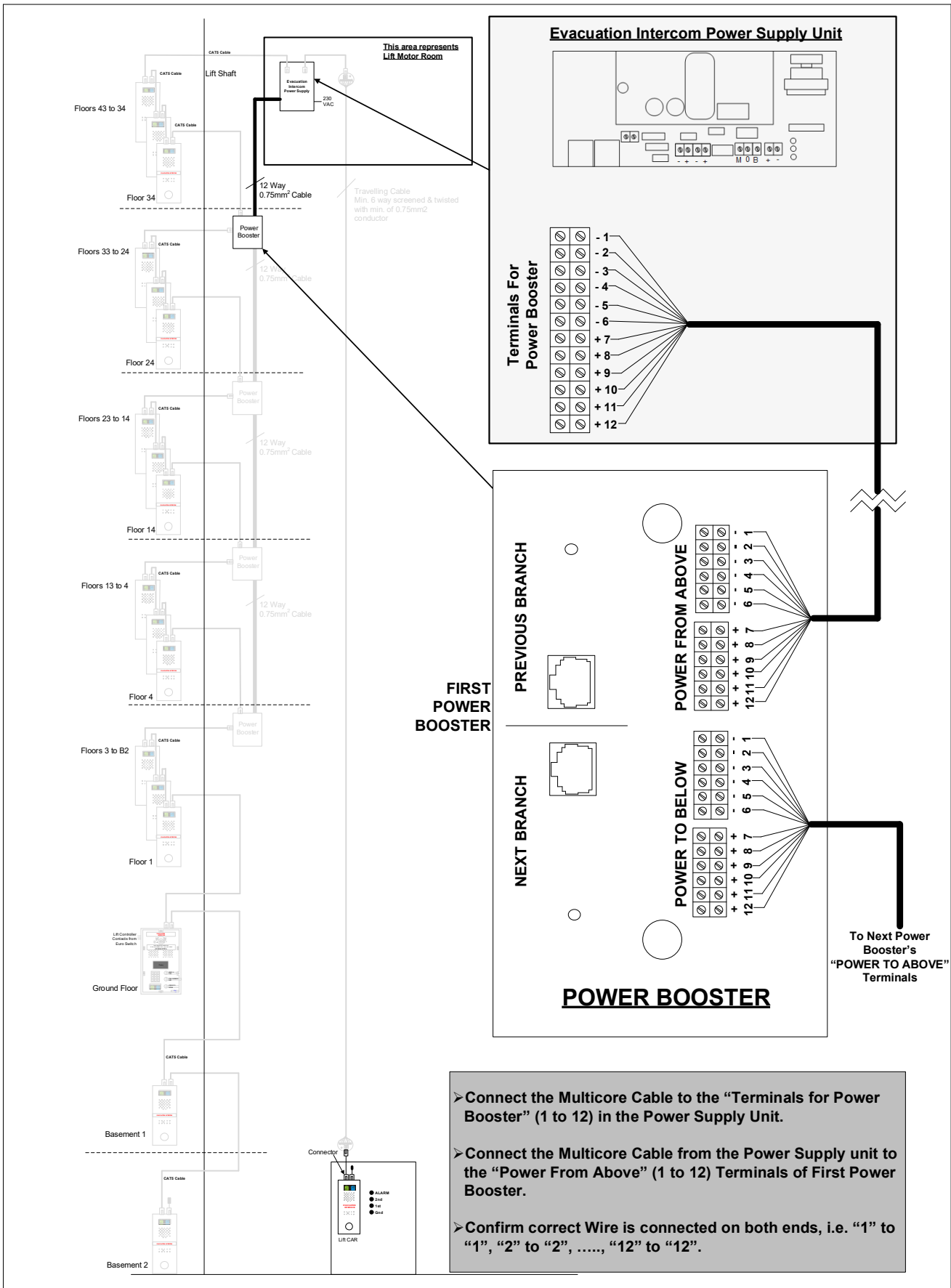
**Installation Step 2**

**Drawing: STEP\_2 01/03/2020**

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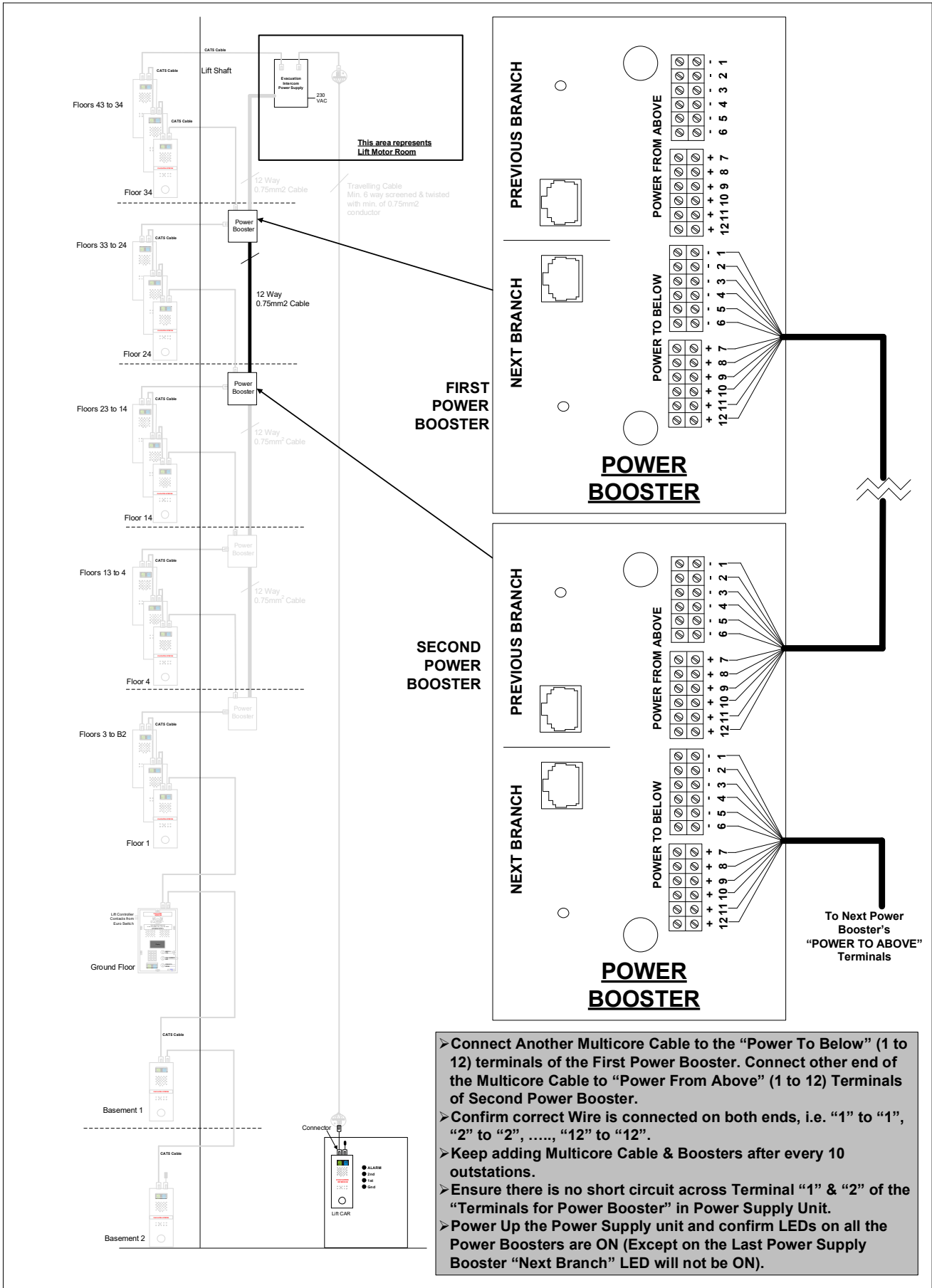
**Installation Step 3**

**Drawing: STEP\_3 01/03/2023**

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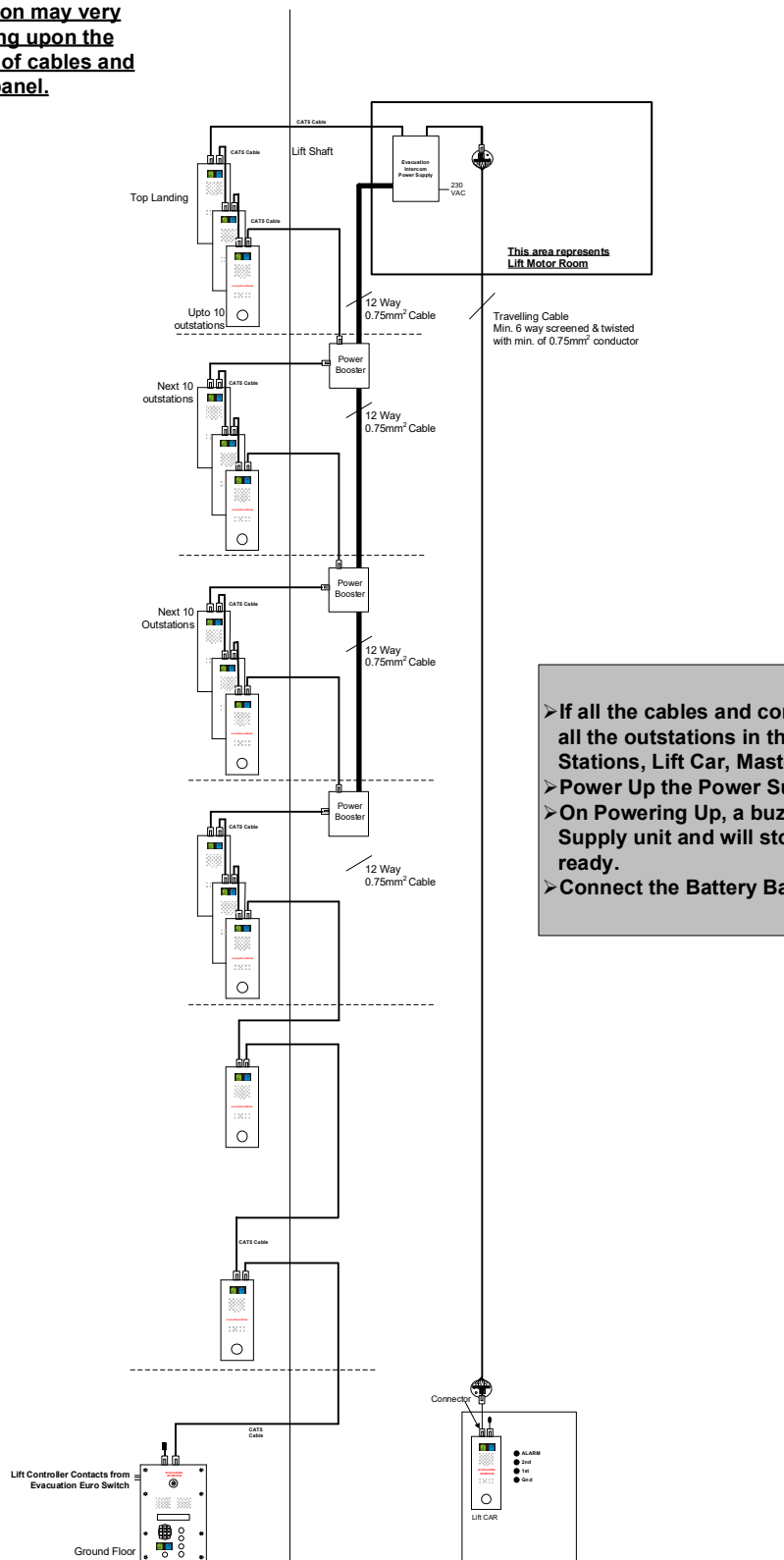
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**Installation Step 4**

**Drawing: STEP\_4 01/03/2023**

**Note:- This is a generic system drawing and the installation may vary depending upon the position of cables and master panel.**



- If all the cables and connections are verified, connect all the outstations in the system. i.e. Landing Stations, Lift Car, Master Panel.
- Power Up the Power Supply by connecting Mains.
- On Powering Up, a buzzer will sound in the Power Supply unit and will stop beeping after the system is ready.
- Connect the Battery Back Up.

Example of Stand-alone Serial Evacuation Intercom  
(A Power Booster is required after 10 outstations)

Drawing: Spcl\_Ser\_Evac\_Keypad 30/07/2021

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## Evacuation Functions

### Lift Controller Spare Contacts:-

Blue – Common / Green - Normally Open/ Yellow- Normally Closed  
Above contacts are rated at 40V Max @ 500mA.

### Operation:-

**Windcrest  
EVAC/FF SYSTEM OFF**

When The Evacuation & Fire Fighting Switches are switched OFF.

**EVACUATION SYSTEM ON  
SCANNING SPEAKERS....**

When The Evacuation System is Turned ON  
Both the Pictograms will flash alternatively for 5 seconds and then remain Solid ON.  
The system checks all the landing/car outstations during this period. All the Push Buttons on Landing Speakers & Lift Car will start flash slowly to indicate they are active.  
If any faulty units have been found, it will show this screen. Press "\*" Key on the Keypad and follow the instructions. Press "Make A Call/Clear Entry" Button any time to skip checking units or whilst checking. If no button is pressed for 15 seconds, the next screen will appear.

**FAULTY UNITS: xxx  
PRESS \* TO CHECK**

**Windcrest  
EVACUATION SYSTEM ON**

The System is now ready for operation. "Listen" Pictogram will be ON and "Speak" Pictogram will go off. (Idle Screen)

**CALL WAITING  
PRESS \* TO CHECK**

If any of the Landing Push button/Lift Car Push is pressed, the local push button at the landing/lift car will start flashing quickly and once the call is registered on to the panel, this screen will be shown together with buzzing sound. Pressing \* will show the following Screen.

**XXX/XXX: LANDING X  
\*-UP/ #-DOWN /ANSWER**

The system will show the call waiting list. Use \* (Up) & # (Down) to scroll and press "CALL/ANSWER" button on the Panel to answer any particular call. Press "End/Clear Entry" button to get out of this menu. If no button is pressed for 15 seconds, the system will go back to the above screen.

**LANDING XX ON!  
CALLS WAITING \***

Pressing "CALL/ANSWER" button will answer the call and the screen will show the selected channel ON and if there are more calls still waiting, the second line of the screen will show "CALL WAITING \*". If no more calls are waiting, the second line of display will be blank.

At the Landing, the push button will become Solid ON and the Pictograms will show the direction of speech.

Press to Speak button on the Master Panel will determine the Speech Direction.  
Press "END/CLEAR ENTRY" button on Master Panel to switch off the Channel.

### Making A Call

**Windcrest  
EVACUATION SYSTEM ON**

When the system is Idle. The Evacuation manager can make a call to any of the Landing Stations/Car by pressing "INITIATE A CALL"/ "MAKE A CALL" Button. If the button is pressed, the system will show following screen.

**ENT. LEVEL & CALL  
00-XX (00 - CAR)**

When this screen is shown, key in the two digit level no. and screen will show relevant outstation. If it is correct outstation, press "CALL/ANSWER" button to Call. If not, use \* (Up) and # (Down) to scroll or to start again, press "End/Clear Entry" button. To call Lift Car, either use the dedicated button "CALL LIFT CAR" on the panel.

### Calling Lift Car/Answering Call From Lift Car

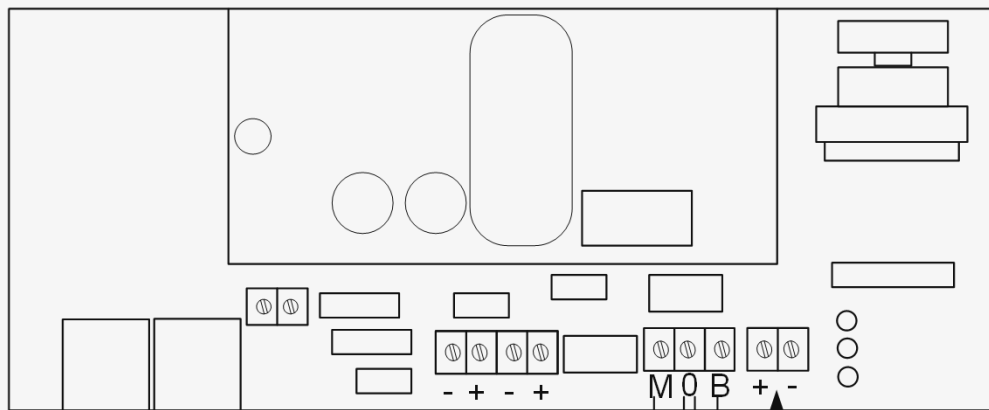
**CAR ON!  
LAST: Landing XX**

If Call is made to the Lift Car or call from Lift Car is answered, the second line of the screen will show the last spoken outstation.

Switching OFF the Evacuation Switch will turn OFF any ongoing communication. All the push buttons/pictograms on the Landing /Lift Car will Switch OFF. Pictograms on the Master Panel will also Switch OFF.



## Evacuation Intercom Power Supply Unit



Mains Detection Relay Output  
 ("O" - Common, "M" - Normally Open)  
 Mains Failure = Closed  
 Mains Good = Open

Low Battery Relay Output  
 ("O" - Common, "B" - Normally Open)  
 Low Battery = Closed  
 Battery Good = Open

**NB: The buzzer is connected inside the PSU for Low Battery warning as standard.**

Low Battery & Mains  
 Detection Output

Drawing: Mains & Batt

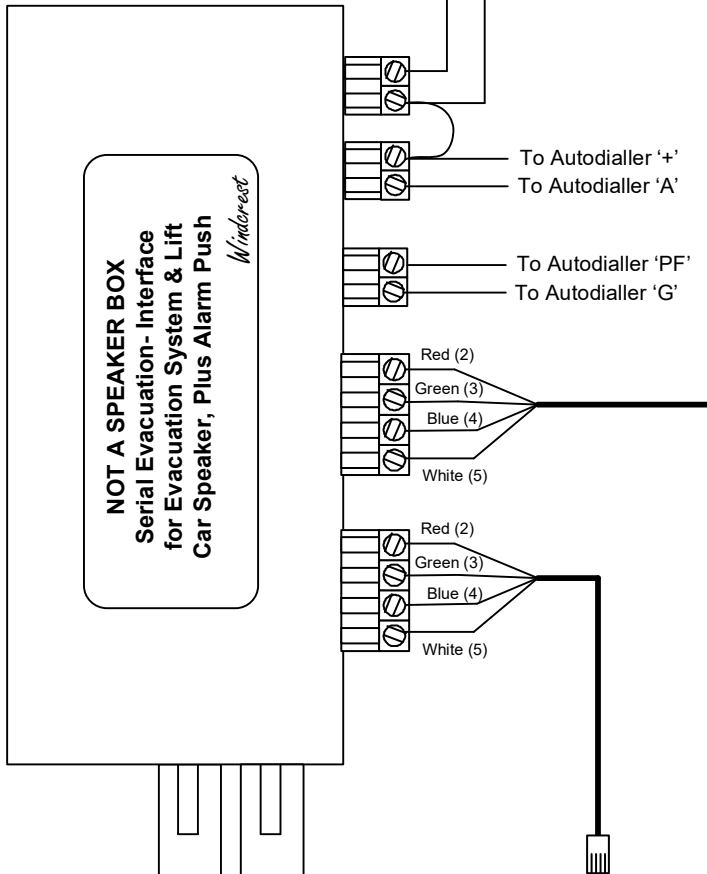
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**Note:- If the Autodialler is already wired, please refer to the Page 8.**

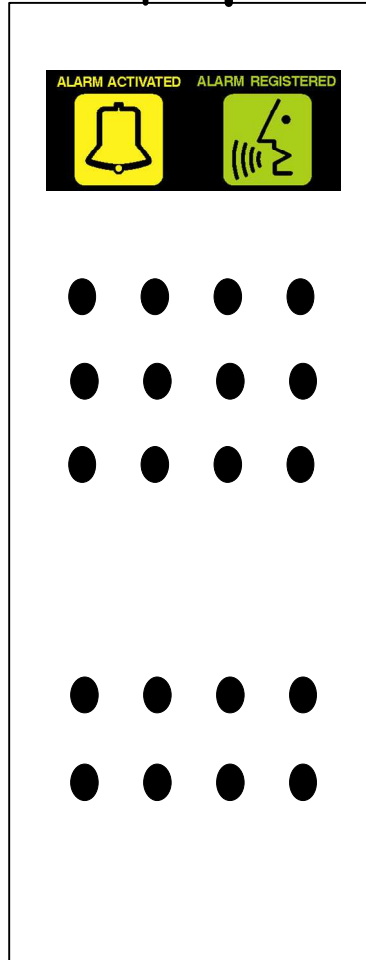
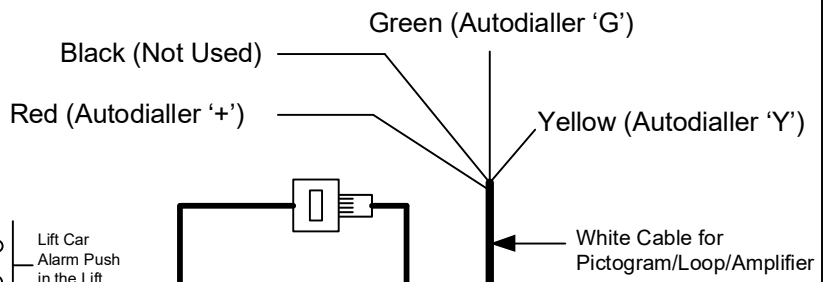
**Serial Data Controller**



Bus terminator

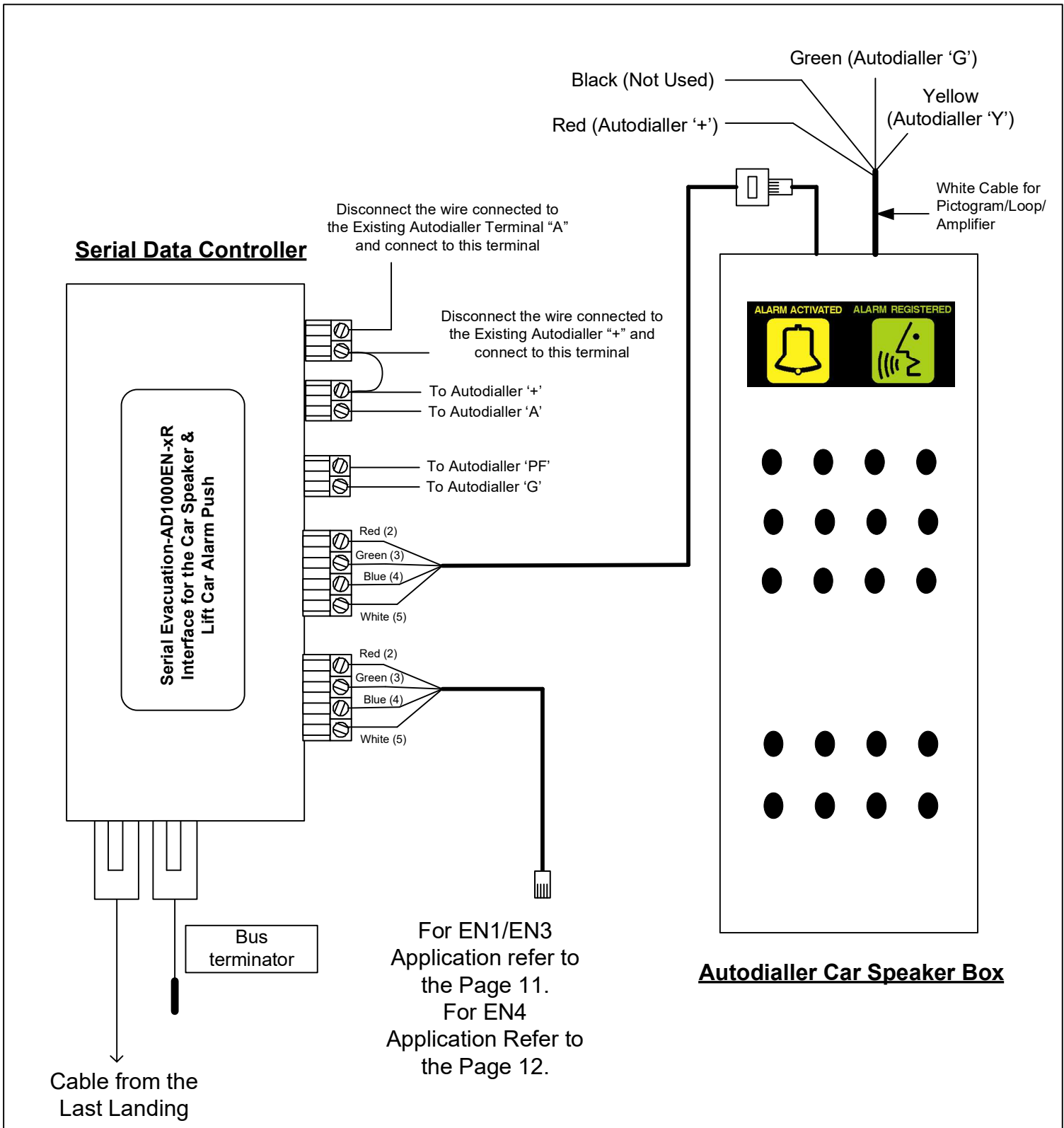
Cable from the Last Landing

For EN1/EN3 Application refer to the Page 11.  
For EN4 Application Refer to the Page 12.



**Autodialler Car Speaker Box**

**NB: Ignore this drawing for the StandAlone Evacuation Installation. This drawing is applicable ONLY for AD1000 Range of Autodiallers which is connected to a Serial Evacuation System.**



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Serial Car Speaker  
Interface with Existing  
Windcrest Autodialler

Drawing: SER CAR + Autodialler  
03/09/10

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**IMPORTANT:**

Backup Battery MUST be connected the correct way around. If not, the PCB tracked Fuse will blow.

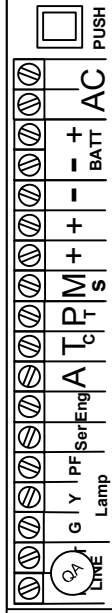
**NB:**  
If the main Unit is mounted in the Motor/Pump room, 9 way Trailing cable will be required.

If the Main unit is mounted on the Lift car, 2 way trailing cable will be required.

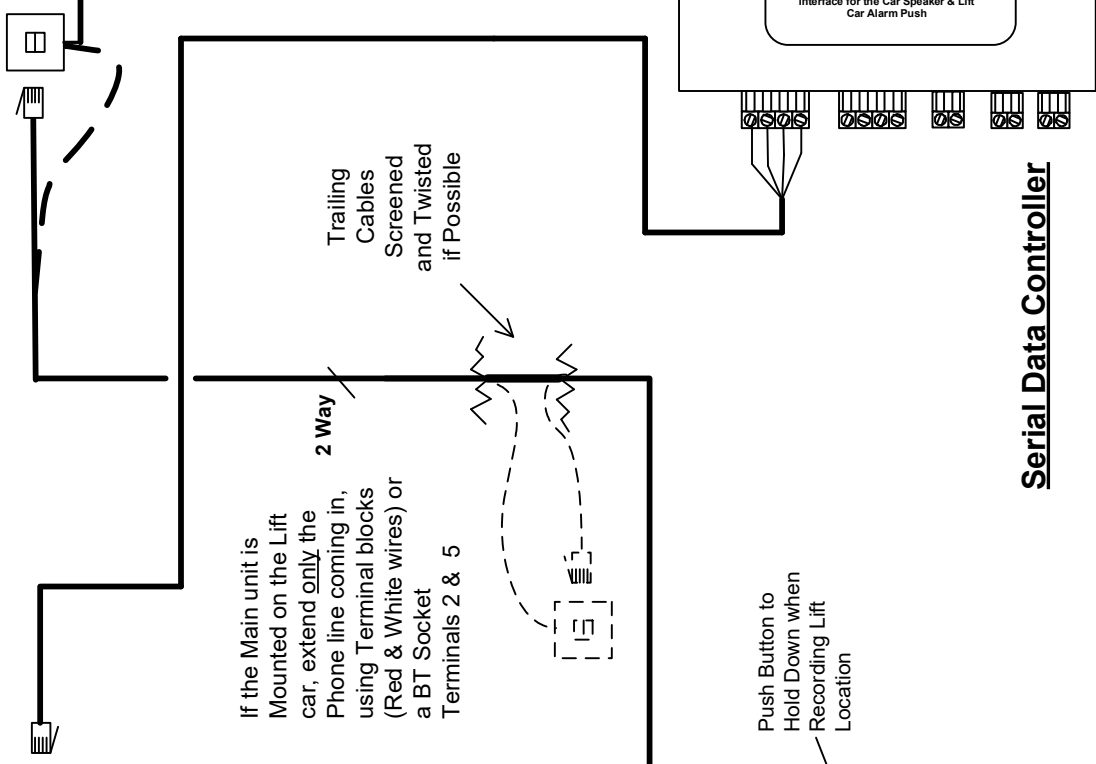
Use the Voltage Free Contacts (Max Load 500 mAmp 24V) to switch ON/OFF the Lamp/LED in the ALARM push.

PF & Y Make when ALARM Activated  
PF & G Make when ALARM Acknowledge  
(By Called Person pressing a Star (\*) on his phone.)

15 way D Socket for the Programmer



Telephone Cable to Exchange or PABX if in an Office Building  
Use Terminals A & B or 2 & 5 ONLY



If the Main unit is Mounted on the Lift car, extend only the Phone line coming in, using Terminal blocks (Red & White wires) or a BT Socket Terminals 2 & 5

2 Way Trailing Cables Screened and Twisted if Possible

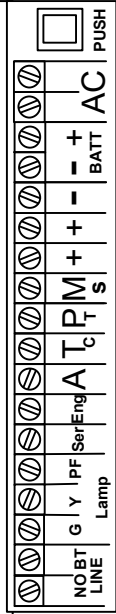
Push Button to Hold Down when Recording Lift Location

**Serial Data Controller**

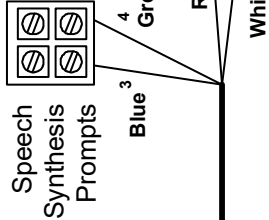
**AD1000 EN 1 & Serial Controller**

Connect the lead with the BT Plug into the phone socket of the Building's phone system. (The phone line Must be on 2 wires analogue system)

**IMPORTANT:**  
Backup Battery MUST be connected the correct way around. If not, the PCB tracked Fuse will blow.

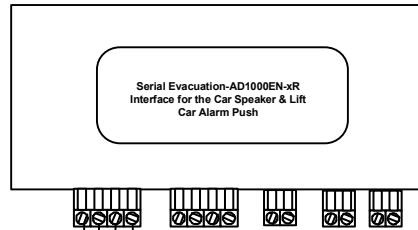
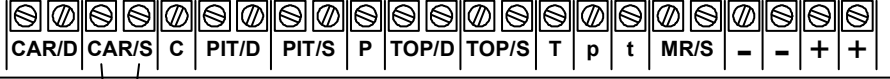


5V ok LED  
"System Ready"  
15 way D Socket for the Programmer

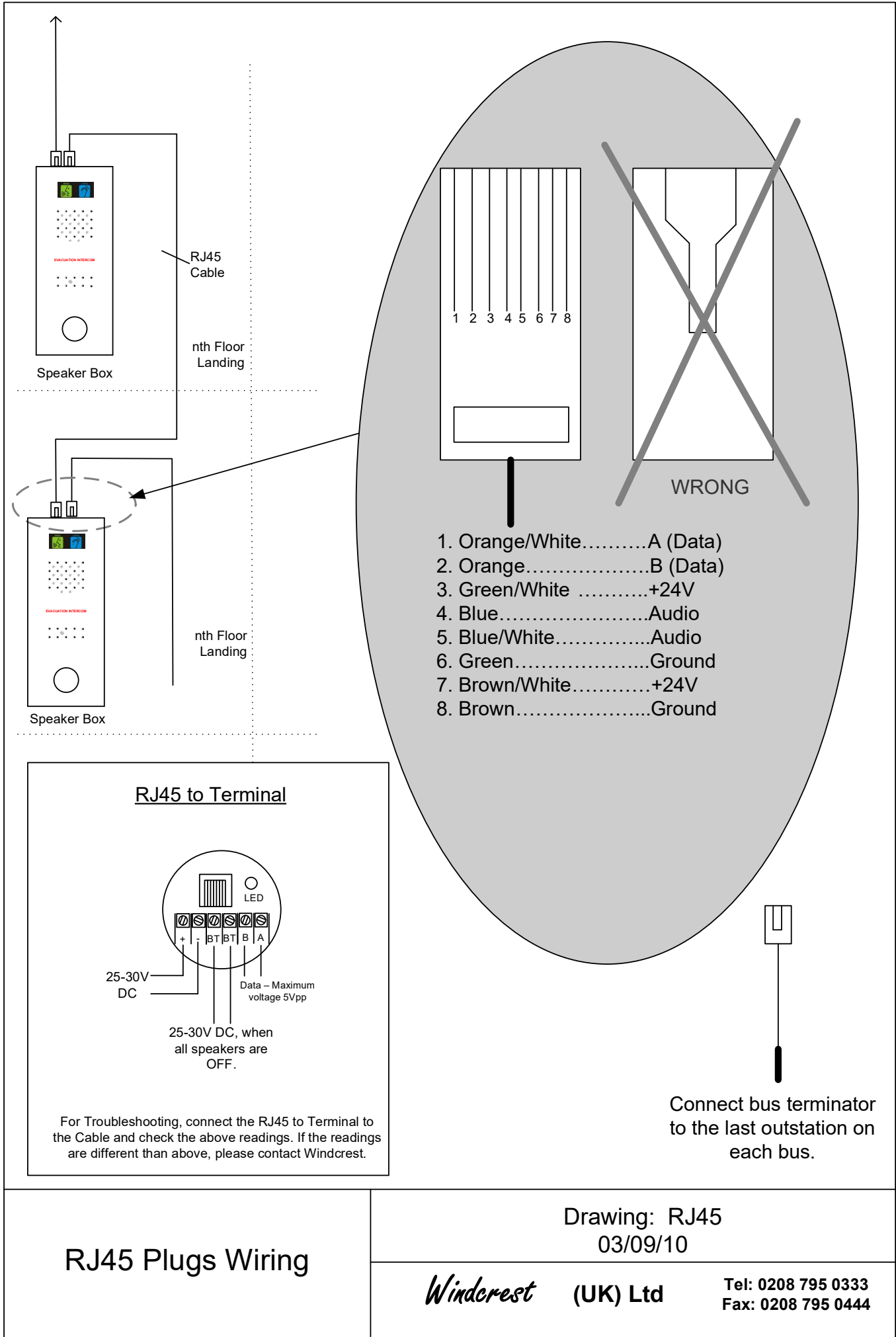


All cable used in the installation should be Screened and Twisted to minimise Electrical Noise

All other unconnected terminals shown, may be pre-wired



**Serial Data Controller**



# RJ45 Plugs Wiring

Drawing: RJ45  
03/09/10

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<b>Outstation</b>	<b>Calling Level No.</b>
Lift Car -----	00
Basement -----	01
Ground Floor -----	02
Landing 1 -----	03
Landing 2 -----	04
Landing 3 -----	05
Landing 4 -----	06
Landing 5 -----	07
Landing 6 -----	08
Landing 7 -----	09
Landing 8 -----	10
Landing 9 -----	11
Landing 10 -----	12
Landing 11 -----	13
Landing 12 -----	14
Landing 13 -----	15
Landing 14 -----	16
Landing 15 -----	17
Landing 16 -----	18
Landing 17 -----	19
Landing 18 -----	20
Landing 19 -----	21
Landing 20 -----	22
Landing 21 -----	23
Landing 22 -----	24
Landing 23 -----	25
Landing 24 -----	26
Landing 25 -----	27
Landing 26 -----	28
Landing 27 -----	29
Landing 28 -----	30
Landing 29 -----	31
Landing 30 -----	32
Landing 31 -----	33
Landing 32 -----	34
Landing 33 -----	35
Landing 34 -----	36