

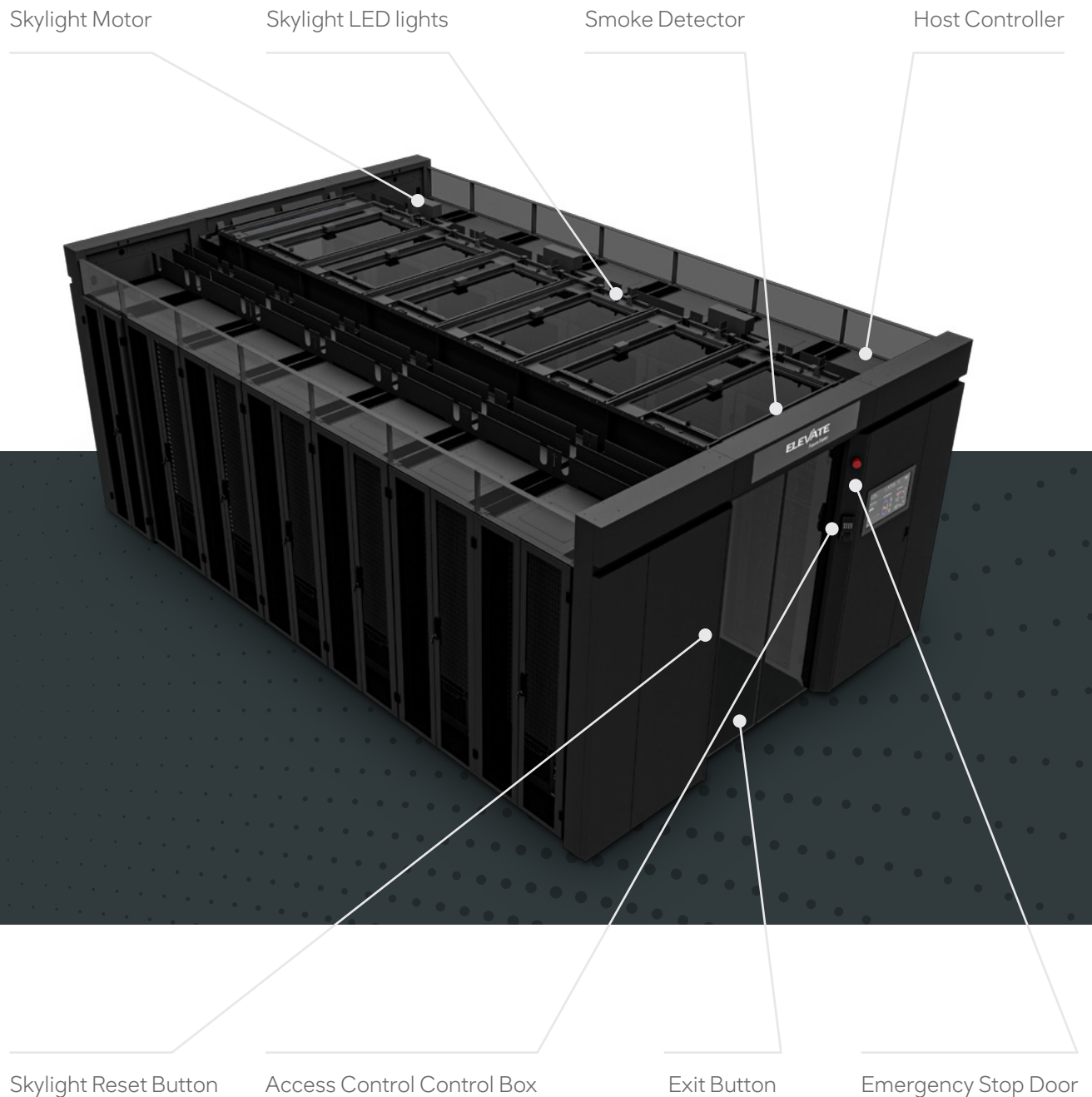
INSTALLATION GUIDE

Elevate Cold Aisle Containment Cable Assembly Guide

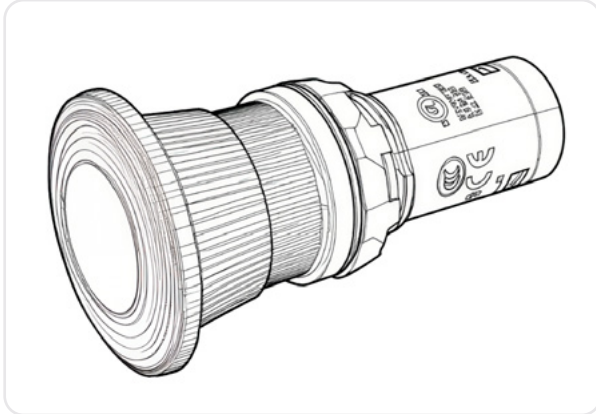
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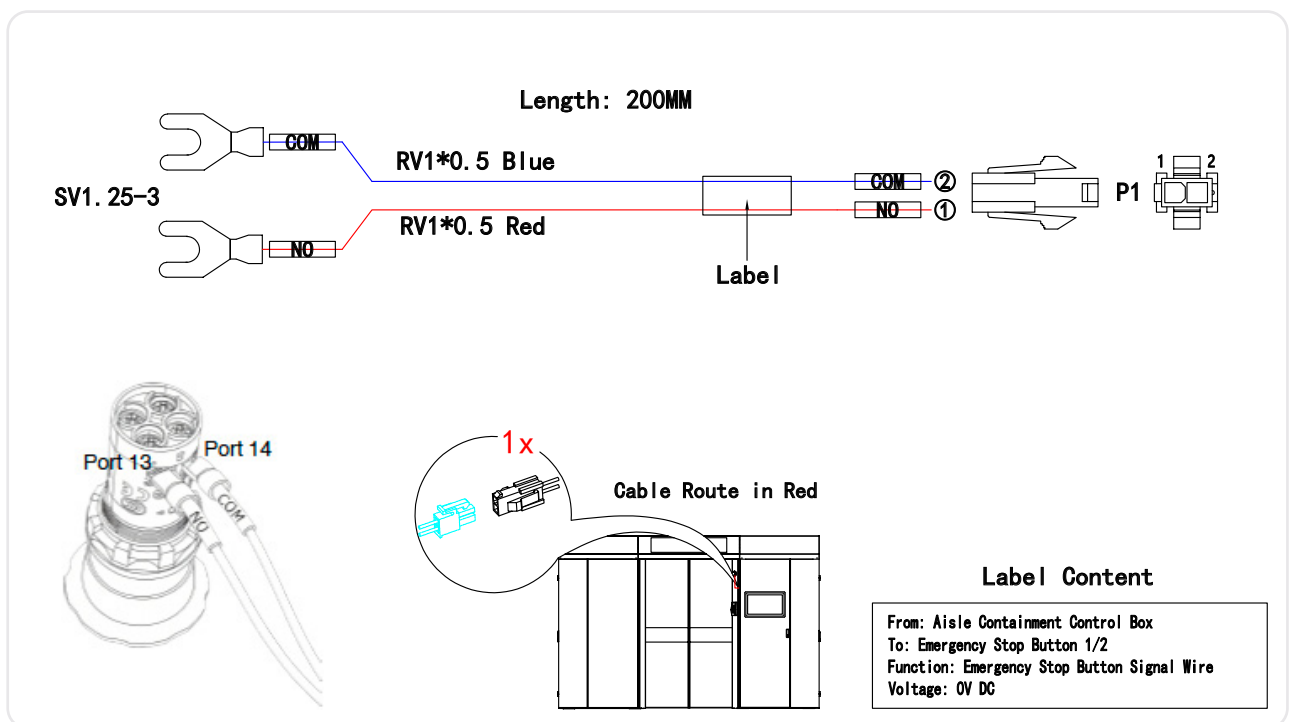
Cold Aisle Connection Points



Emergency Stop Button Cable Assembly



1.1 E-Stop Button 1/2 Signal Lead

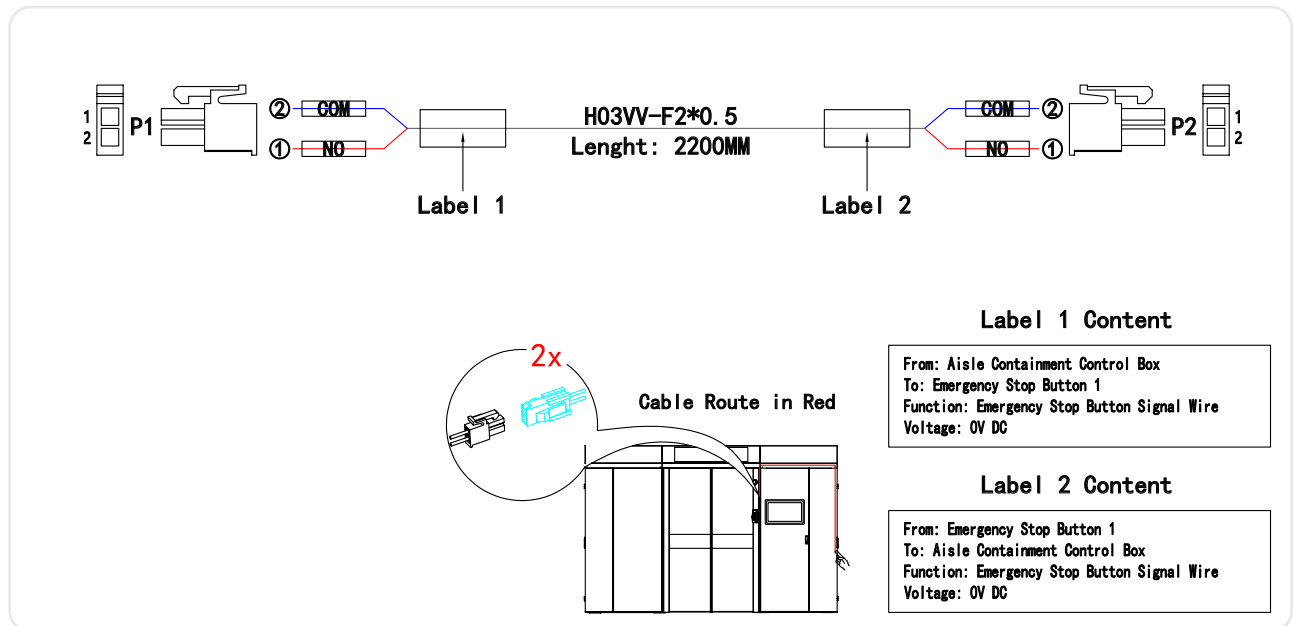


The E-stop Button is installed on the sliding door panel:

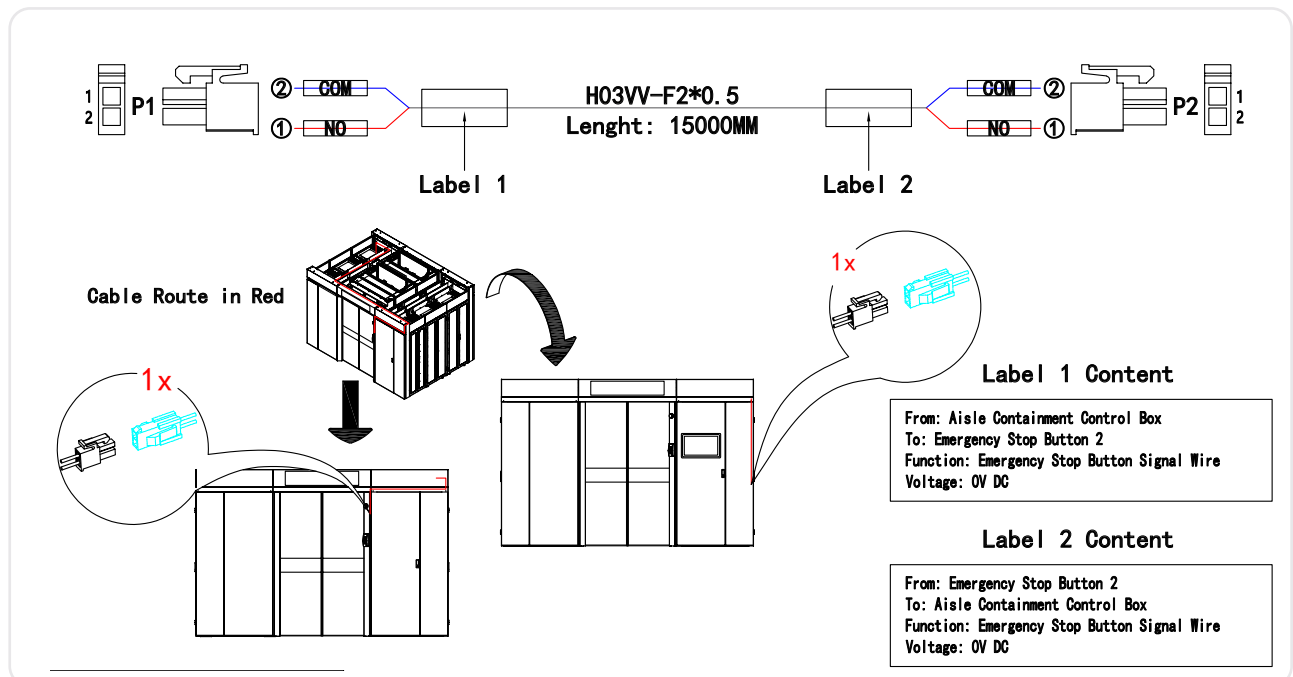
✓ COM Pin connected to Button Port 14.

✓ NO Pin connected to Button Port 13.

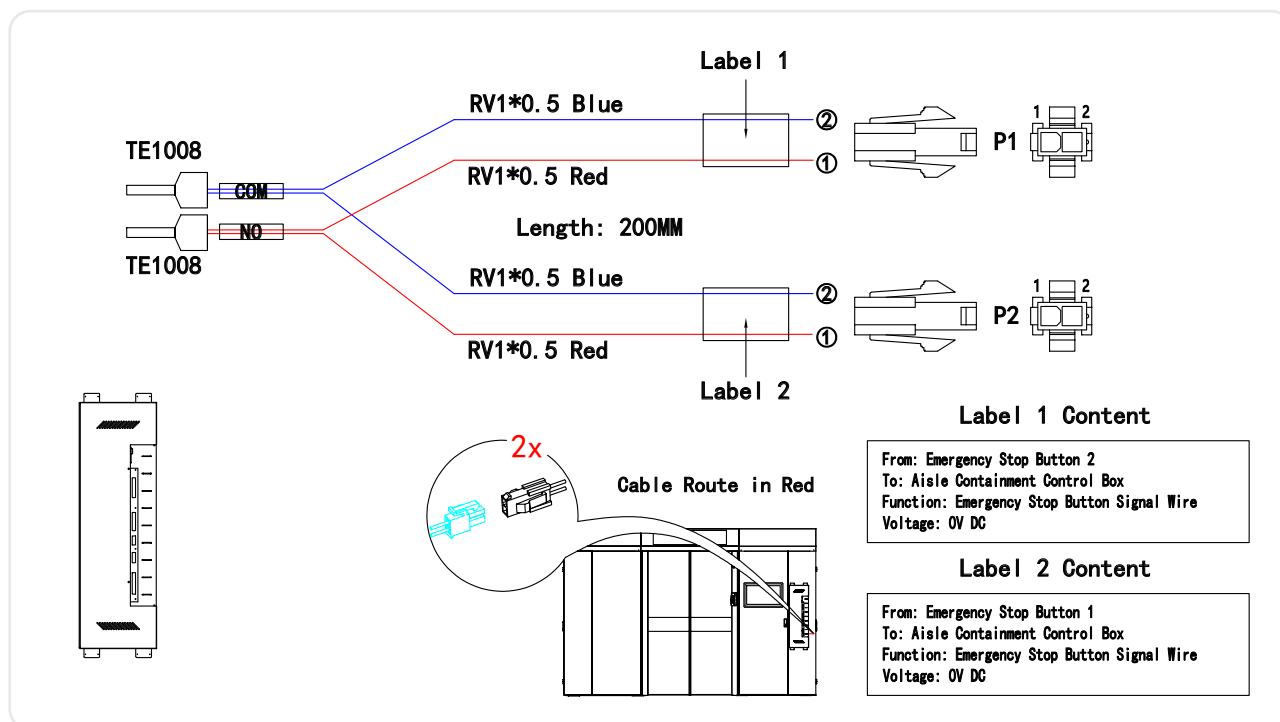
1.2 Connection between E-Stop Button 1 and Aisle Containment Control Box



1.3 Connection between E-Stop Button 2 and Aisle Containment Control Box



1.4 Aisle Containment Control Box Signal Lead



The cable is connected to the Aisle Control Box:

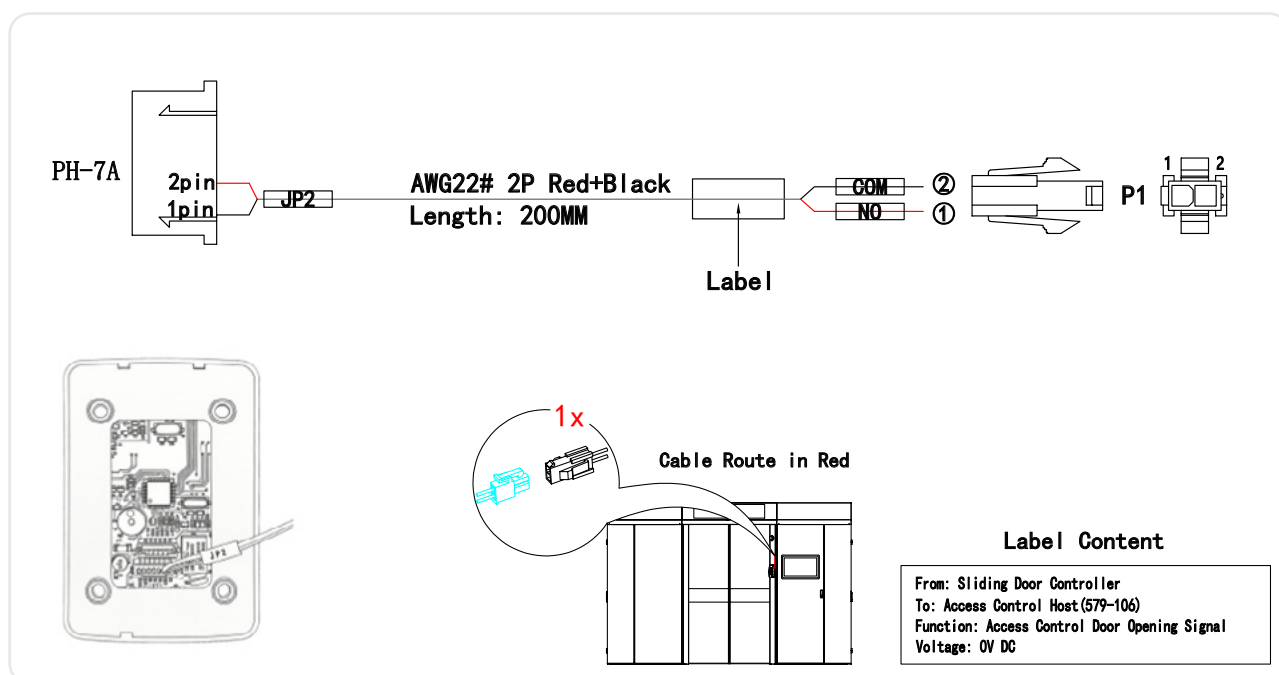
✓ COM connects to Port 52.

✓ NO connects to Port 53.

2.0 Access Control Host (579-106) Cable Assembly

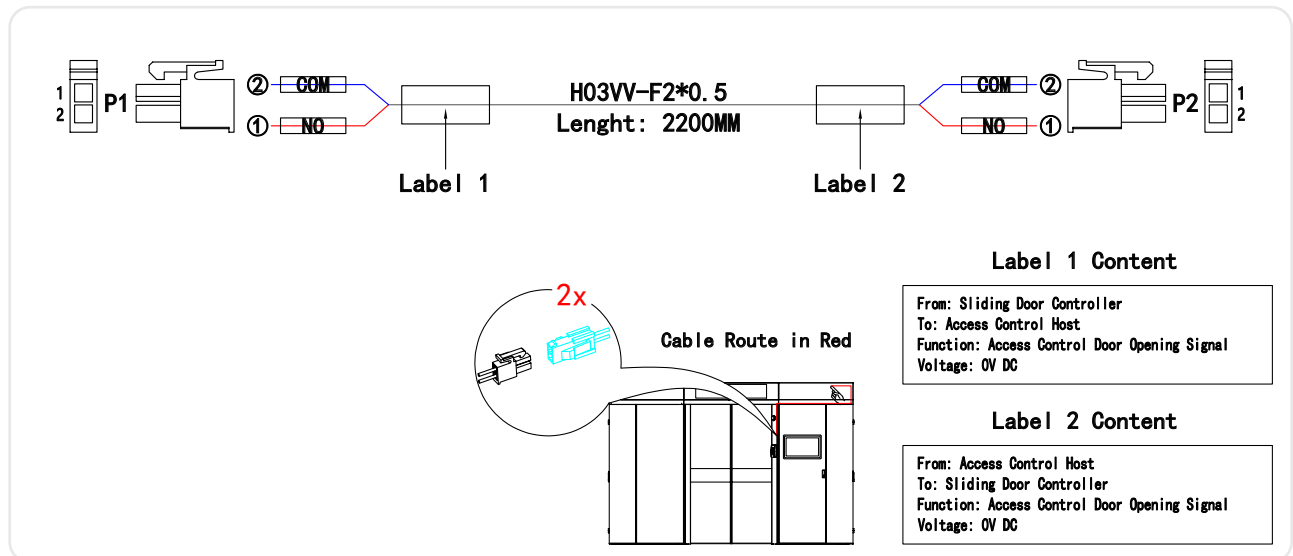


2.1 Access Control Host (579-106) Signal Lead

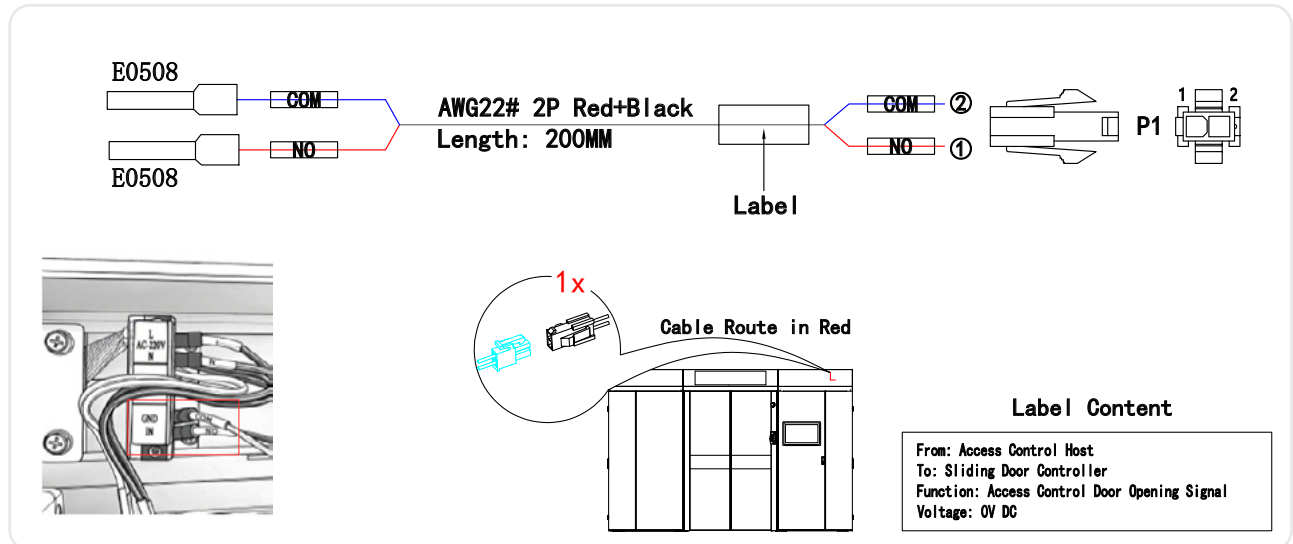


Access Control (579-106) rear panel Signal Line JP2.

2.2 Signal connection cable between Access Control Host and Sliding Door Controller



2.3 Sliding Door Controller Signal Lead

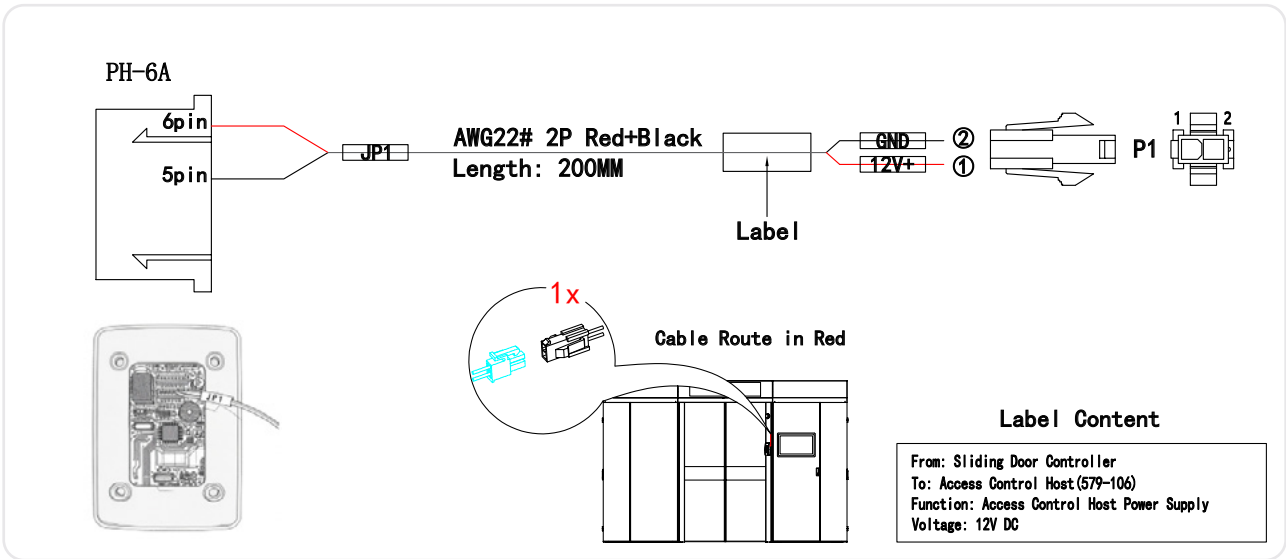


The cable is connected to the Sliding Door Power Controller:

✓ COM connects to GND.

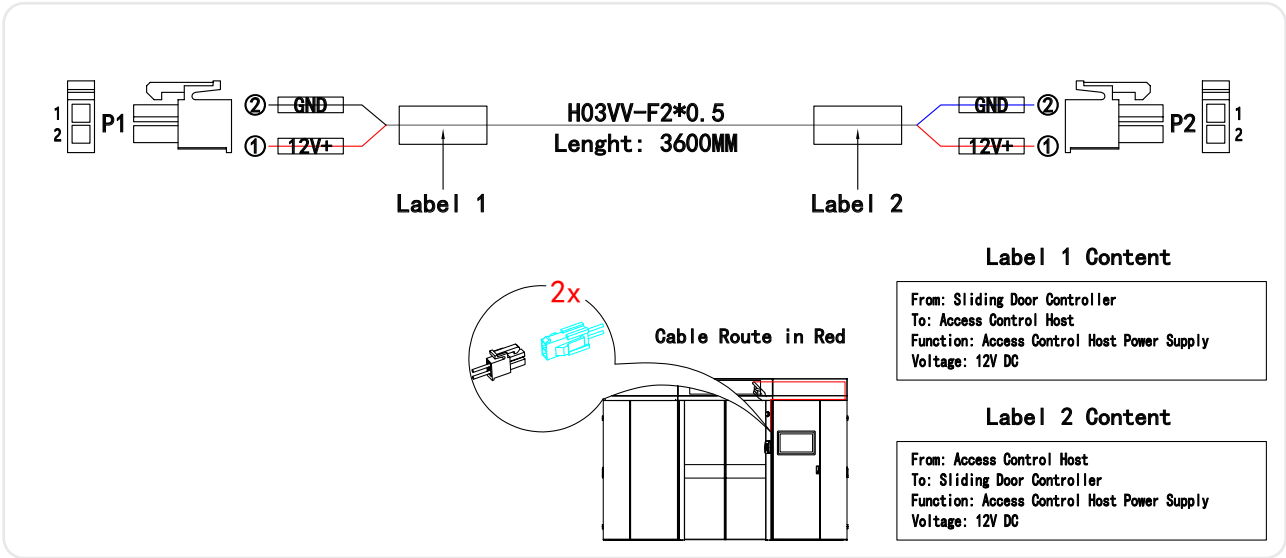
✓ NO connects to IN.

2.4 Access Control Host (579-106) Power Lead

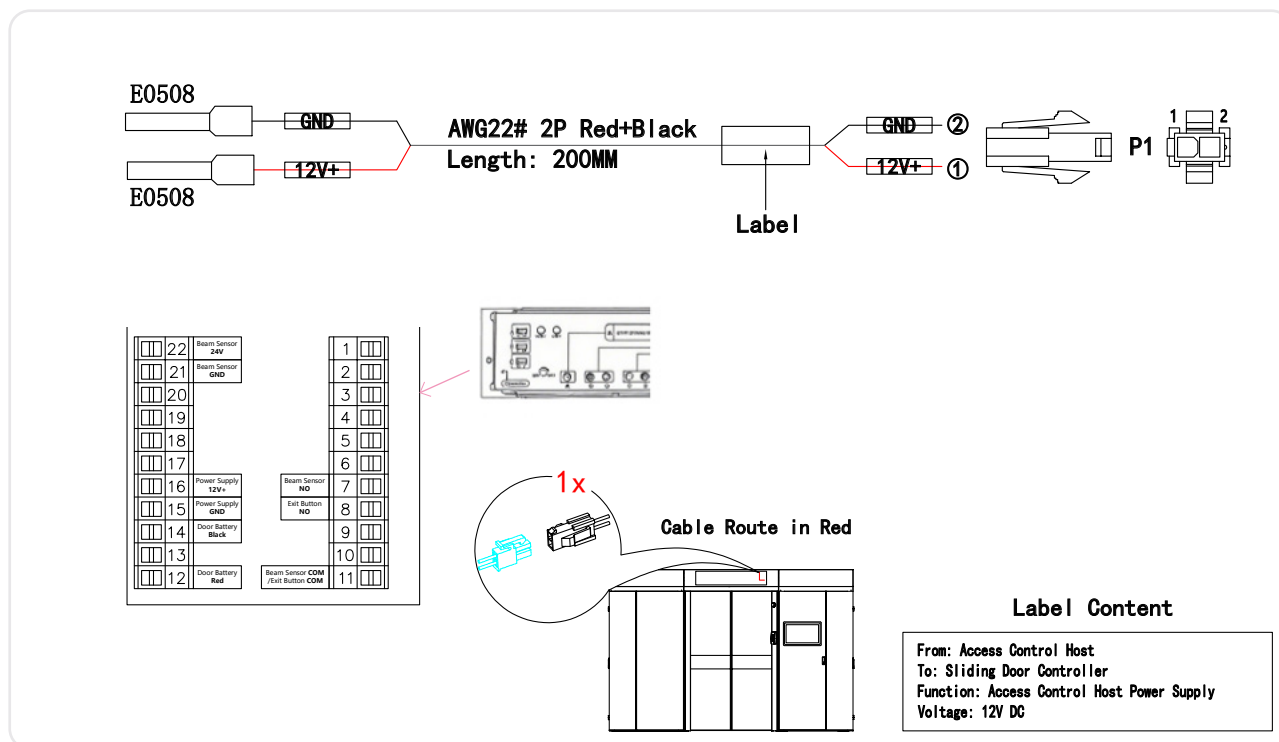


Access control (579-106) rear panel Power Line JP1.

2.5 Power connection cable between Access Control Host and Sliding Door Controller



2.6 Sliding Door Controller Power Lead



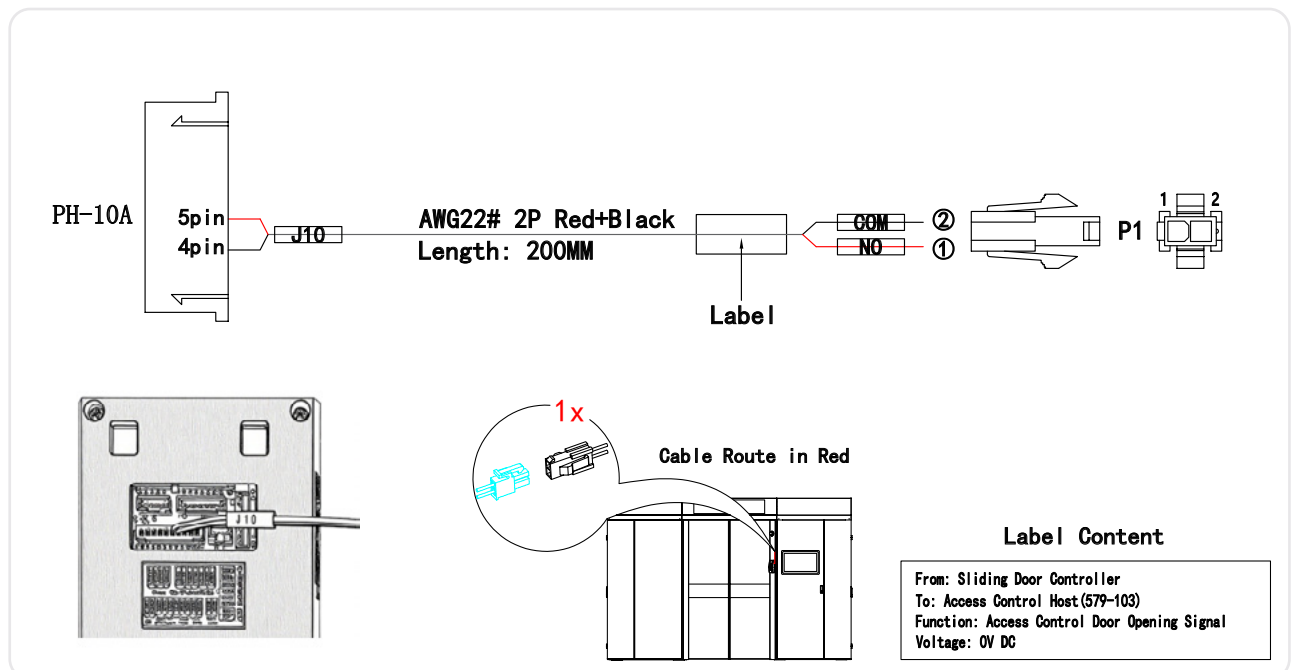
The cable is connected to the Sliding Door Controller (Left side terminal block):

- ✓ GND connects to Port 15 (GND).
- ✓ 12V+ connects to Port 16 (12V+).

3.0 Access Control Host (579-103) Cable Assembly

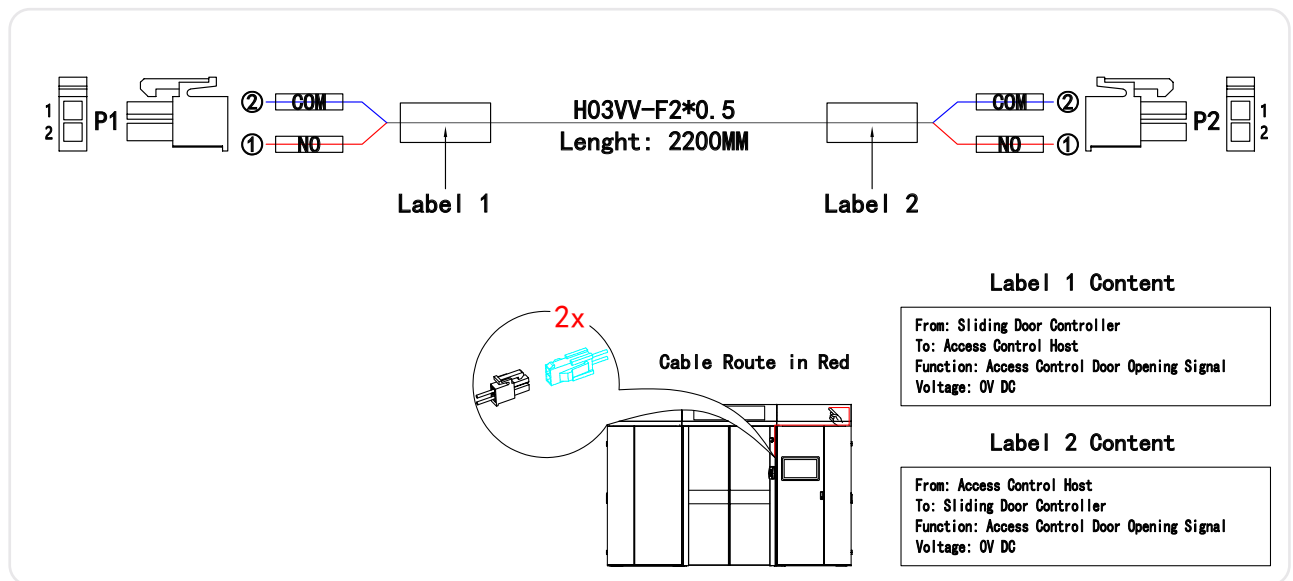


3.1 Access Control Host (579-103) Signal Lead

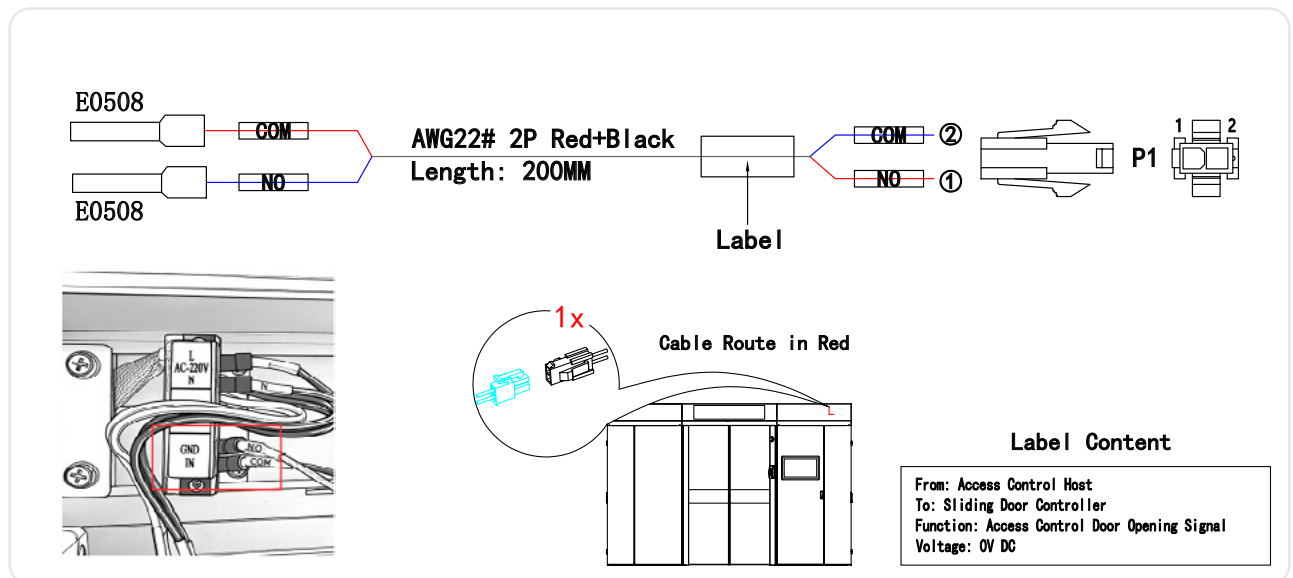


Access control (579-103) rear panel Signal Line J10.

3.2 Signal connection cable between Access Control Host and Sliding Door Controller



3.3 Sliding Door Controller Signal Lead

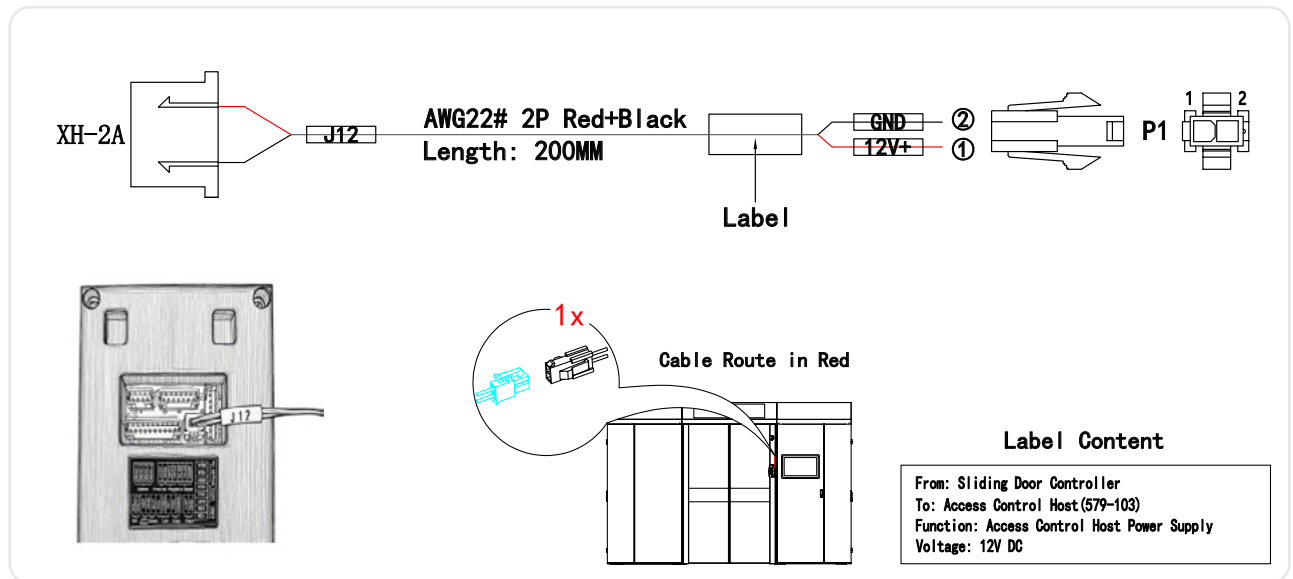


The cable is connected to the Sliding Door Power Controller:

✓ COM connects to IN.

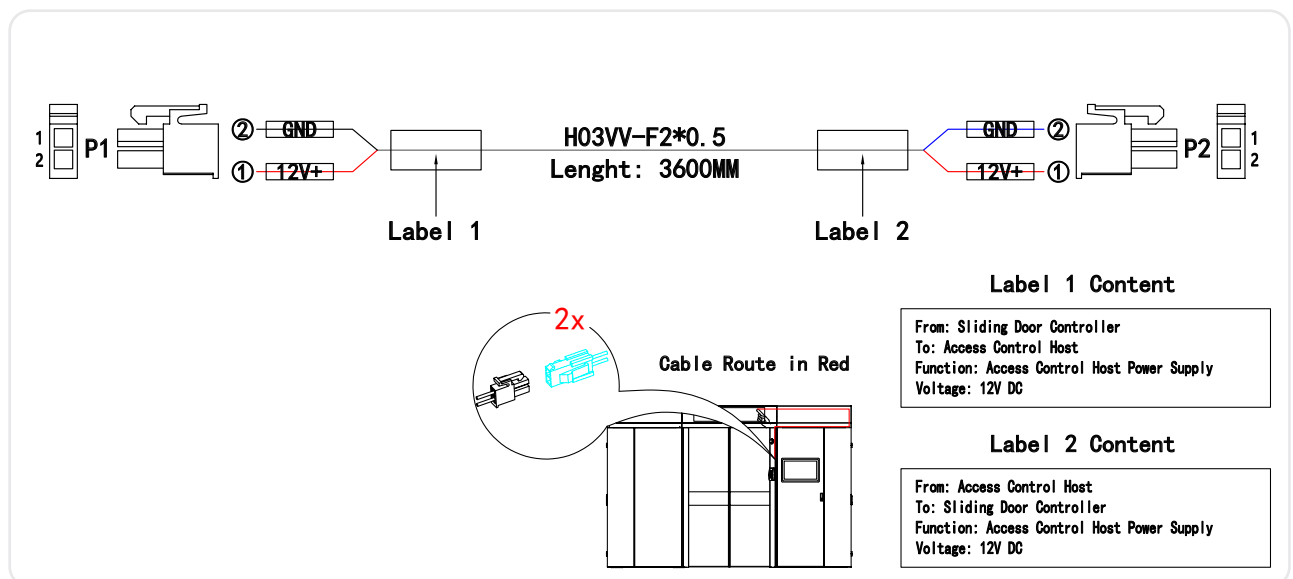
✓ NO connects to GND

3.4 Access Control Host (579-103) Power Lead

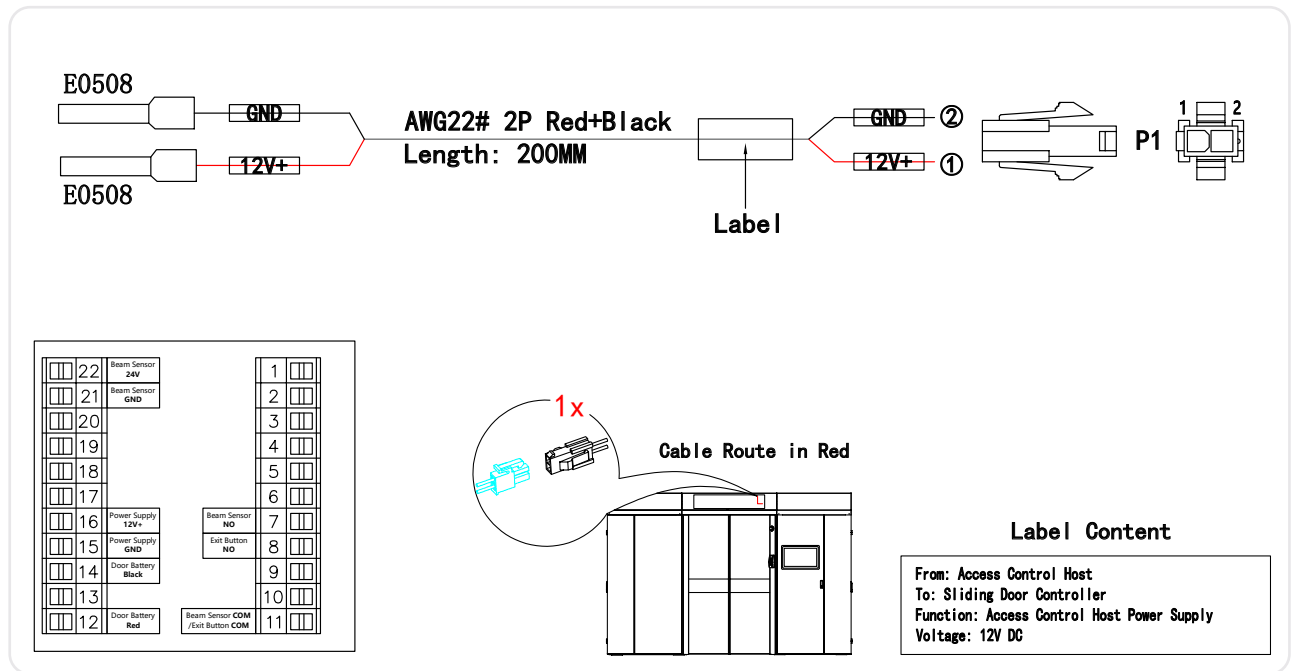


Access control (579-103) rear panel Power Line J12.

3.5 Power connection cable between Access Control Host and Sliding Door Controller



3.6 Sliding Door Controller Power Lead



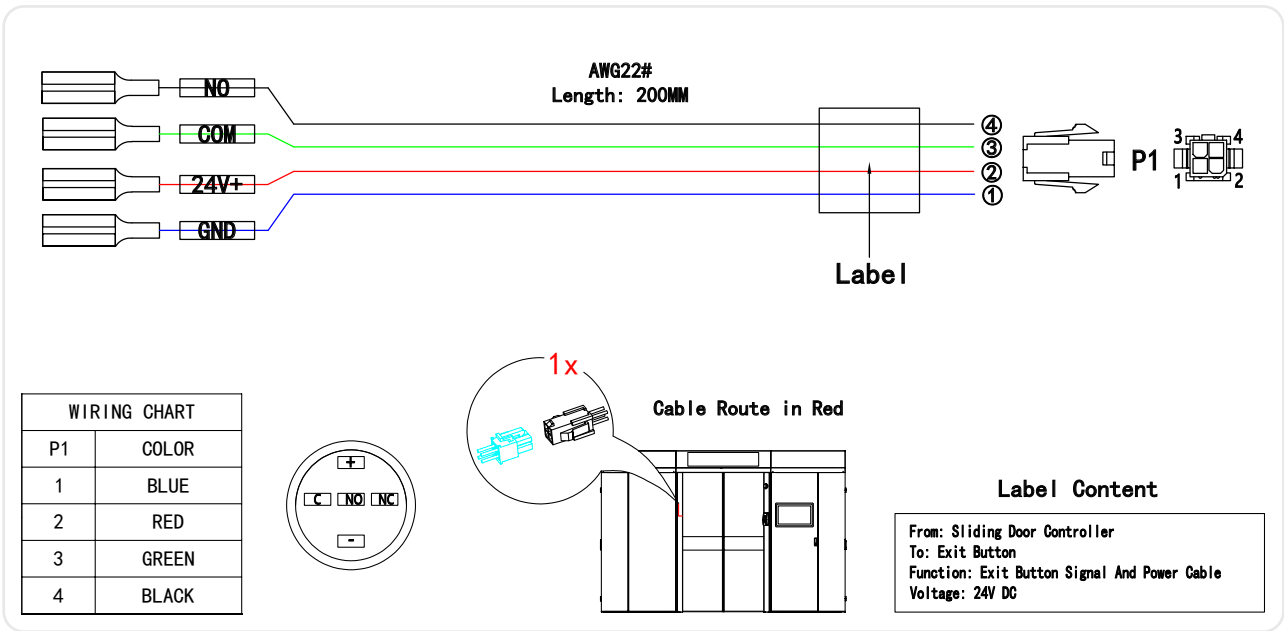
The cable is connected to the Sliding Door Controller (Left side terminal block):

- ✓ GND connects to Port 15(GND).
- ✓ 12V+ connects to Port 16(12V+).

4.0 Exit Button Cable Assembly



4.1 Exit Button Signal and Power Lead



Exit Button terminal wiring configuration:

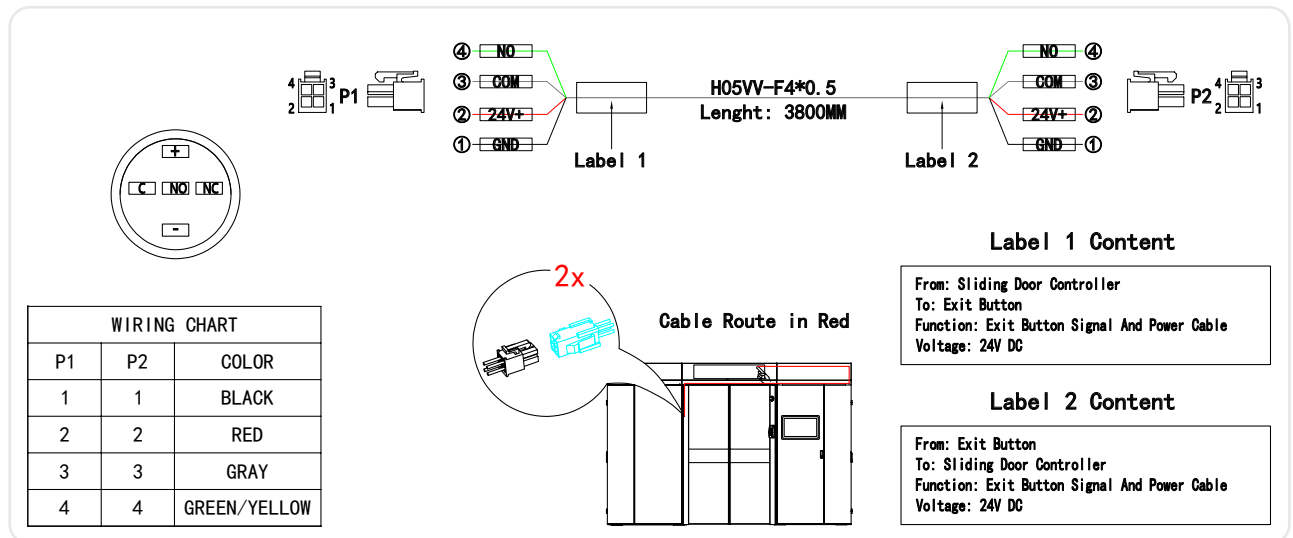
✓ GND -(Negative)

✓ 24V +(Positive)

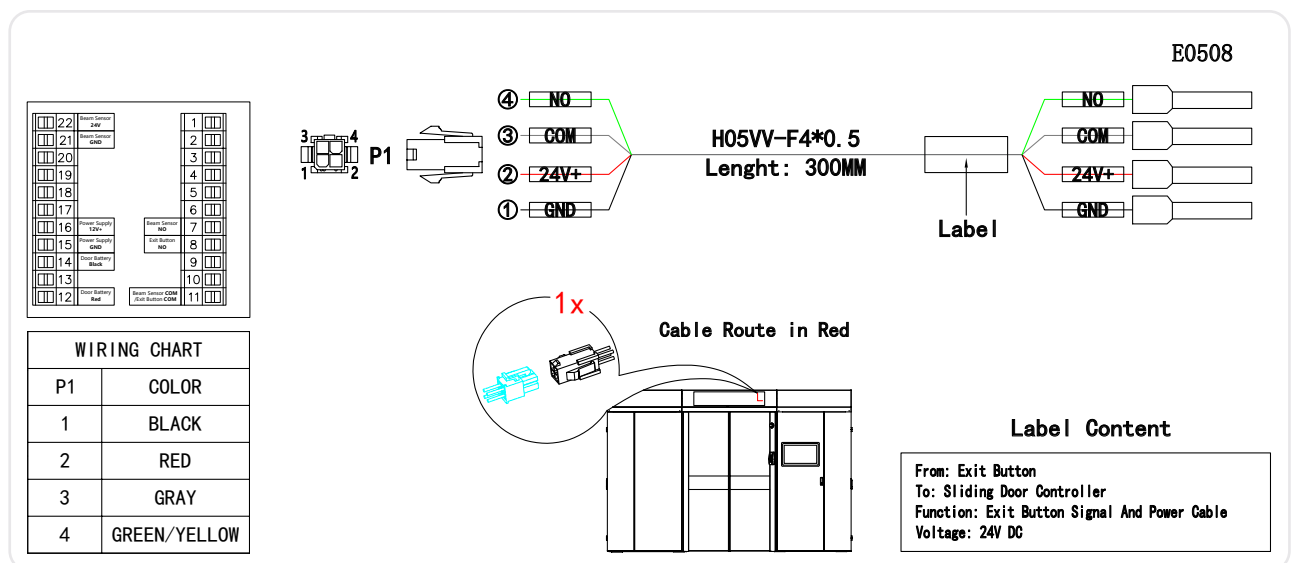
✓ COM C

✓ NO NO

4.2 Connection cable between Exit Button and Sliding Door Controller



4.3 Sliding Door Controller Signal and Power Lead



The cable is connected to the Sliding Door Controller (left side terminal block):

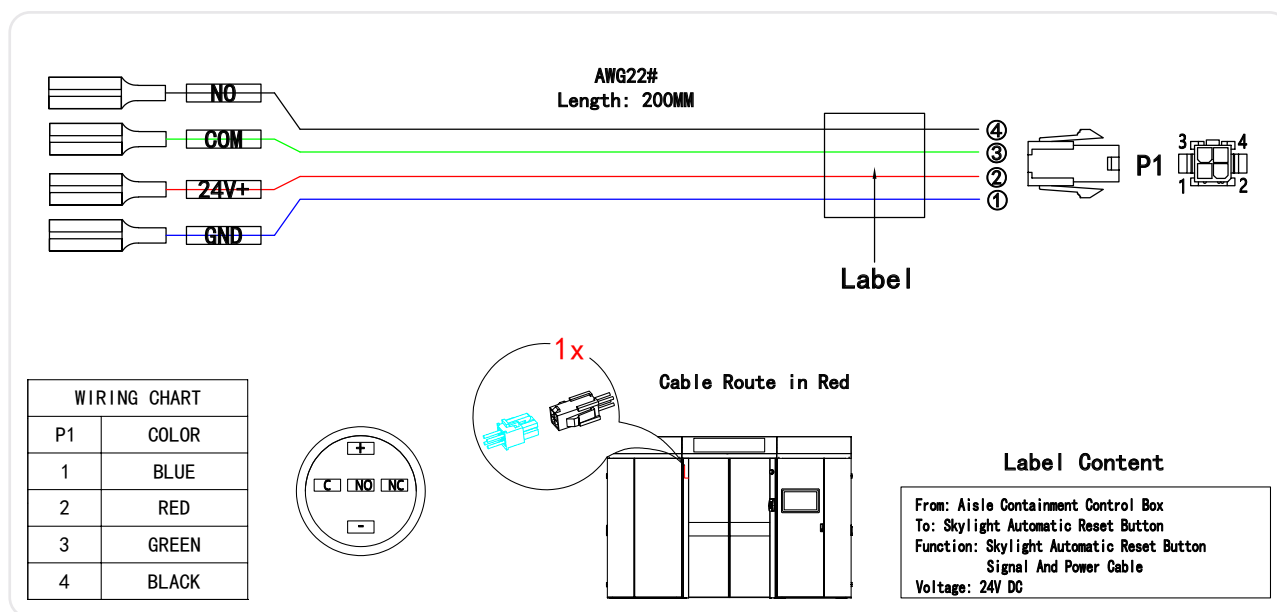
- ✓ GND connects to Port 21 (GND)
- ✓ 24V+ connects to Port 22 (24V+)

- ✓ COM connects to Port 11 (COM)
- ✓ NO connects to Port 8 (NO)

5.0 Skylight Auto-Reset Button Cable Assembly



5.1 Skylight Automatic Reset Button Signal and Power Lead



Reset Button terminal wiring configuration:

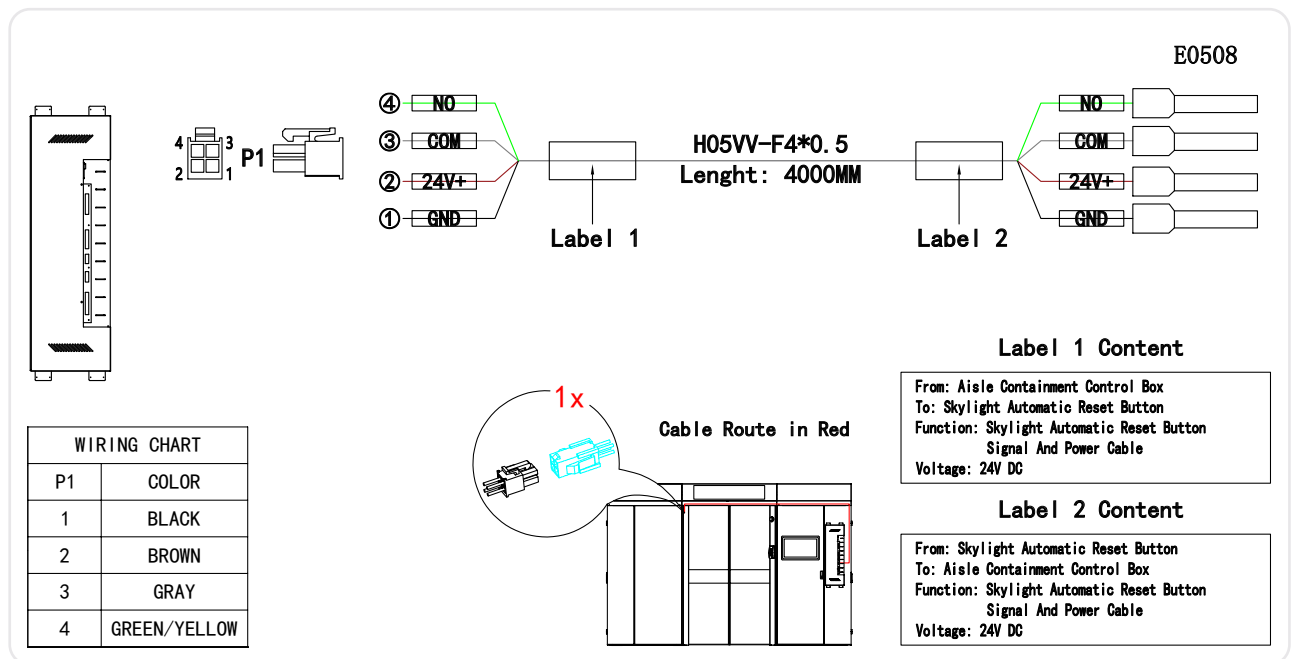
✓ GND - (Negative)

✓ 24V + (Positive)

✓ COM C

✓ NO NO

5.2 Aisle Containment Control Box Signal and Power Lead

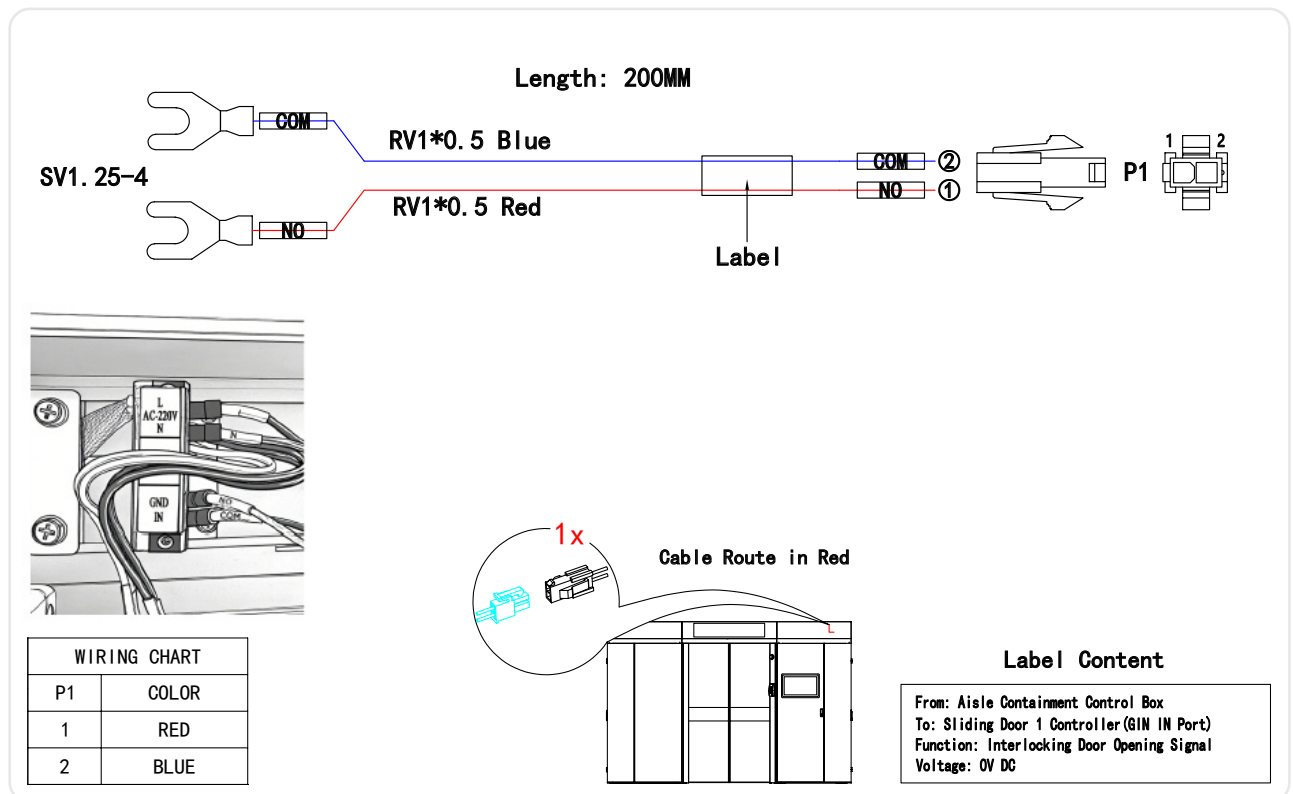


The cable is connected to the Aisle Control Box:

- ✓ GND connects to Port 20
- ✓ 24V+ connects to Port 19
- ✓ COM connects to Port 22
- ✓ NO connects to Port 21

6.0 Sliding Door 1 Interlock Release Signal Cable

6.1 Sliding Door 1 Controller Lead Cable

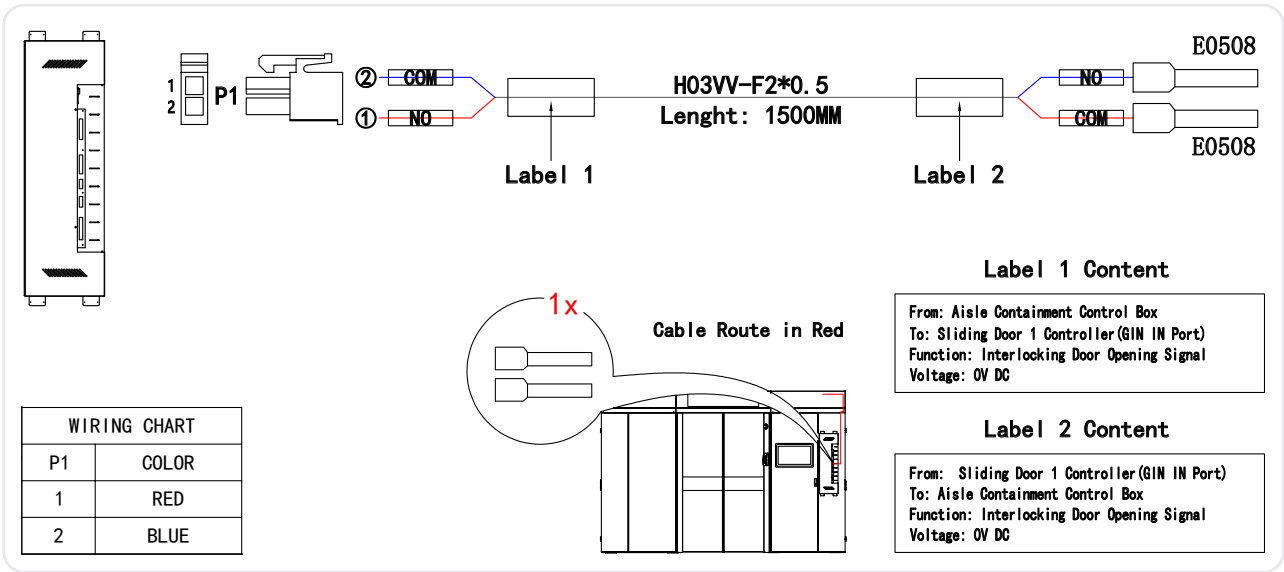


The cable is connected to the Sliding Door 1 Power Controller:

✓ COM connects to IN.

✓ NO connects to GND.

6.2 Aisle Containment Control Box Lead Cable (Interlocking Door Opening Signal)

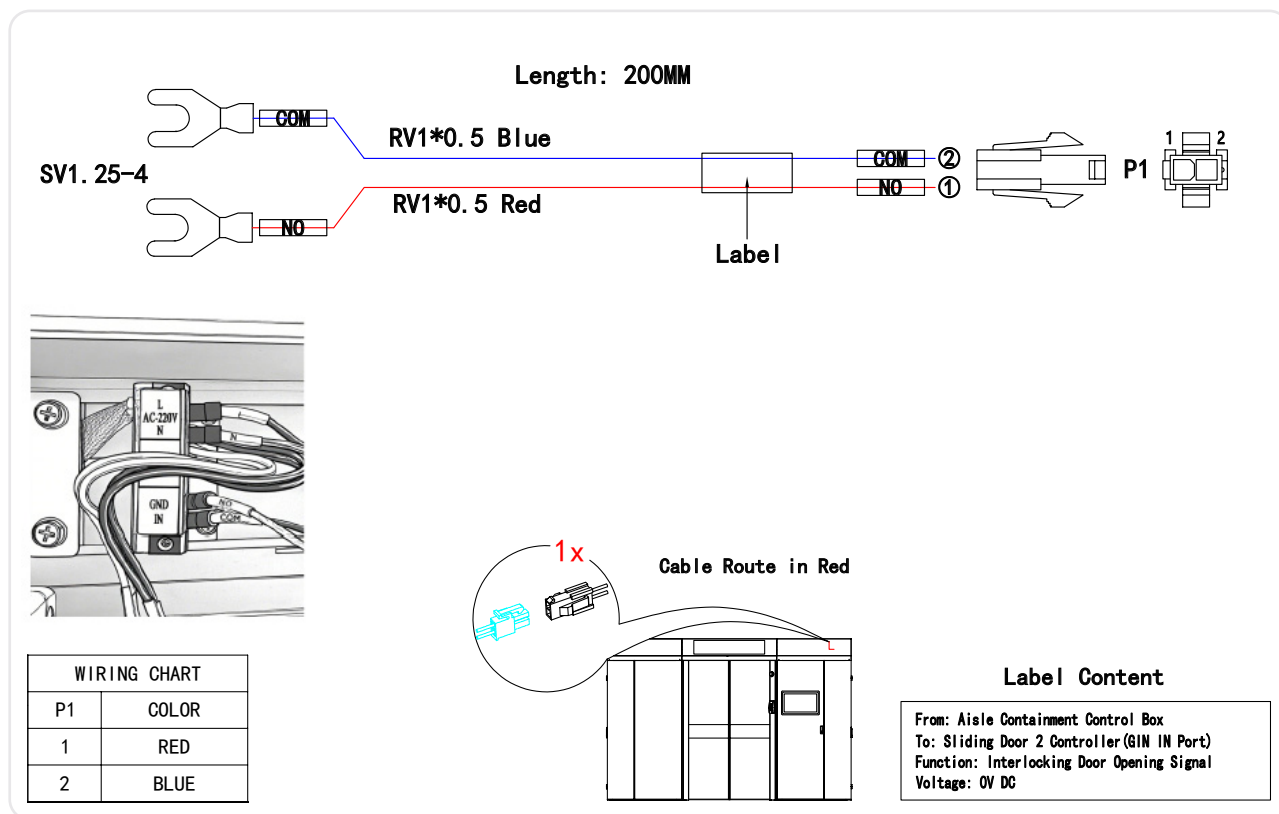


The cable is connected to the Aisle Control Box:

- ✓ Sliding Door 1
- ✓ COM connects to Port 10
- ✓ NO connects to Port 9

7.0 Sliding Door 2 Interlock Release Signal Cable

7.1 Sliding Door 2 Controller Lead Cable

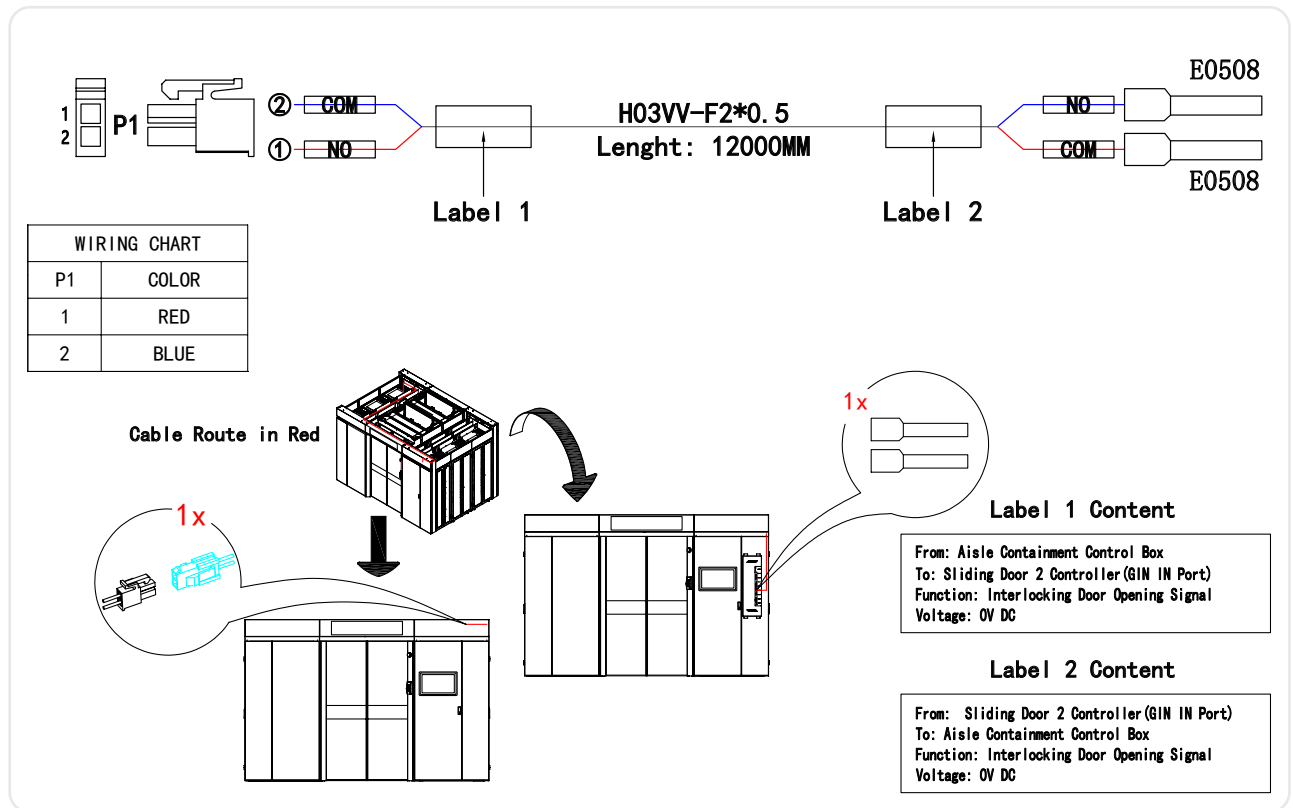


The cable is connected to the Sliding Door 2 Power Controller:

✓ COM connects to IN.

✓ NO connects to GND.

7.2 Aisle Containment Control Box Lead Cable (Interlocking Door Opening Signal)

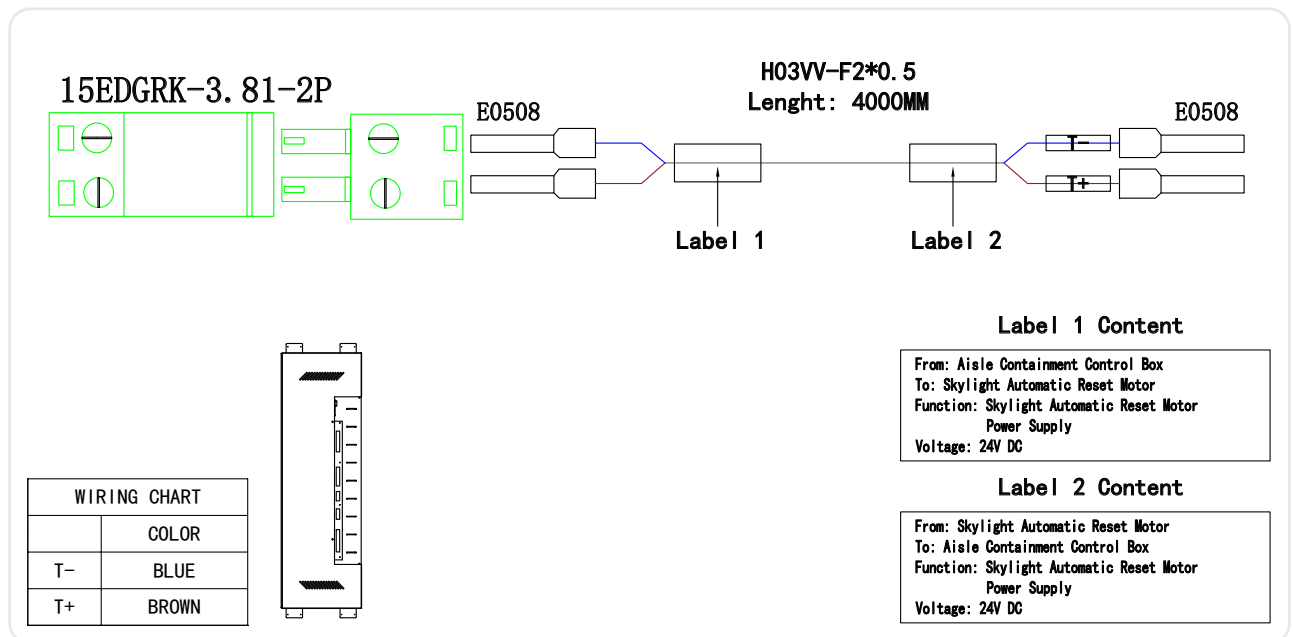


The cable is connected to the Aisle Control Box:

- ✓ Sliding Door 2
- ✓ COM connects to Port 12
- ✓ NO connects to Port 11

8.0 Skylight Automatic Reset Motor

8.1 Skylight Automatic Reset Motor Power Supply



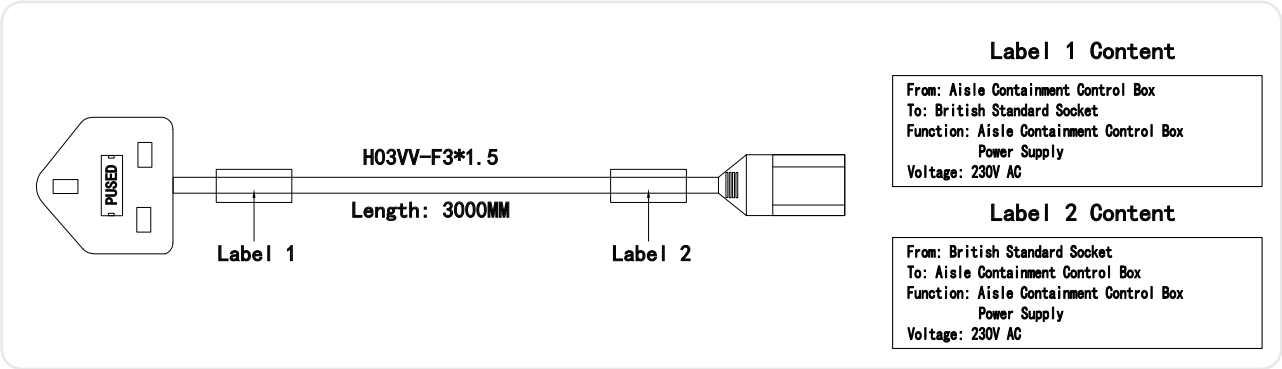
The cable is connected to the Aisle Control Box:

✓ T+ connects to Port 23

✓ T- connects to Port 24

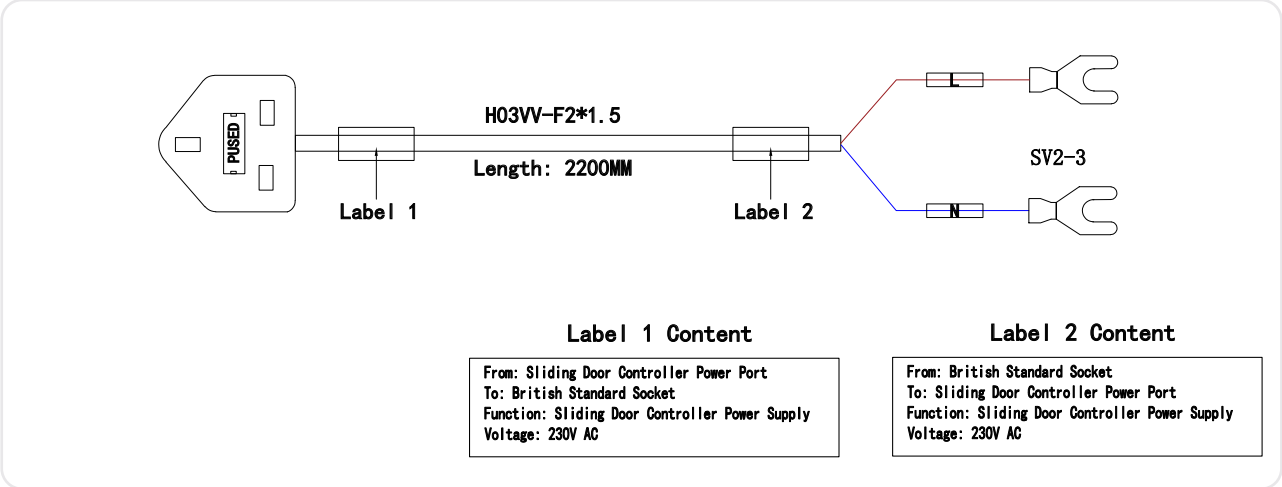
9.0 Aisle Containment Control Box Power Cable

9.1 Aisle Containment Control Box Power Cable



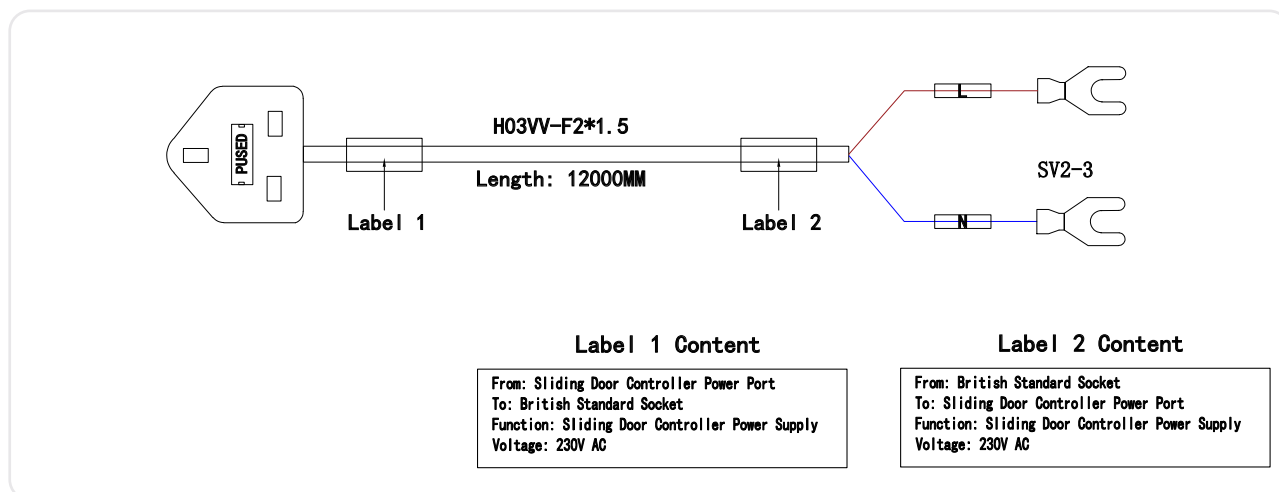
10.0 Sliding Door 1 Controller Power Cable

10.1 Sliding Door 1 Controller Power Cable



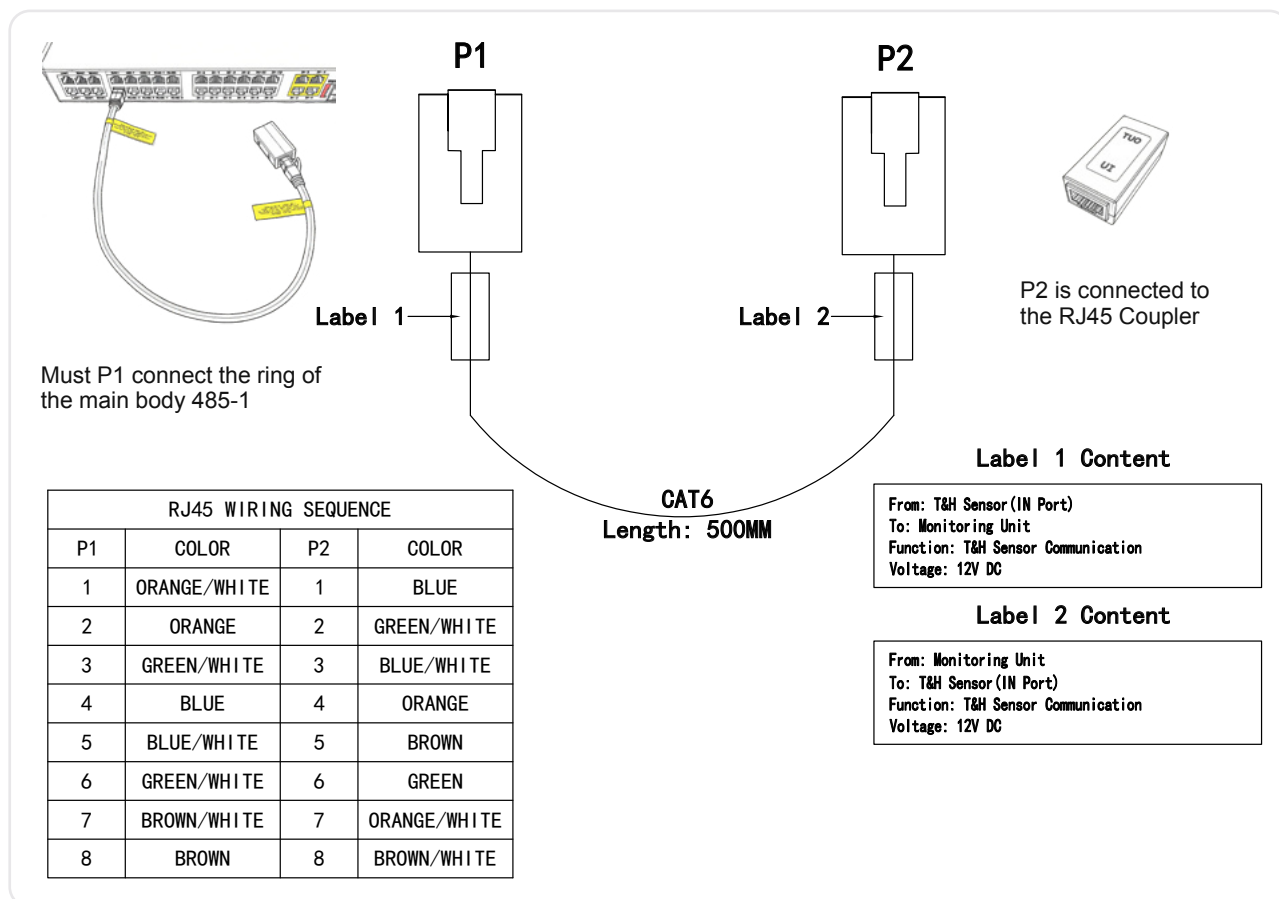
11.0 Sliding Door 2 Controller Power Cable

11.1 Sliding Door 2 Controller Power Cable



12.0 T&H Sensor Host Communication Cable

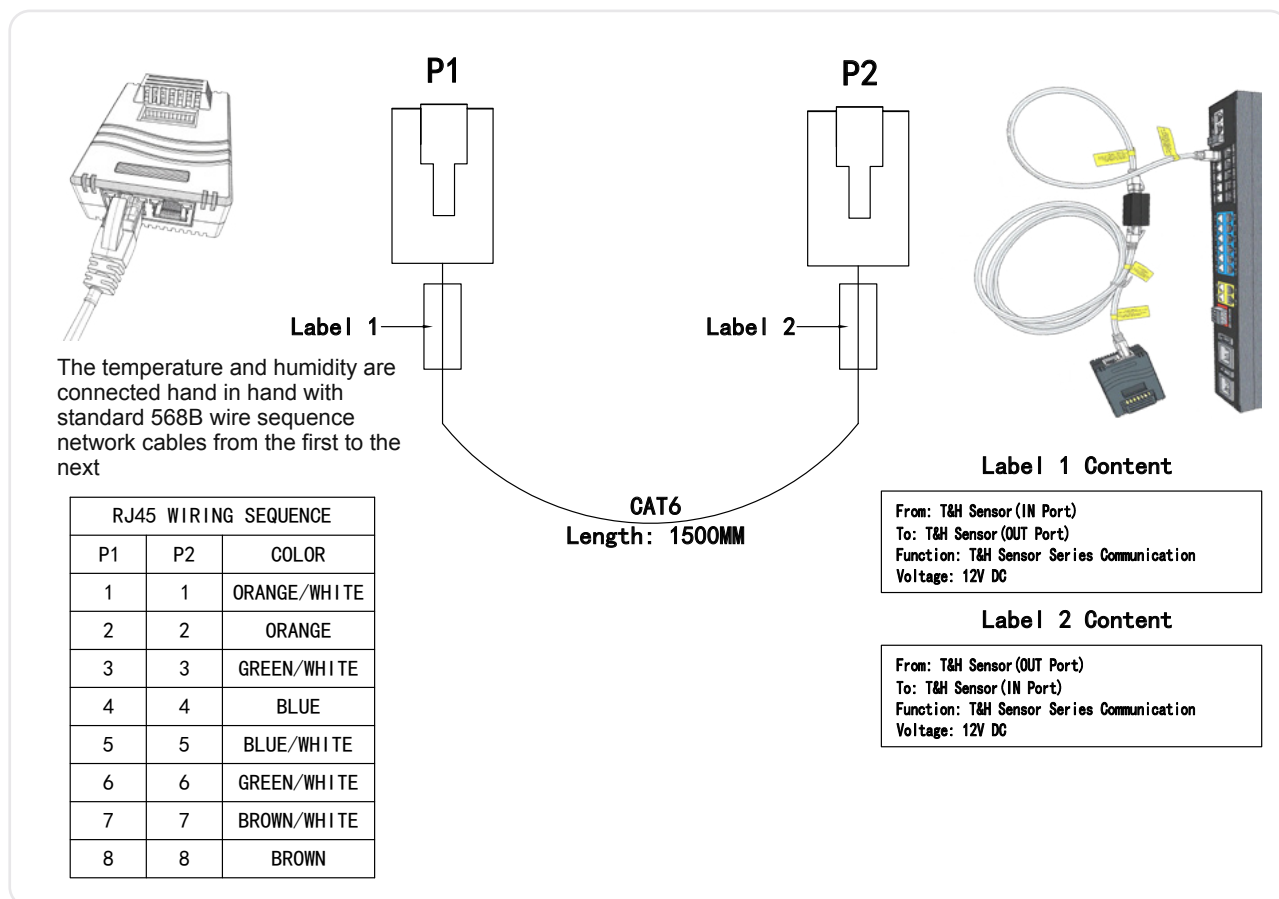
12.1 T&H Sensor Host Communication Cable



Must P1 connect the ring of the main body 485-1

13.0 T&H Sensor Series Communication Cable

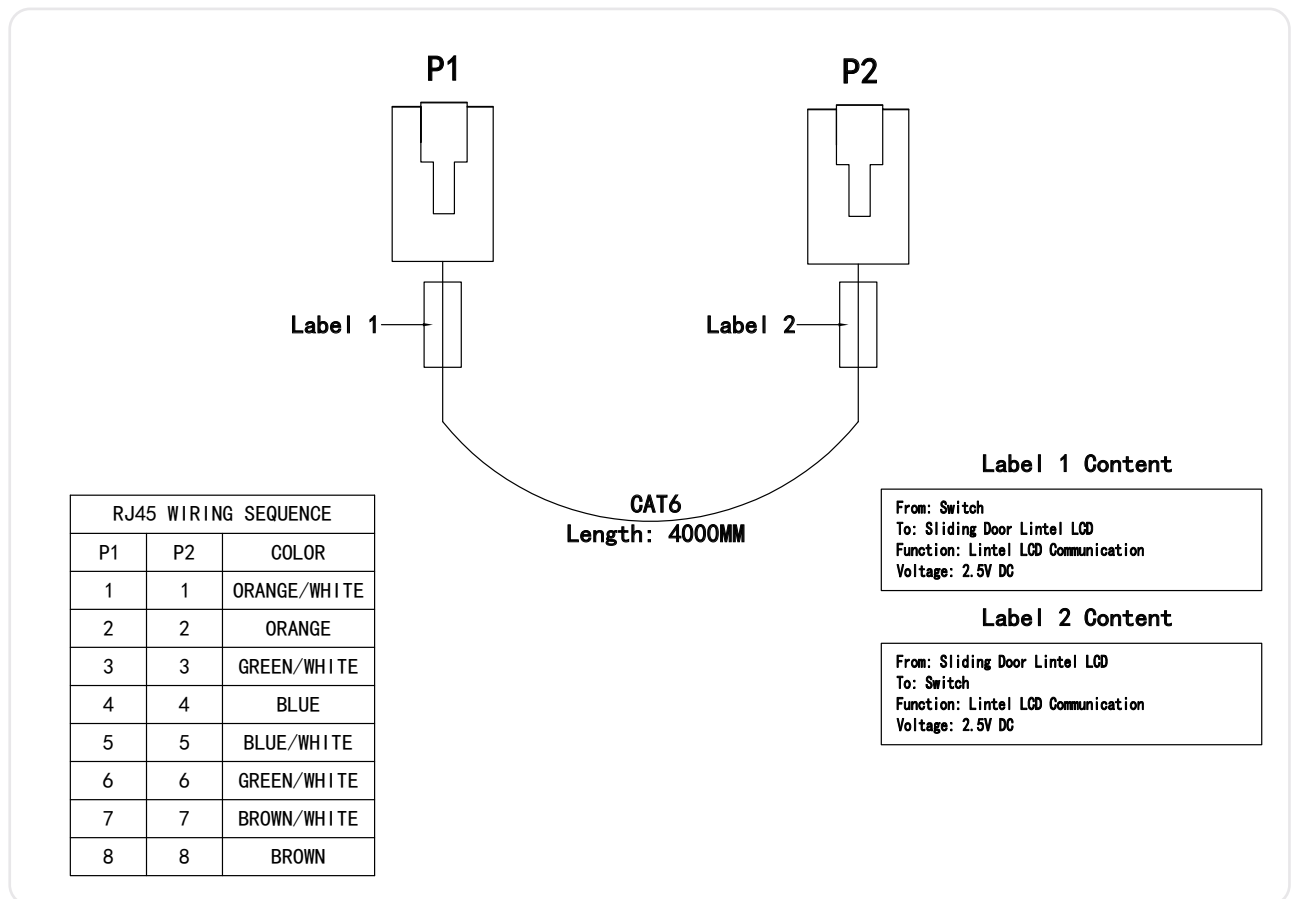
13.1 T&H Sensor Series Communication Cable



The temperature and humidity are connected hand in hand with standard 568B wire sequence network cables from the first to the next.

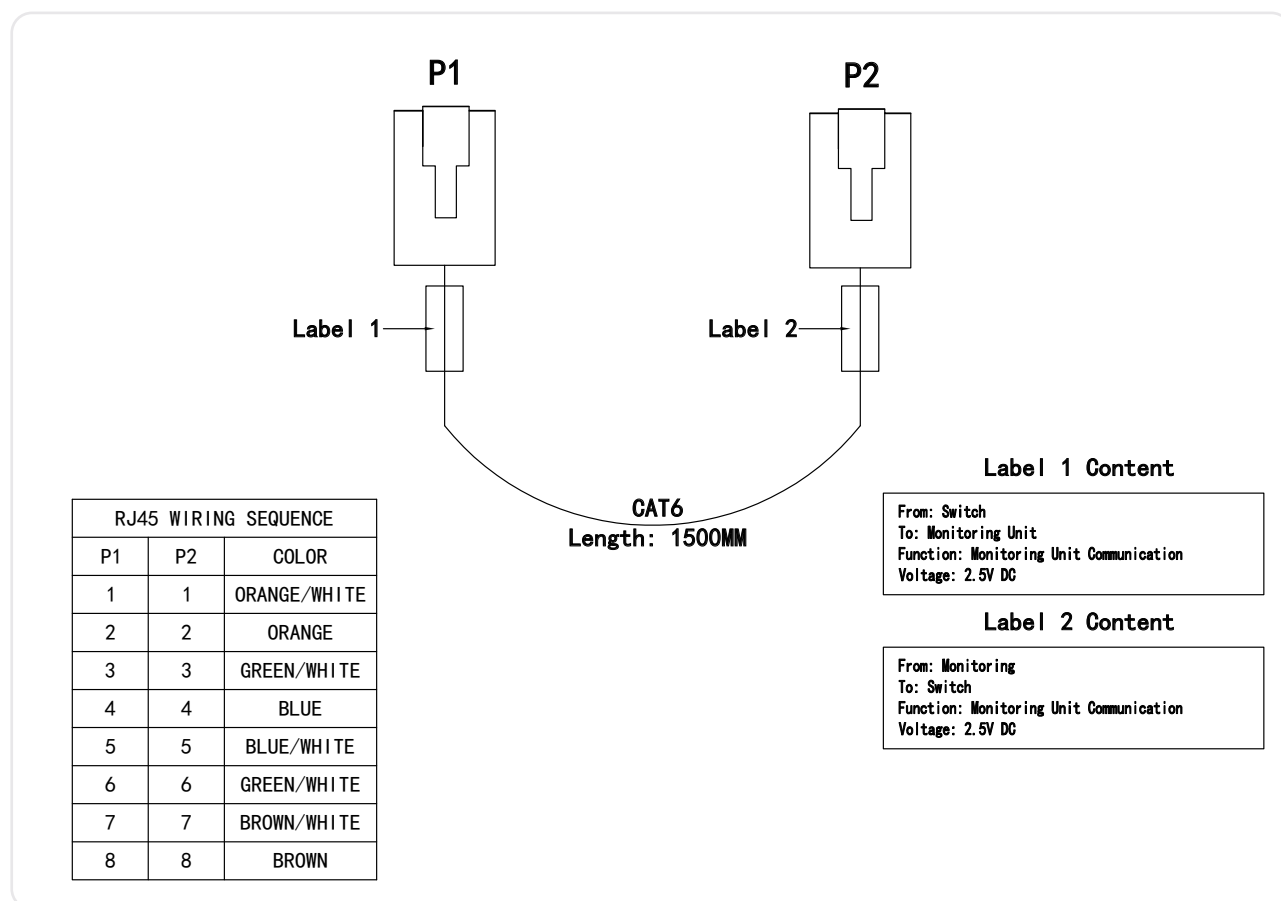
14.0 Lintel LCD Communication Cable

14.1 Lintel LCD Communication Cable



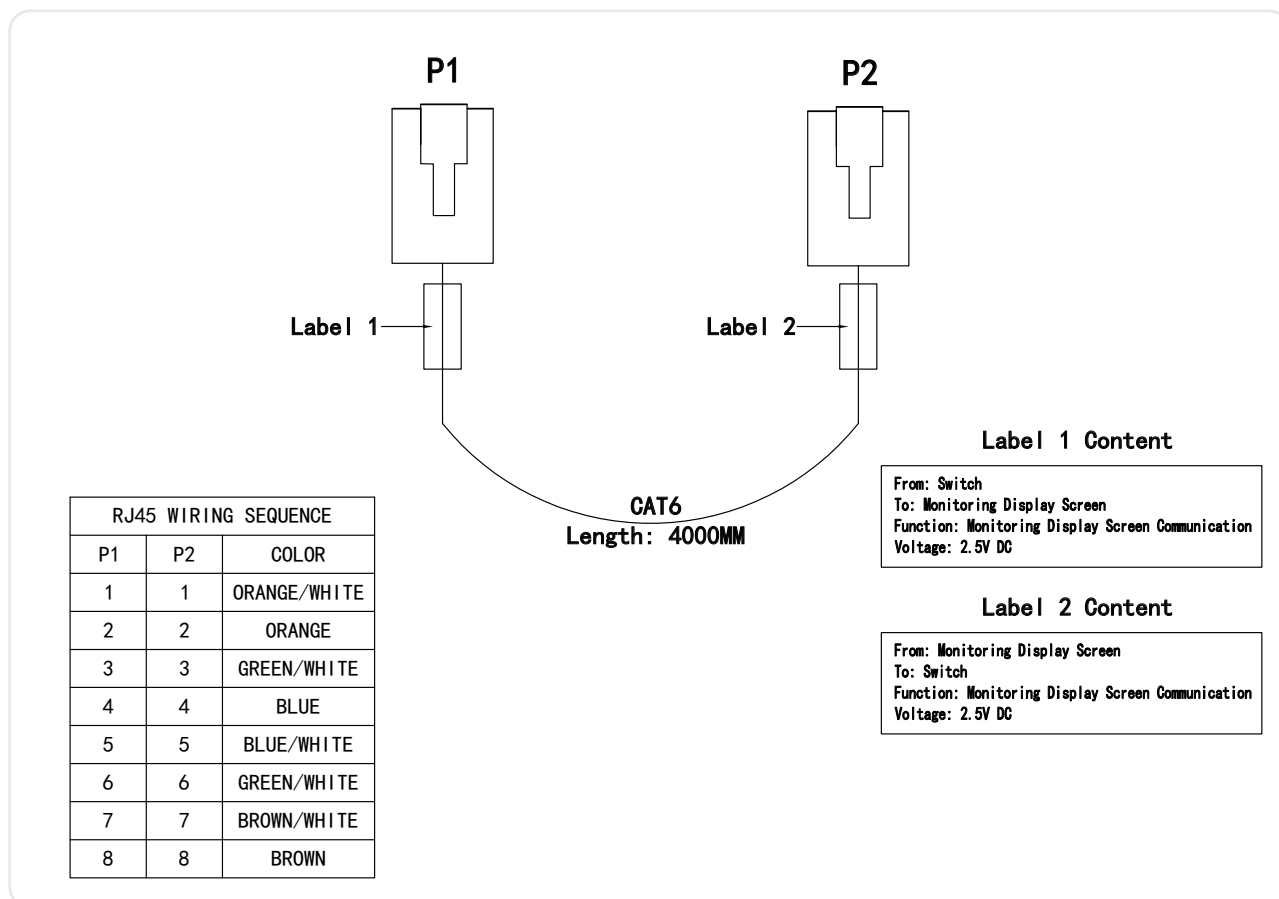
15.0 Monitoring Unit Communication Cable

15.1 Monitoring Unit Communication Cable



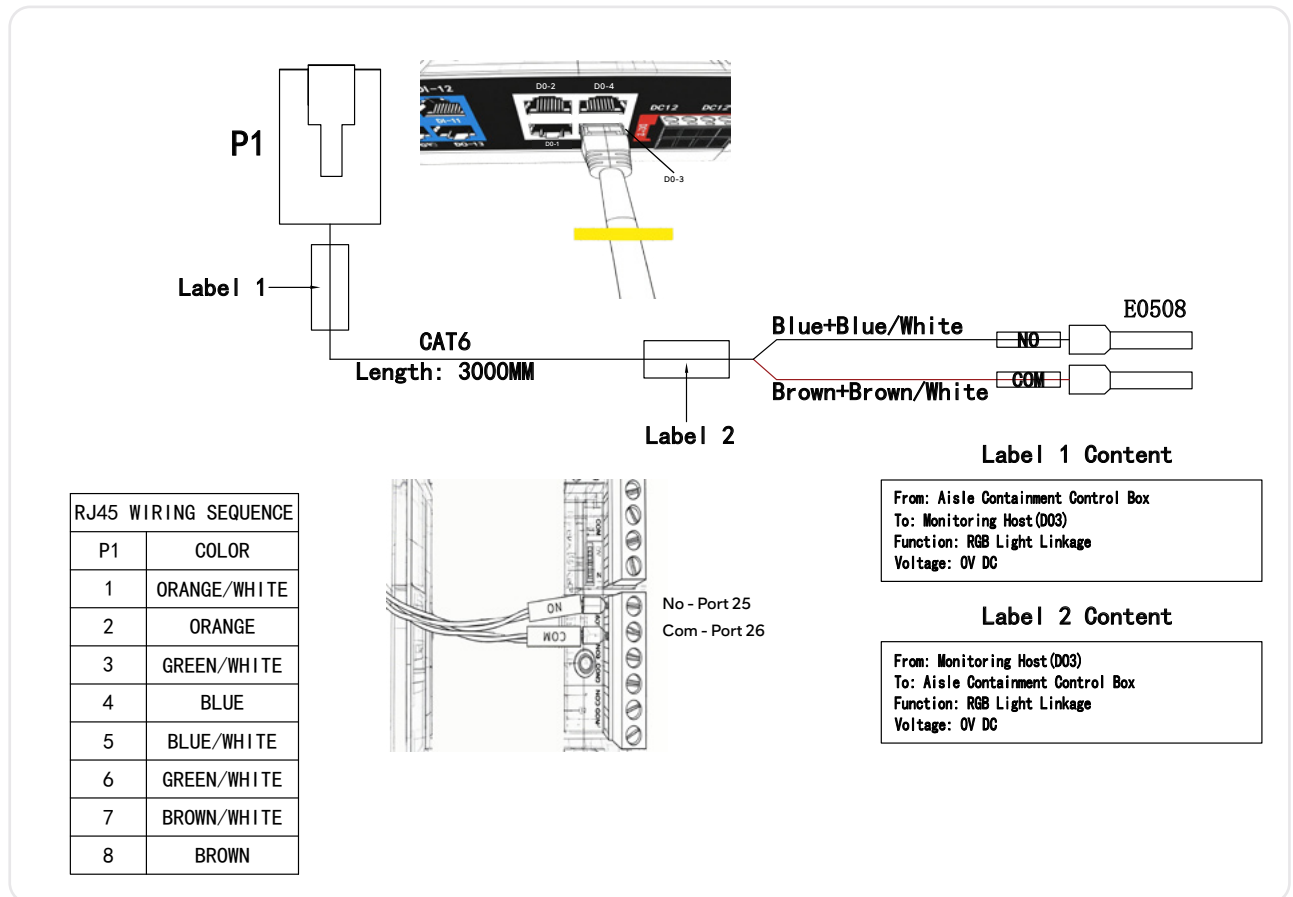
16.0 Monitoring Display Screen Communication Cable

16.1 Monitoring Display Screen Communication Cable



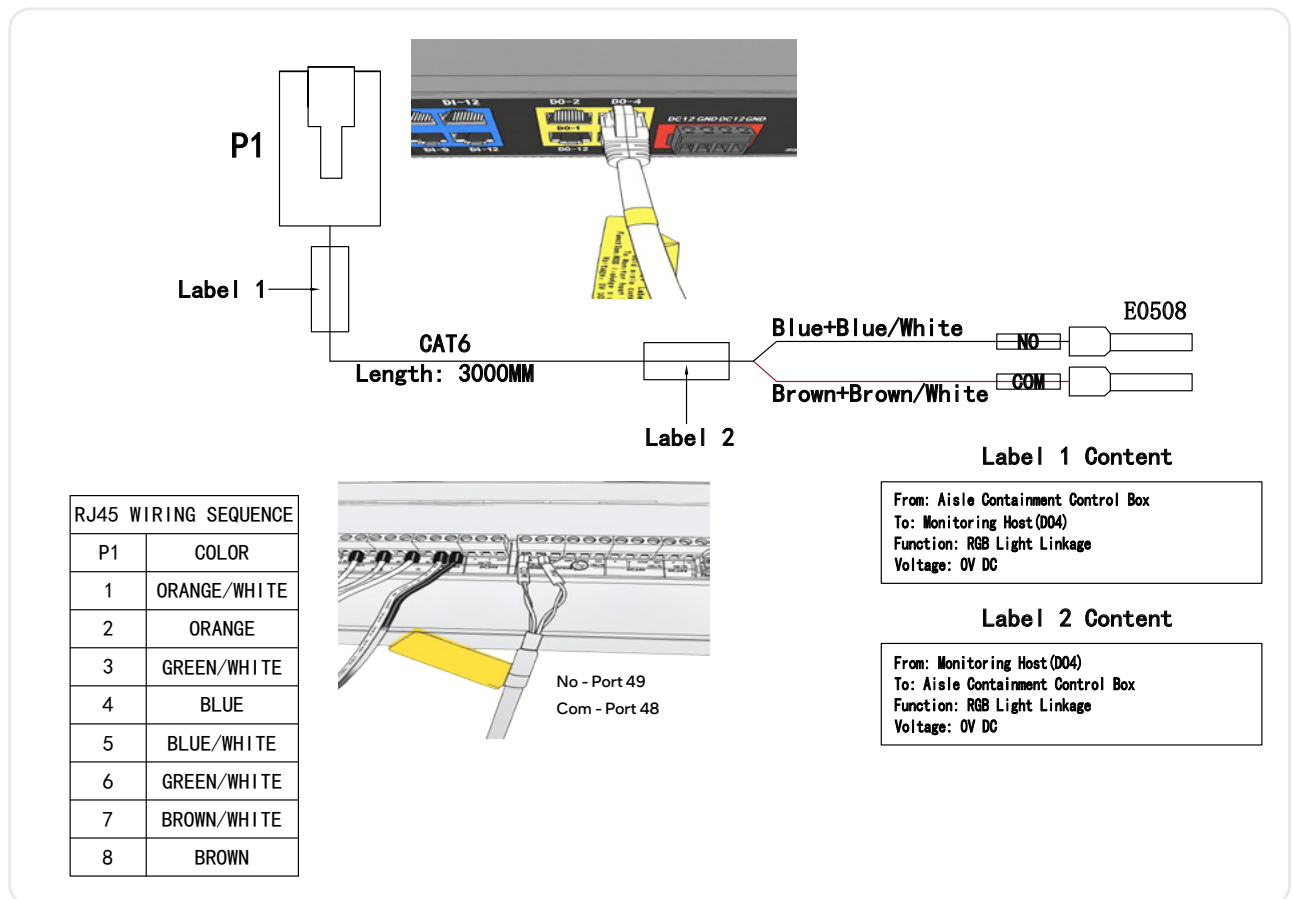
17.0 RGB Light Linkage Cable

17.1 RGB Light Linkage Cable



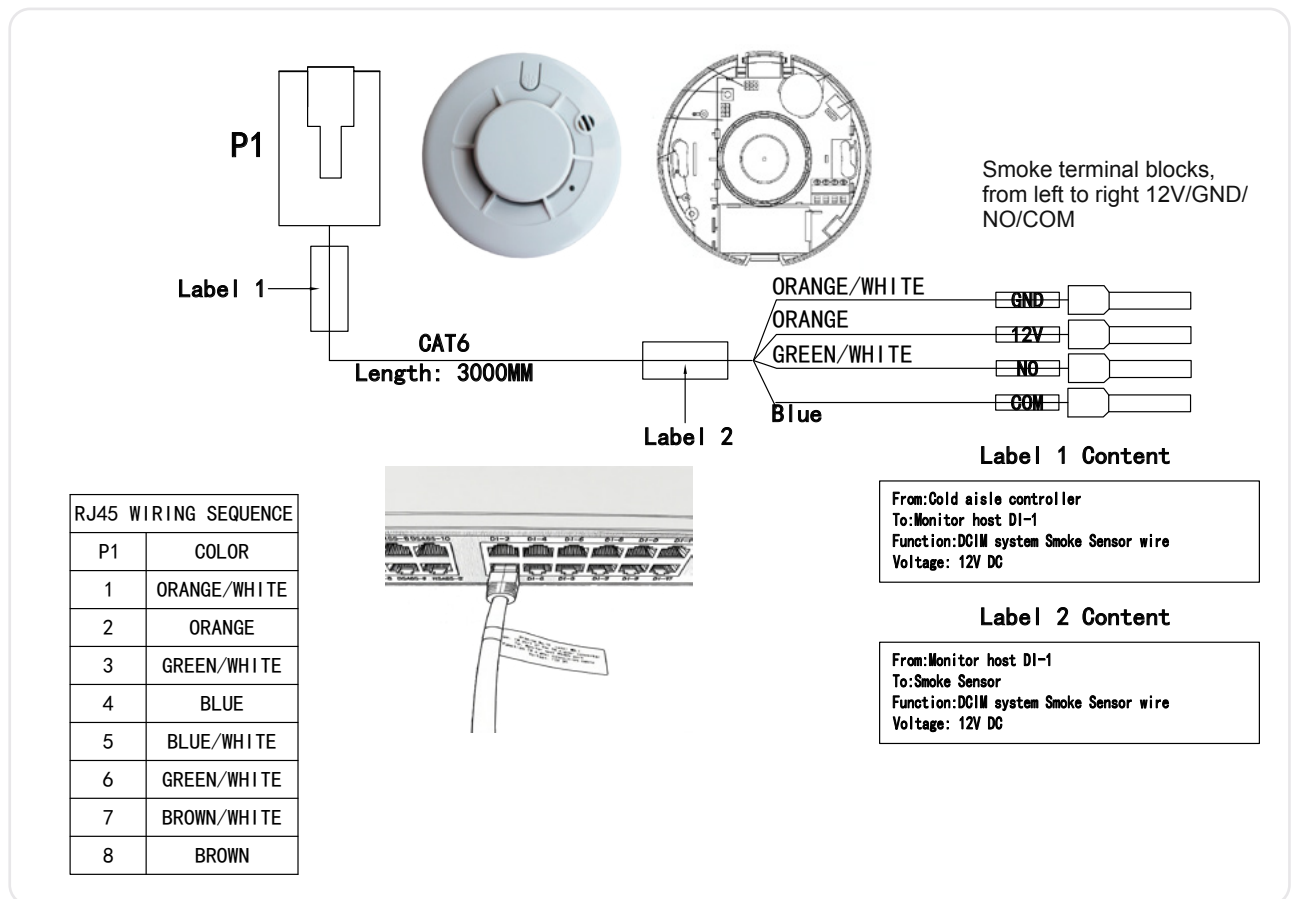
18.0 Environmental Control Linkage Alarm

18.1 Environmental Control Linkage Alarm



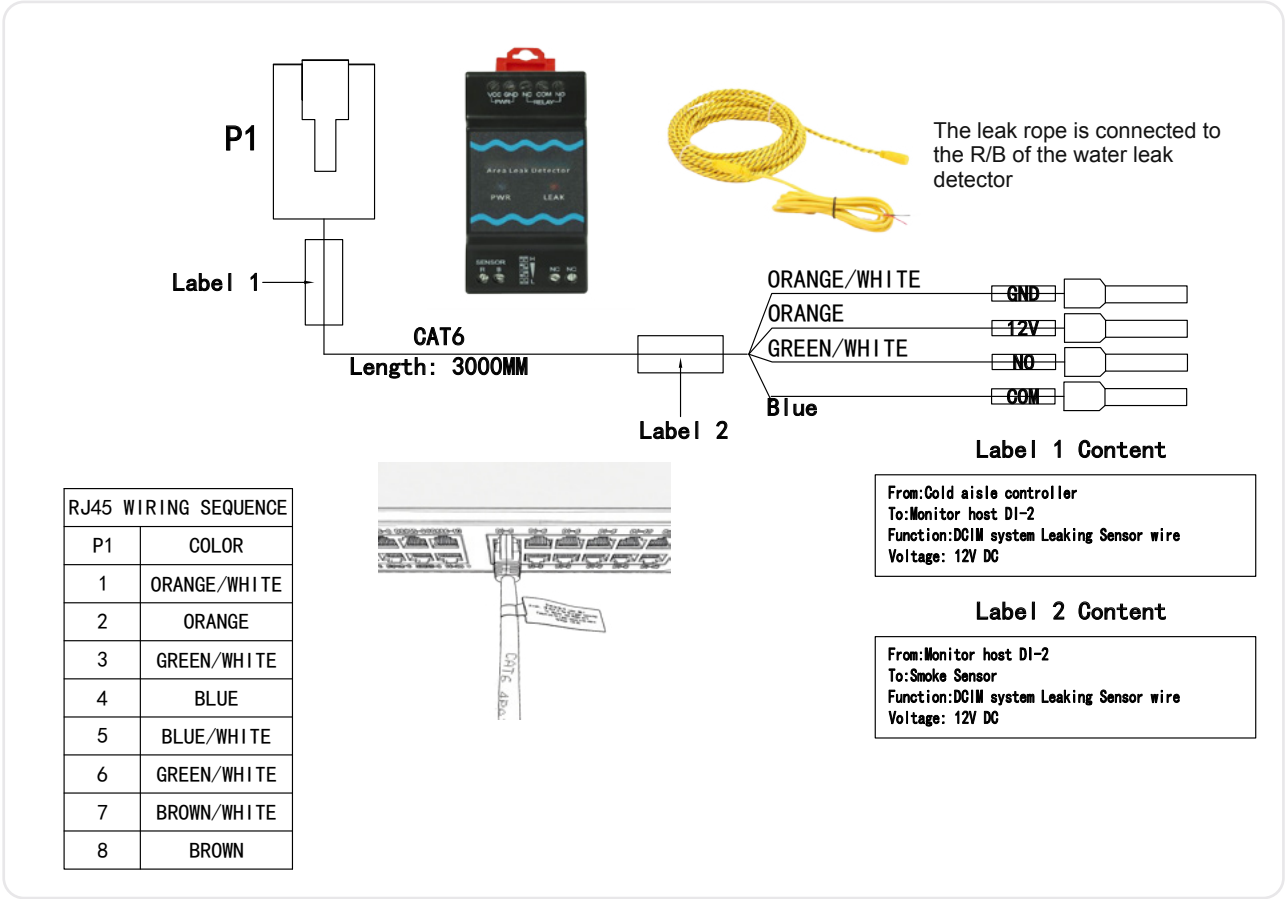
19.0 Smoke Sensor Power and Signal Wire

19.1 Smoke Sensor Power and Signal Wire



20.0 Leaking Sensor Power and Signal Wire

20.1 Leaking Sensor Power and Signal Wire



21.0 Installation Compliance Checks

This section is to ensure the installation is completed correctly and all features and systems are working as expected.

Items to check:	<input type="checkbox"/>
Emergency Stop Button	<input type="checkbox"/>
Access Control	<input type="checkbox"/>
Door Exit Button	<input type="checkbox"/>
Movement of Electronic Doors	<input type="checkbox"/>
Infra Red Sensors	<input type="checkbox"/>
Skylight Reset Button (where fitted)	<input type="checkbox"/>
Temperature Humidity Sensors	<input type="checkbox"/>
Water Rope Sensors	<input type="checkbox"/>

Detailed checks to be made for each item:

Emergency Stop - This should be stowed in the open position, and pressed down hard to activate, upon doing so, the Skylights should be released, the doors open and an alarm will sound. To re-set, twist the button anti-clockwise. Following this you will also need to close the skylights.

Access Control - Use the RFID card or keycode to unlock the electronic doors and these should then open automatically, closing again after a period of 5 seconds or so, timing can be adjusted. Biometric Access Control will need a user adding and a finger print saved against each user to test this method of control.

Door Exit Button - With the doors closed and the system in normal condition, pressing the Door Exist Button should open the electronic doors in the same way as using the access control.

Movement of Electronic Doors - The doors should open smoothly and easily with no obstructions or rubbing against frame work or closing panels.

Infra Red Sensors - With the doors in the open position, if blocking the closure of the doors by standing in the way, the doors should not close, if they start to close they should stop and revert back to fully open. The sensitivity and time delay can be adjusted on the beam sensor box.

Skylight Reset Button - Where a fully automatic Skylight system is fitted, once the skylights have been set off via the emergency stop or smoke alarm, and the system has been re-set, then the skylight re-set button can be pressed to begin closure of the skylights.

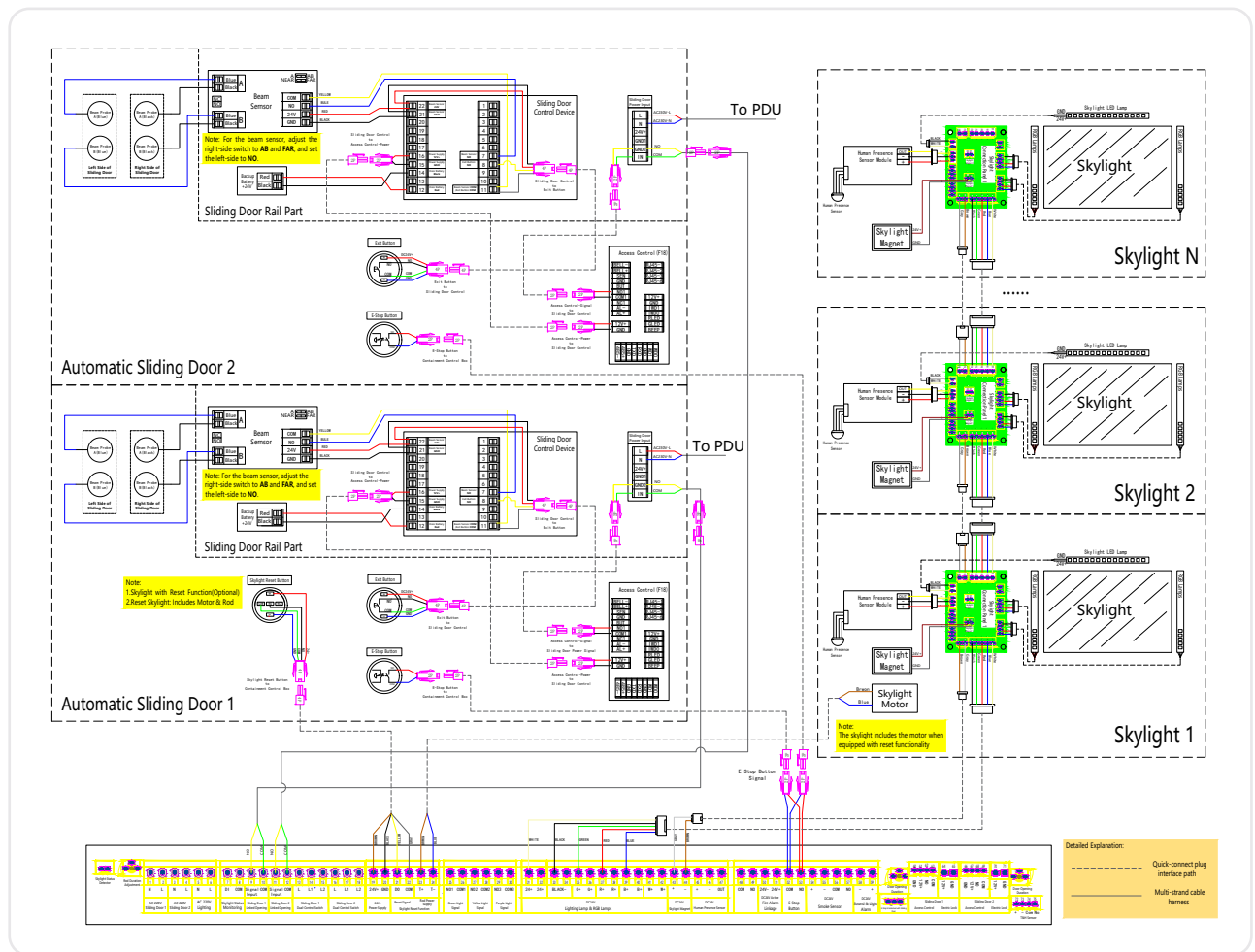
Temperature Humidity Sensor - These should be showing on the Monitoring system as live data under the “Environment” section. Hold one of the Temperature sensors in the closed palm of your hand and look for an increase or change in temperature after a few minutes.

Water Rope Sensors - Use a small cloth that is damp to moist with water, squeeze the cloth over the rope to allow drops of water onto it, (ensuring there is nothing below that would be damaged by water), and this should trigger the system alarm and notifications. Wipe dry and the alarm should cease.

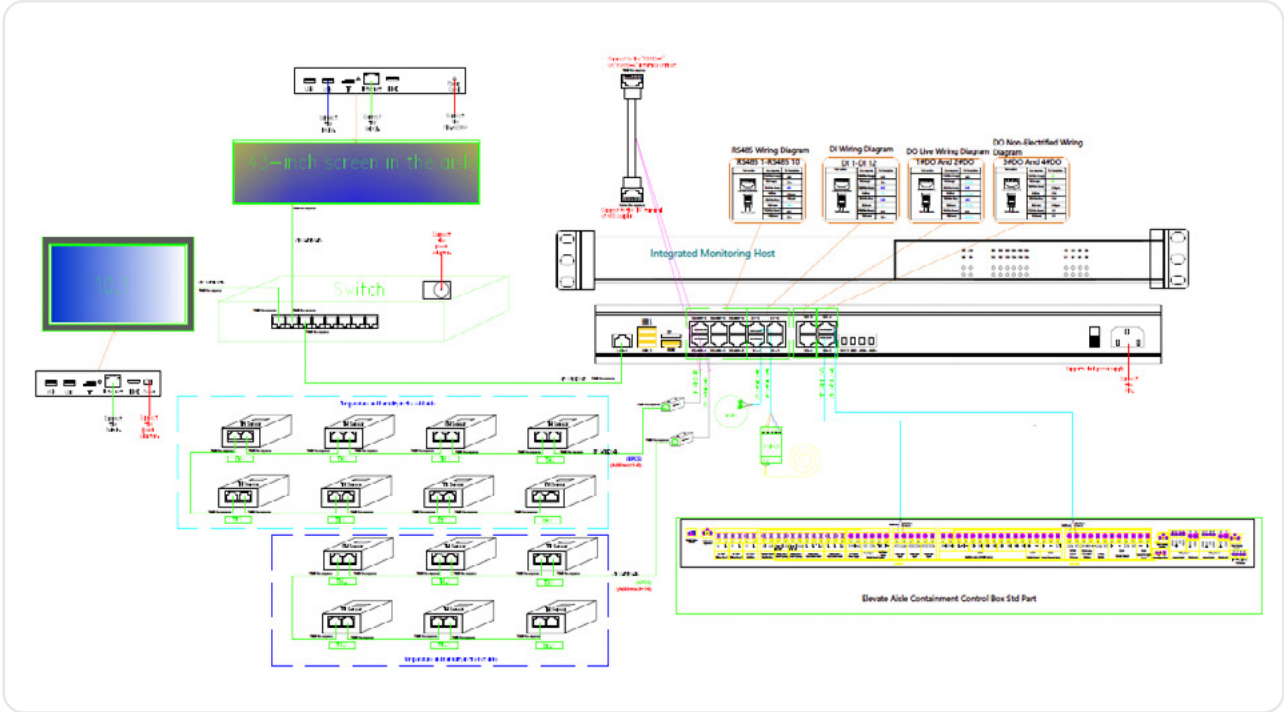
If any of the above points are not correct, refer back to the relevant section in the installation instructions and also cross check against the wiring diagrams in the appendix of this document. Further support can be obtained from emailing TechnicalS@mayflex.com.

Appendices

Appendix A



Appendix B



Appendix C - Cold Aisle Fire System Connections

As the Cold Aisle Containment or Hot Aisle Containment is positioned within a main building, it is important to offer connections between Fire system and detection of both entities.

The Control Panel installed into the Elevate Aisle Containment system supports this.

Connection to building Gas Fire Suppression

Terminals 50 and 51 are specifically designed to connect to the local gas fire suppression alarm system in the equipment room, enabling firefighting linkage functionality. The specific logic is as follows:

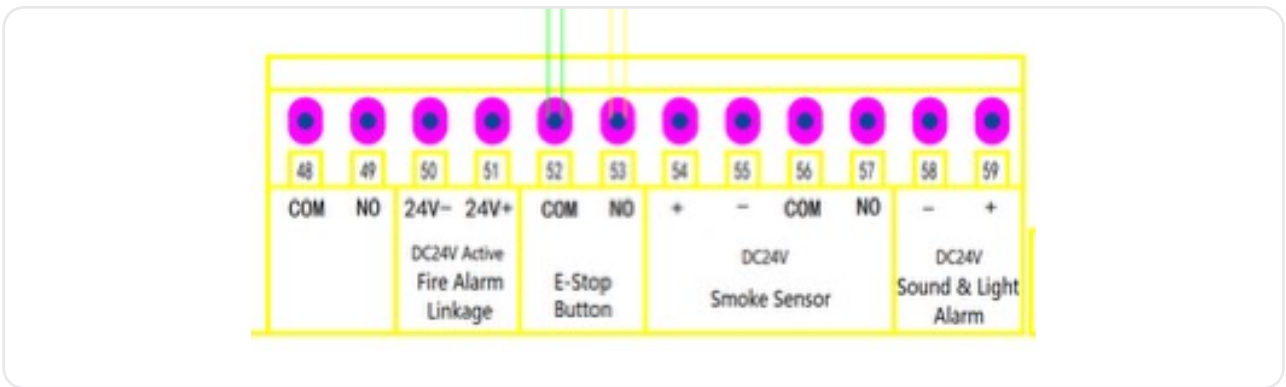
Working Principle: These terminals receive a DC24V active voltage signal. When the gas suppression control panel detects a fire alarm and outputs a DC24V voltage, the system will automatically trigger the linkage mechanism, opening the passage sliding doors and skylights to meet smoke exhaust and personnel evacuation requirements.

✓ **Alarm Status:** DC24V input → linkage activation.

✓ **Normal Status:** 0V → no action.

Wiring Scope: In principle, only the local gas fire suppression system in the equipment room should be connected.

System Independence: The linkage logic of this system operates independently of the building's general fire alarm system. This design ensures that localized fire suppression actions within the equipment room accurately trigger physical facility linkages without interference from the building's overall fire alarm signals.



View of connections on the main Aisle Containment control Board.

Connections of Building Fire Alarm signal to Cold Aisle

The smoke signal terminals (54-57) on the cold aisle control panel can independently connect to smoke detectors. When a smoke sensor triggers an alarm, the skylight and sliding door will automatically open. 54-55 are 24v DC, 56-57 are COM – NO Signals. Simultaneously, terminals 58 and 59 on the aisle control box will output a DC24V voltage signal (if connected to an audible-visual alarm, it will activate).

ELEVATE

Future Faster

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