

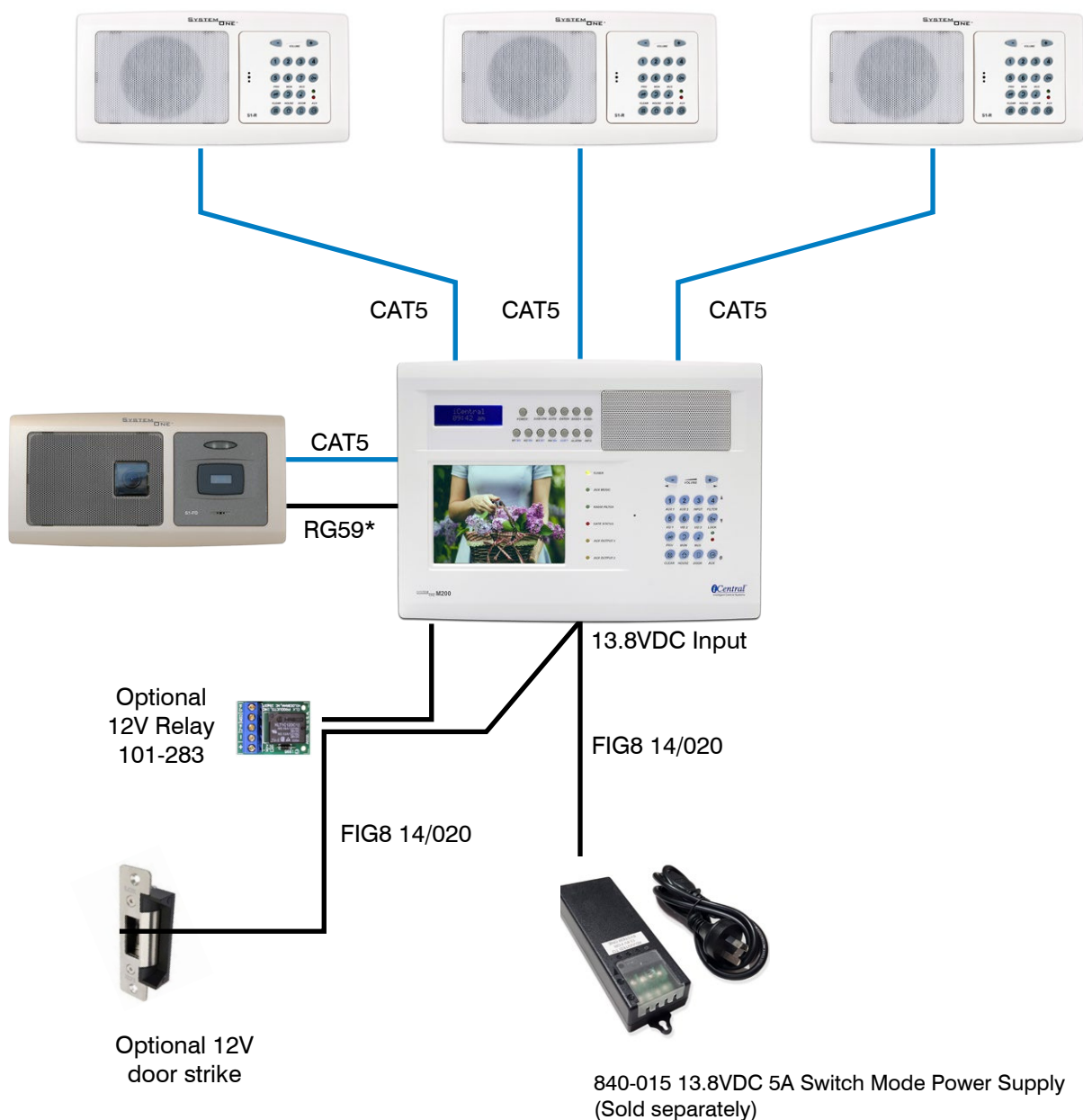


SYSTEM ONE INTERCOM SYSTEMS

QUICK START GUIDE

For Installers

CONNECTION OVERVIEW 8 WIRE METHOD



*RG59 coax cable for video door stations. Or see page xx 'Video via 6 wire cable'

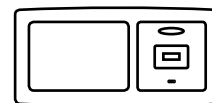
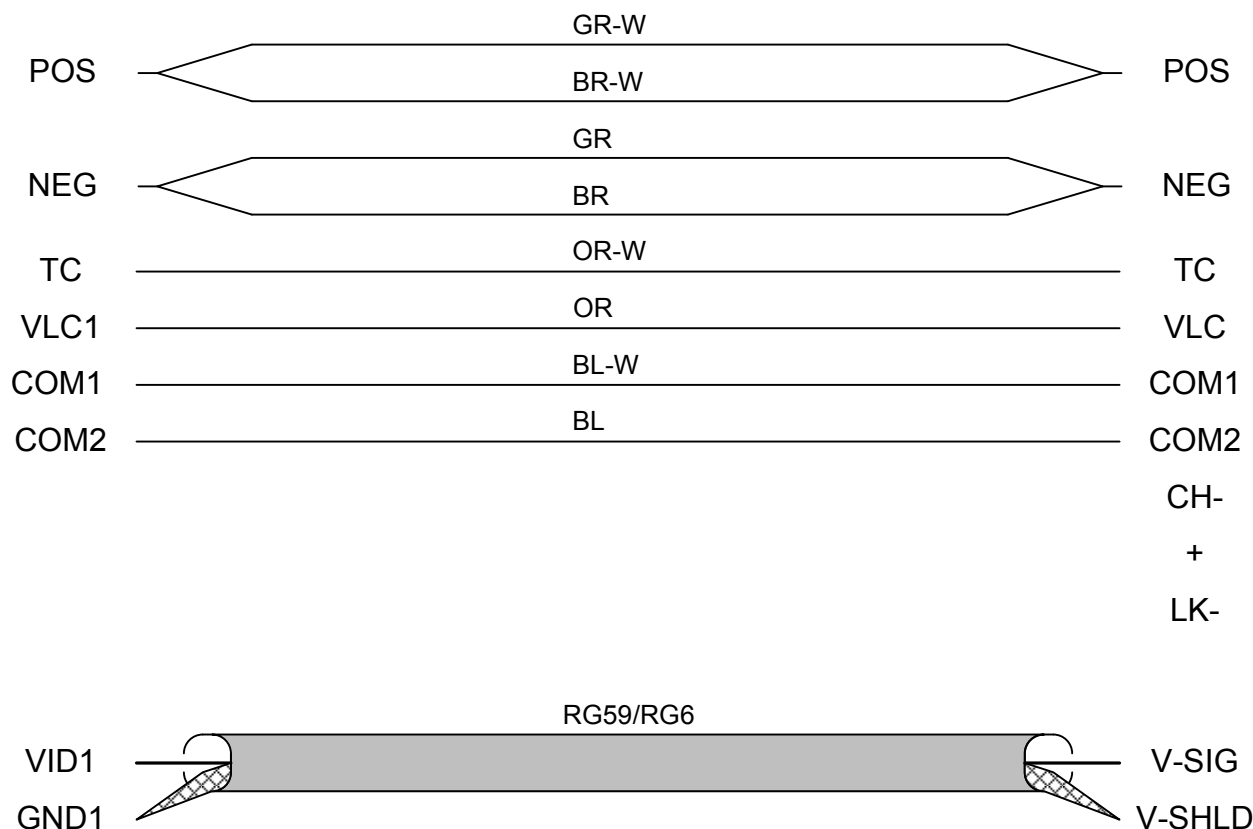
This diagram is an overview of required cabling, not a wiring diagram.

8 Wire Connection
MASTER TO ROOM STATIONS
Using CAT5

MASTER**ROOM**

POS	GR-W	POS
NEG	GR	NEG
TC	OR-W	TC
VLC1	OR	VLC
COM1	BL-W	COM1
COM2	BL	COM2
MUS1	BR-W	MUS1
MUS2	BR	MUS2
AUX		AUX

8 Wire Connection MASTER TO DOOR STATION Using CAT5 and RG59/RG6

**MASTER****DOOR****Notes:**

It is important to strictly adhere to the above format for optimum performance

Cable Requirement:

- 1 x CAT5 Cable (for general intercom operation)
- 1 x Coaxial Cable (for video transmission)

Extra FIG-8 cable required for operation of Electric Lock or Automatic Gate

- * Lock Output available at master or door station
- * Lock Output requires additional relay (Minimum coil resistance 240 ohm)

Maximum Distance: 100m (Using this cable configuration)

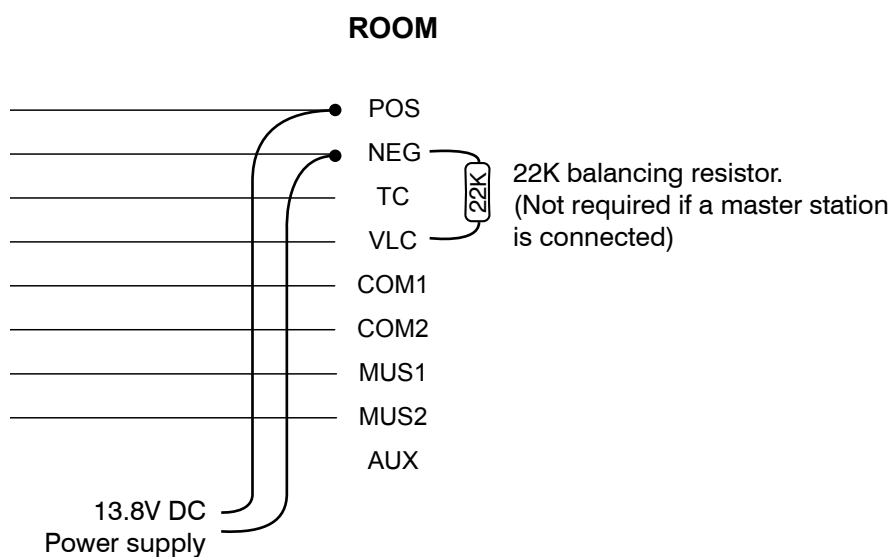
*For distances over 100m an additional power source is required at the door stn

IMPORTANT:

The type and number of wires used for POS and NEG are always to be balanced.

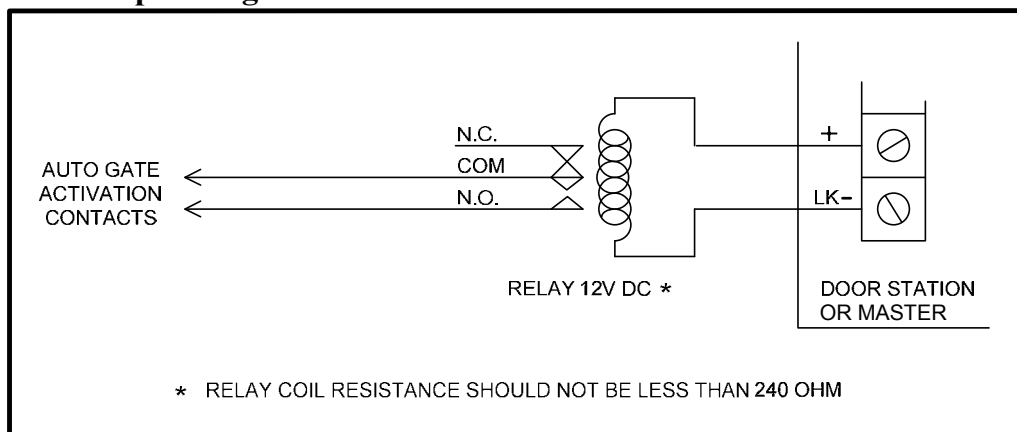
BALANCING RESISTOR

On **Room Station Only systems** (without a Master), a **22K load resistor is required** and must be fitted across the VLC and NEG terminals of the Room Station to which the power supply is connected.

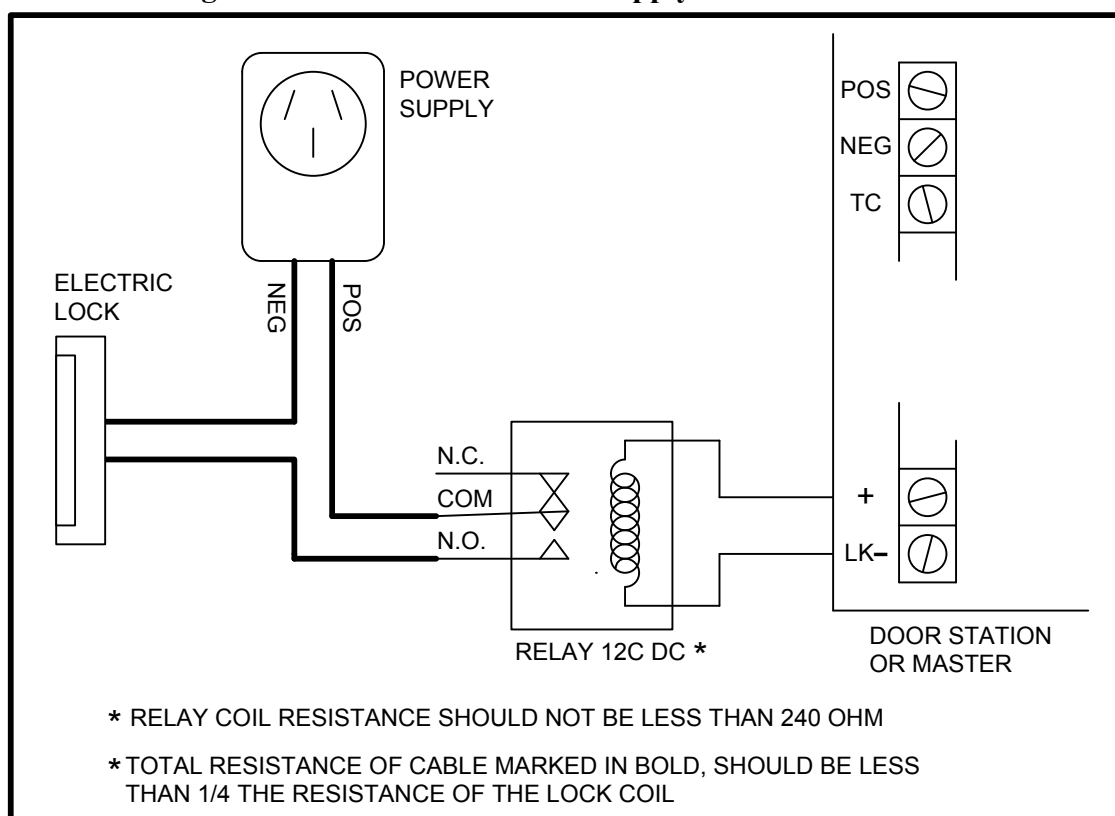


840-015 13.8V 5A Switch Mode power supply
(Sold separately)

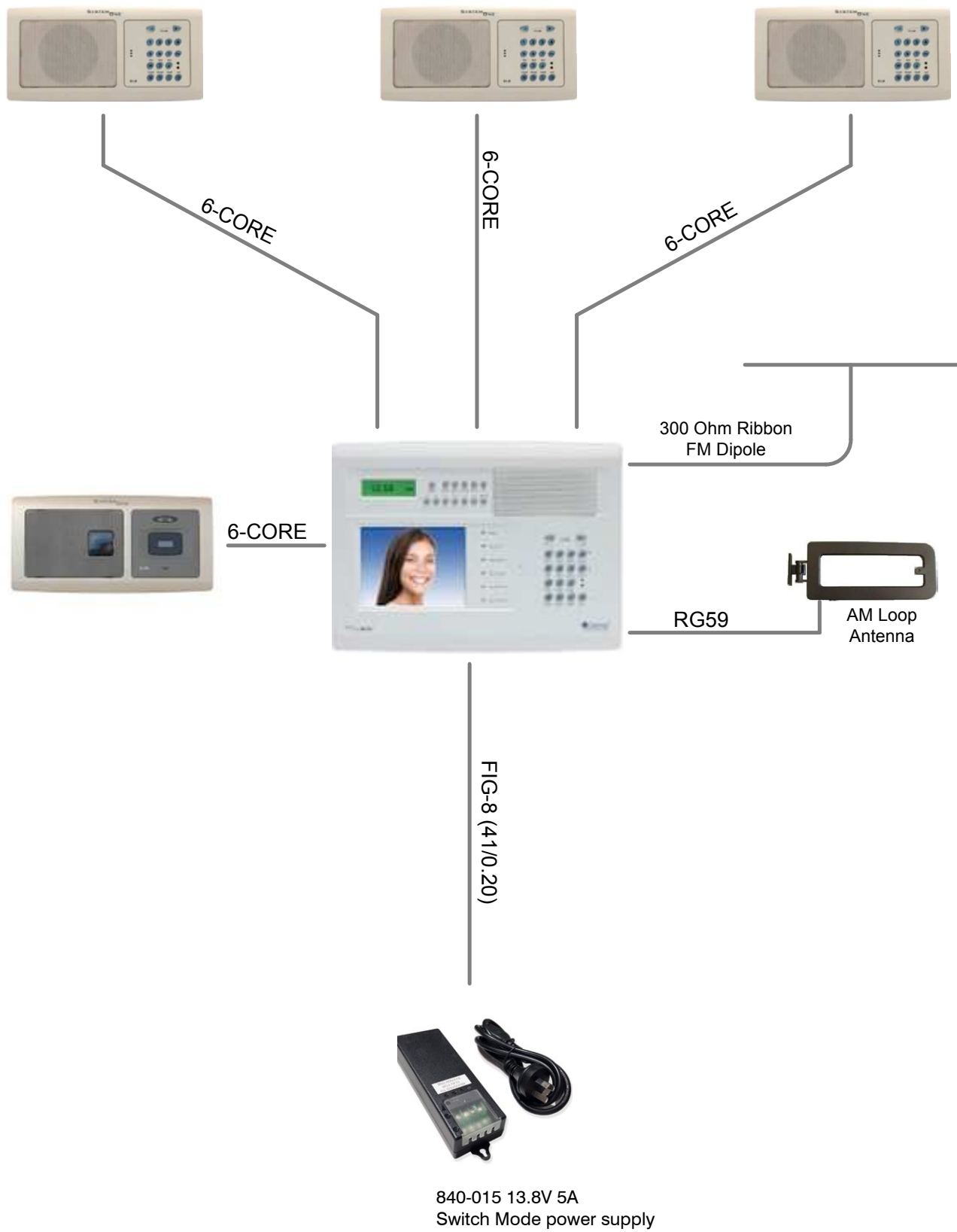
Operating Automatic Gates



Powering Electric Lock From Power Supply



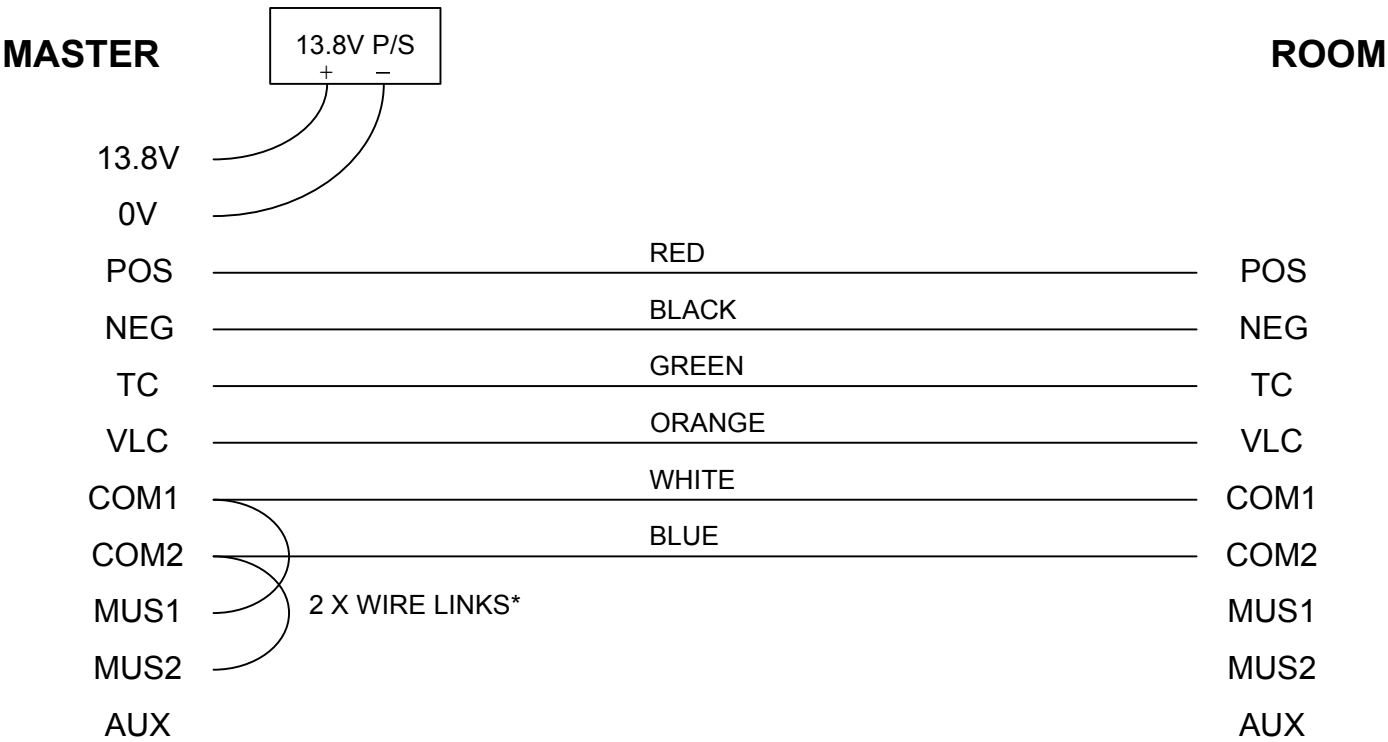
Note: Lock Relay can be fitted to Lock Output (+ and LK-) at master station or (+ and LK-) at door station.



(Power Supply sold separately)

CONNECTIONS – M200 MASTER TO ROOM STNS

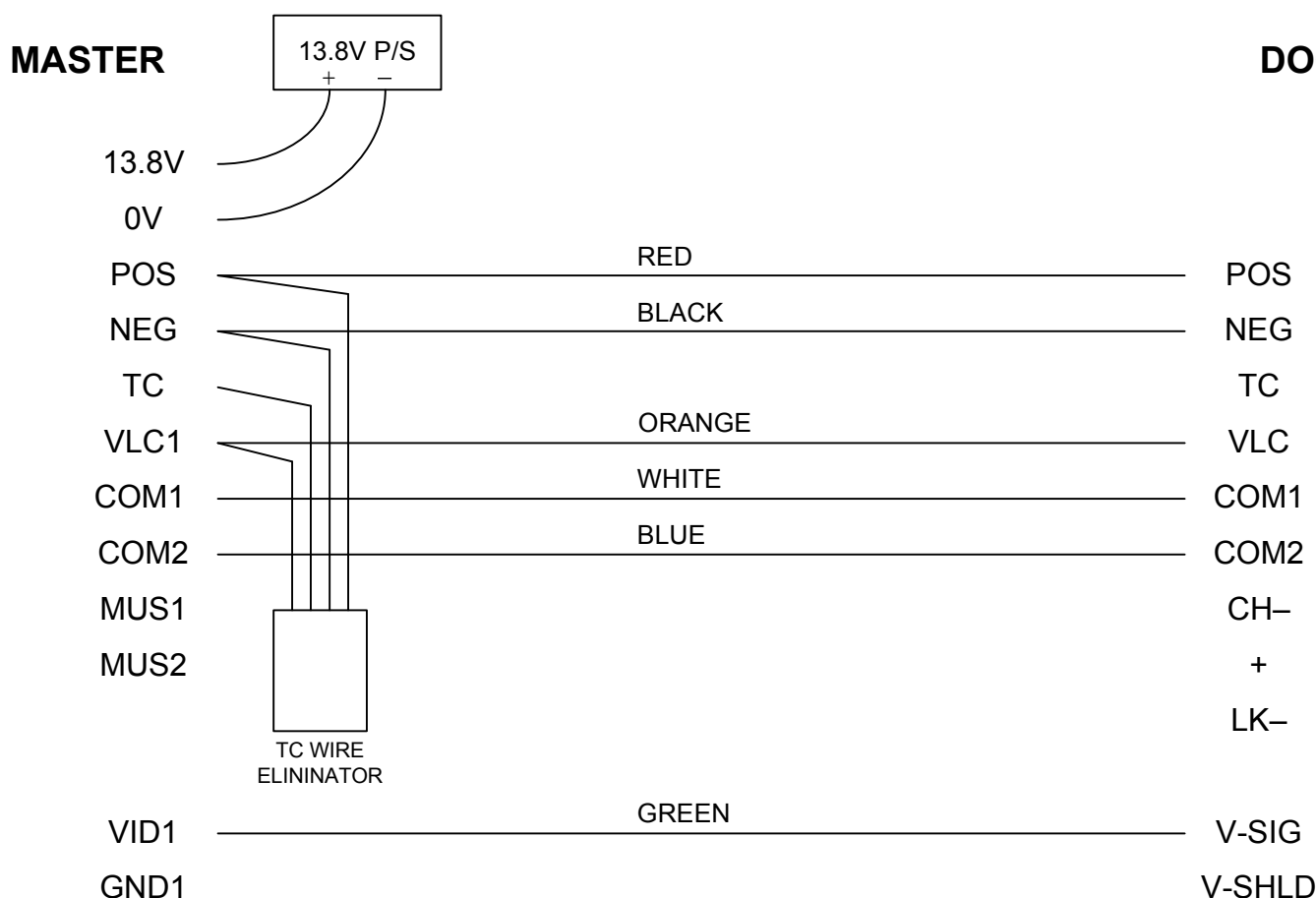
Using 6-Core Cable



*2 X WIRE LINKS ARE
FITTED AT MASTER ONLY

CONNECTIONS – M200 MASTER TO VIDEO DOOR STN #1

Using 6-Core Cable (Option #1)



Notes:

It is important to strictly adhere to the above format for optimum performance

Cable Requirement:

- 1 x 6-Core Cable (for intercom and video operation)
- 1 x TC Wire Eliminator Module (P/N: 110-001)

Maximum Distance: 40M (Using this cable configuration with video door station)

*For longer distances an additional power source will be required at the door station.

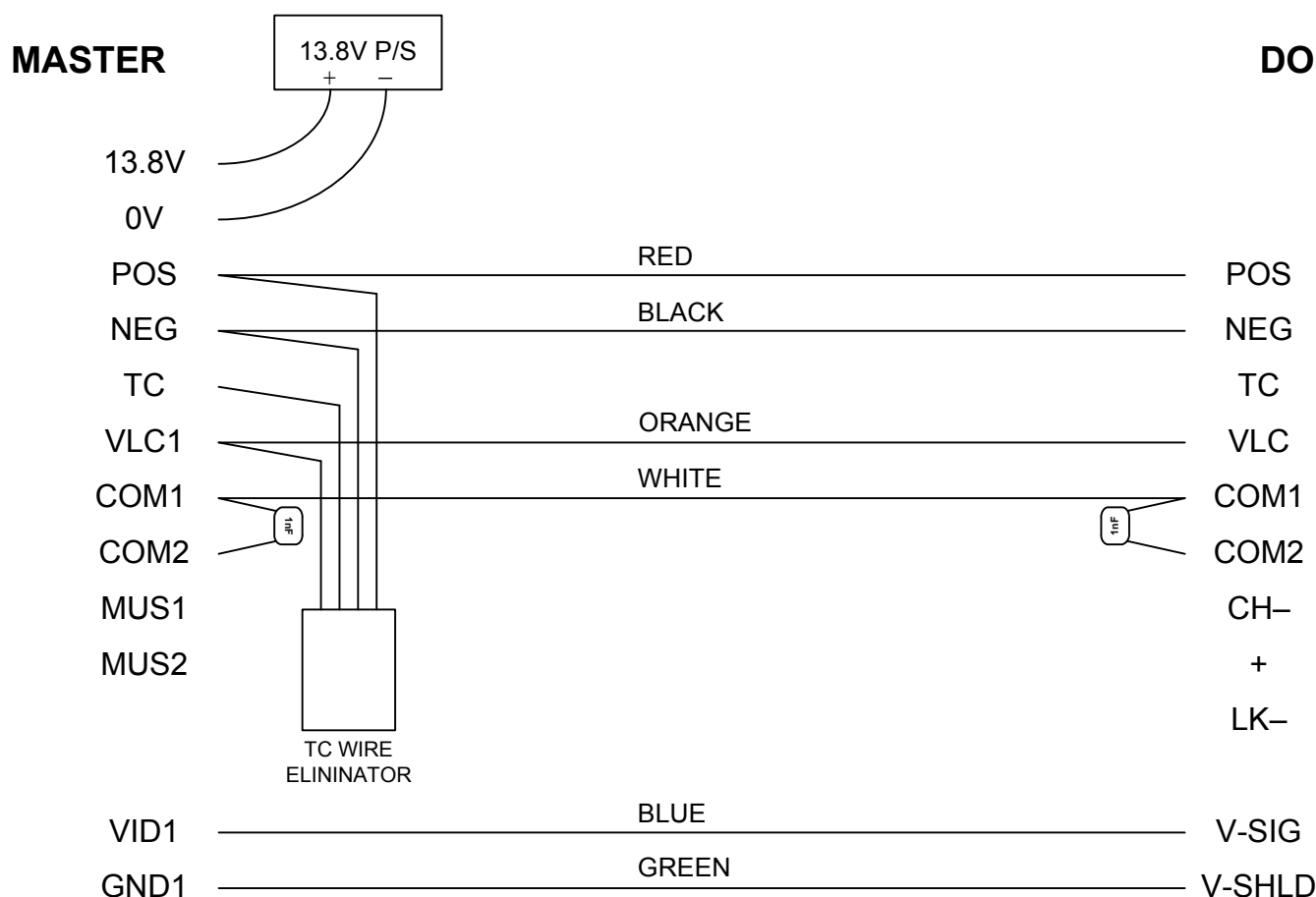
***Note:** This configuration is a compromise and may result in degraded video performance.
If video performance is unacceptable, try Option #2 (on next page) instead.

IMPORTANT:

The type and number of wires used for POS and NEG are always to be balanced.

CONNECTIONS – M200 MASTER TO VIDEO DOOR STN #1

Using 6-Core Cable (Option #2)



Notes:

It is important to strictly adhere to the above format for optimum performance

Cable Requirement:

- 1 x 6-Core Cable (for intercom and video operation)
- 1 x TC Wire Eliminator Module (P/N: 110-001)
- 2 x 1nF capacitors (102 marking - monolithic or ceramic)

Maximum Distance: 40M (Using this cable configuration with video door station)

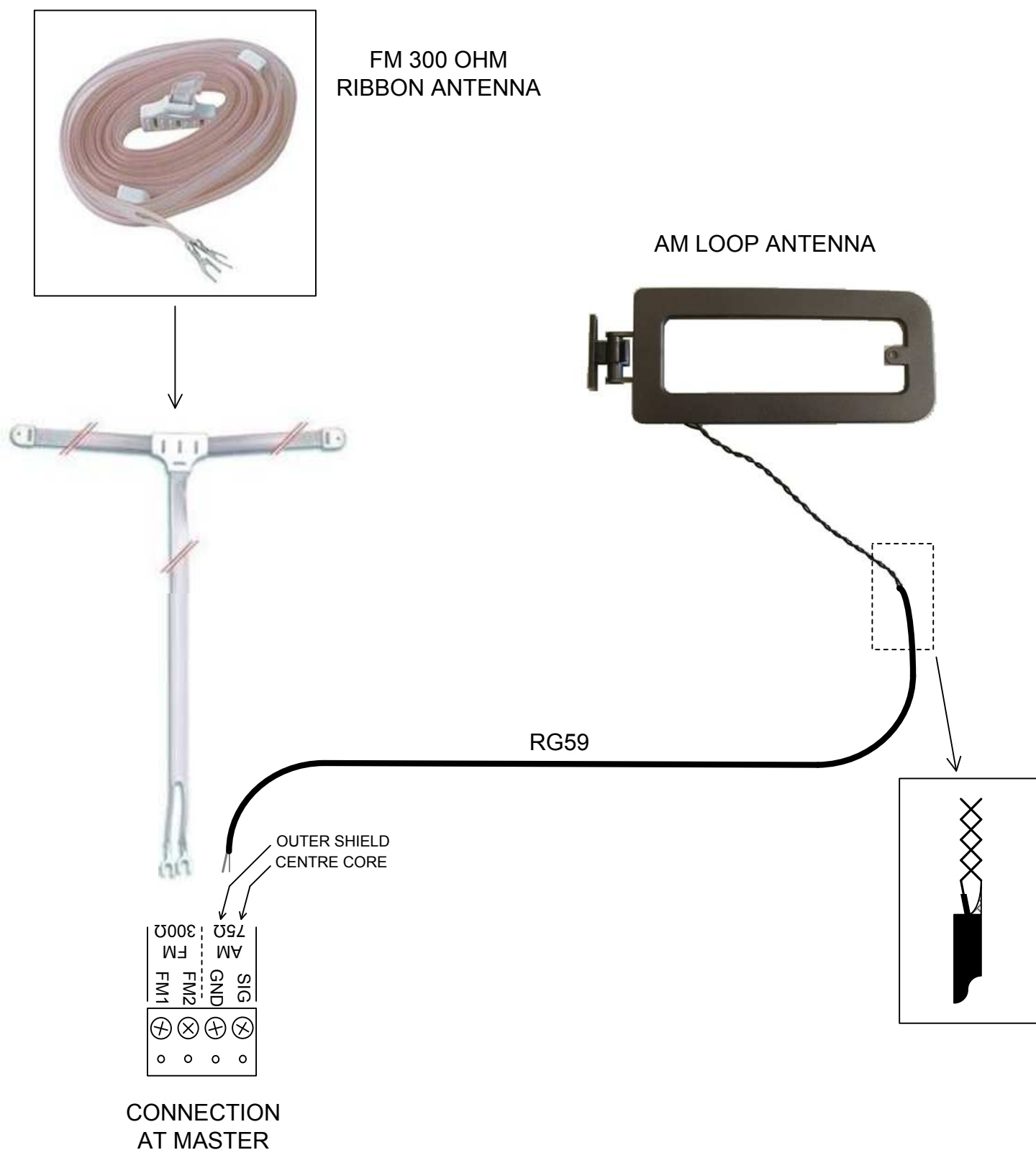
*For longer distances an additional power source will be required at the door station.

***Note:** This configuration is a compromise and may result in degraded audio performance. If audio performance is unacceptable, a choice will need to be made between Option #1 or Option #2.

IMPORTANT:

The type and number of wires used for POS and NEG are always to be balanced.

CONNECTIONS – AM & FM ANTENNAS



PROGRAMMING

All stations need to be programmed to “6-Wire” mode.

For the purpose of calling individual (or groups of) stations, stations can be programmed to different numbers (from 1 to 7)

All stations including master are programmed to #1 by default.

To program the master station:

Press PRIV and MON buttons at the same time to enter program mode
- The GENERAL OPTIONS menu should appear on the video screen

Arrow down to “8 WIRE” (using LOCK button)

Press the VOLUME + button to change from “8 WIRE” to “6 WIRE”

Press CLEAR to exit program mode

*Normally, master is left at default station number (#1)

To program room stations (the following must be done at each room station):

Press PRIV and MON buttons at the same time to enter program mode.

- Green LED should be ON (indicating 8-Wire mode) and Red LED should repeatedly flash once (indicating room station is programmed to station number 1)

Press HOUSE button to change to 6-Wire mode (Green LED will turn off)

Press desired number (from 2 to 7)

- Red LED will repeatedly flash programmed number
i.e. if programmed to #3, Red LED will repeatedly flash 3 times.

Press CLR to exit program mode

Note: For systems with a master and more than 6 room stations, multiple stations can be programmed to the same number (i.e. stations in a common area)

Alternately, the system can be programmed to Double Digit mode allowing each station to have its own two digit identification.

(See M200 installation manual for further detail)

6 WIRE OPERATION HOW IT WORKS

- Programming for 6-wire is required to shift functions associated with the music wires to the intercom wires.
- The master station and each individual room station have to be programmed for 6 wire.
- Music (whether radio or input jack) and monitor function are normally handled by the music pair (MUS1 and MUS2).
- Programming to 6-wire moves these functions to the intercom pair (COM1 & COM2).
- If music or monitoring function is not being used, programming for 6-wire becomes optional.

FAULT FINDING

- If a 6-wire system has no music at room stations (but music works at the master), make sure that the 2 wire links have been fitted at the master between COM1 & MUS1 and between COM2 and MUS2.
- If there's no comms to room stations, it's very important that VLC from all the rooms wires to the VLC terminal at the master (not VLC1).
- Only VLC from the door door station is wired into **VLC1** at the master.

ANSWERING A DOOR CALL

When the Doorbell button is pressed at the front door station, the electronic chime is heard at all stations.

- To talk to the front door station, press and hold the DOOR button at the master station or any room station. The green light will turn on indicating your microphone is active. Talk at a normal level then release the DOOR button to listen for a reply.
- To hold a conversation, press and hold the DOOR button to talk and release to listen.
- In a system with video, the door camera image appears on the master or video room station during a call and automatically turns off 20 seconds after the DOOR button is released.
- Communication from the front door station will automatically cancel 20 seconds after the DOOR button is released.

You can also manually cancel a call by pressing the CLEAR button.

The visitor does not need to press any buttons to reply. All replies are hands free.

TO CALL THE DOOR STATION

You can also initiate a call to the door station (for example if you know somebody is at the door but they haven't pressed the call button.) Or you may want to start a door call to listen to the door station.

• Systems with one Door Station

At the master station or any room station simply press DOOR once to start a door call. Same as Answering A Call, release the DOOR button to listen and press to speak.

• Systems with more than one Door Station

TO CALL DOOR No.	From the MASTER STATION	From a ROOM STATION
1	Press DOOR + 1	Press DOOR one short + one long*
2	Press DOOR + 2	Press DOOR two short + one long*
3	Press DOOR + 3	Press DOOR three short + one long*

* The short presses tell the Master which door station is being called then the long press starts the call.

TO ACTIVATE THE LOCK OUTPUT

Press and release the  button at the master or a room station while communicating with the door station.

Note1. The LOCK button is only active during a voice or video call to the door station.

Note2. In a system with multiple door stations this activates the LK output of the door station with which you are currently communicating.



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