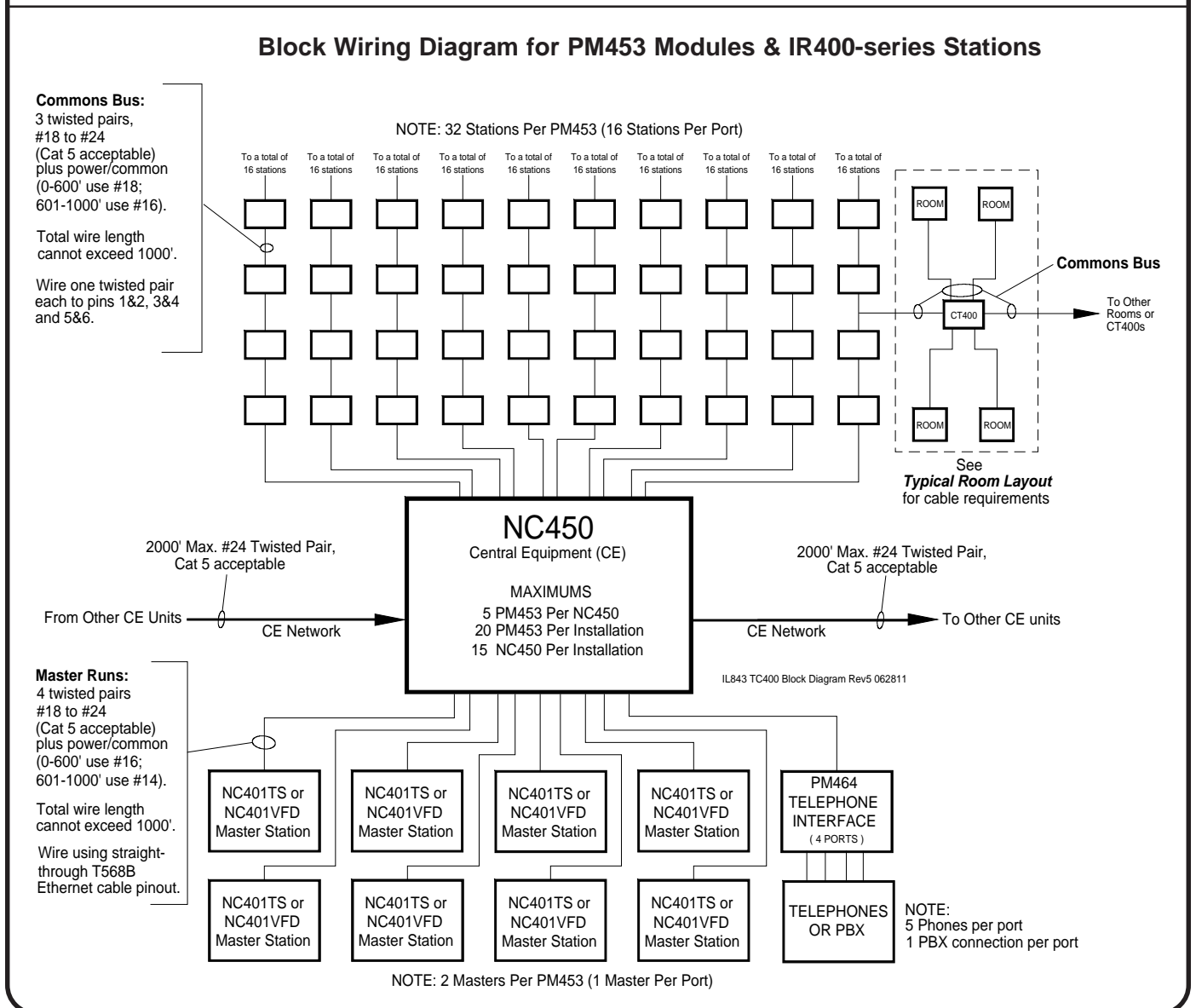
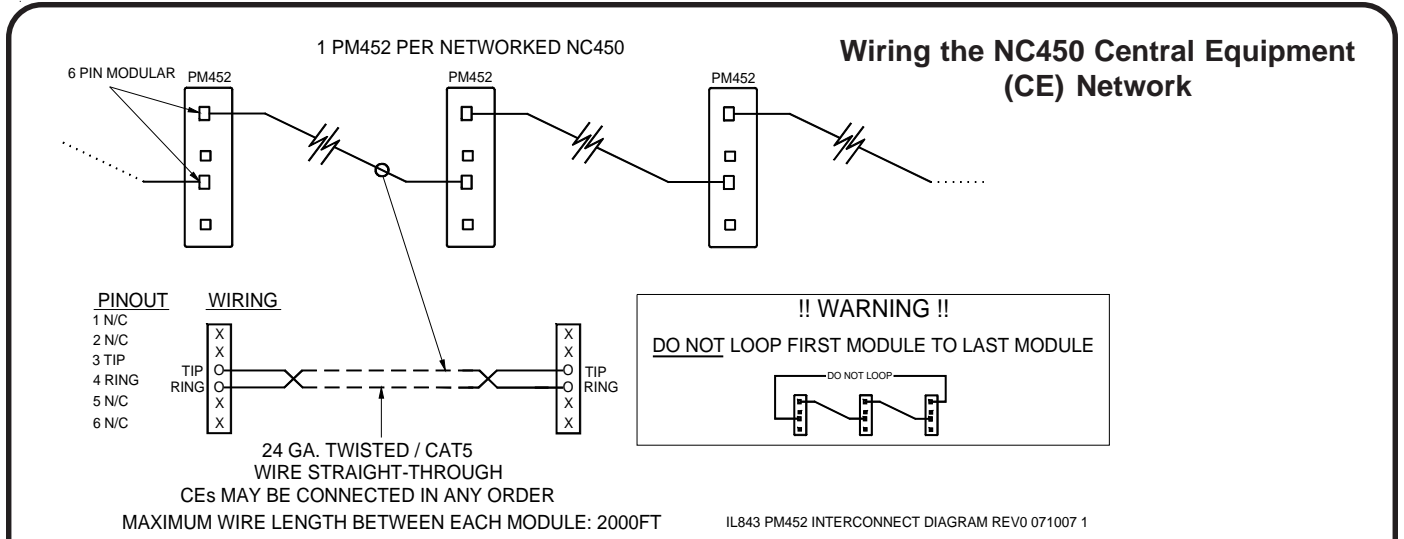
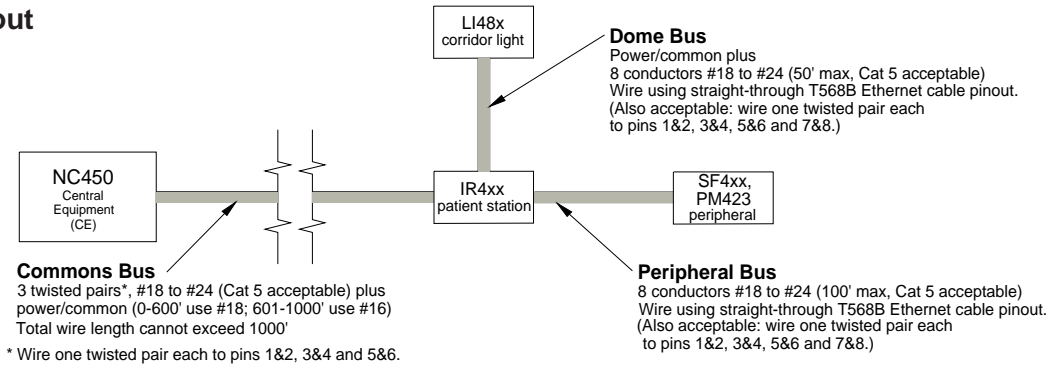


These Block Wiring Diagrams are a subset of IL843M Rev. 7 - 07/2011, and are provided for quotation purposes only. Refer to the manual for complete wiring and installation instructions.



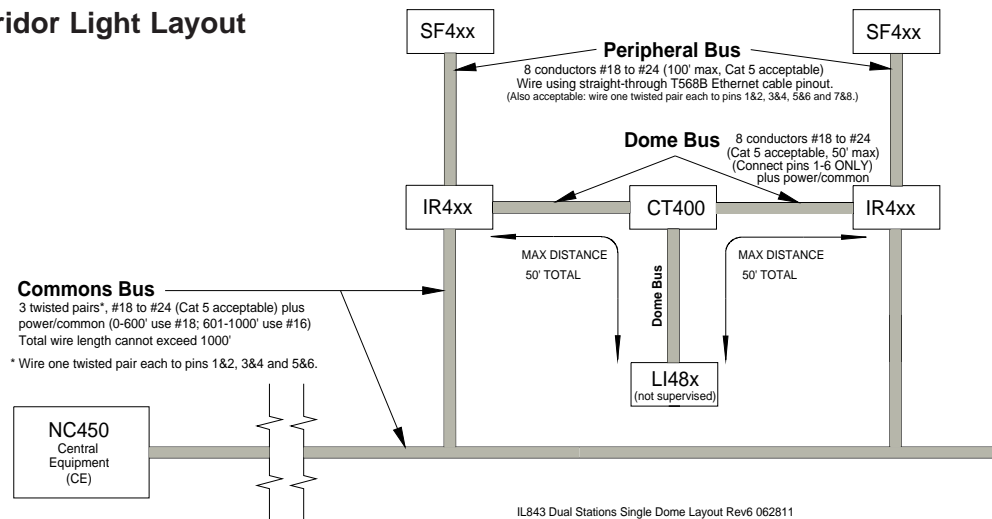
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### Typical Room Layout



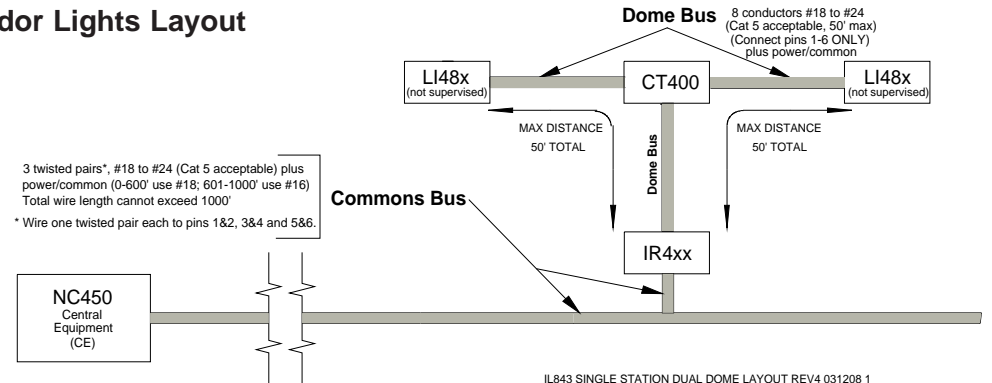
IL843 Typical Room Layout Rev9 062811

### Two Stations, One Corridor Light Layout



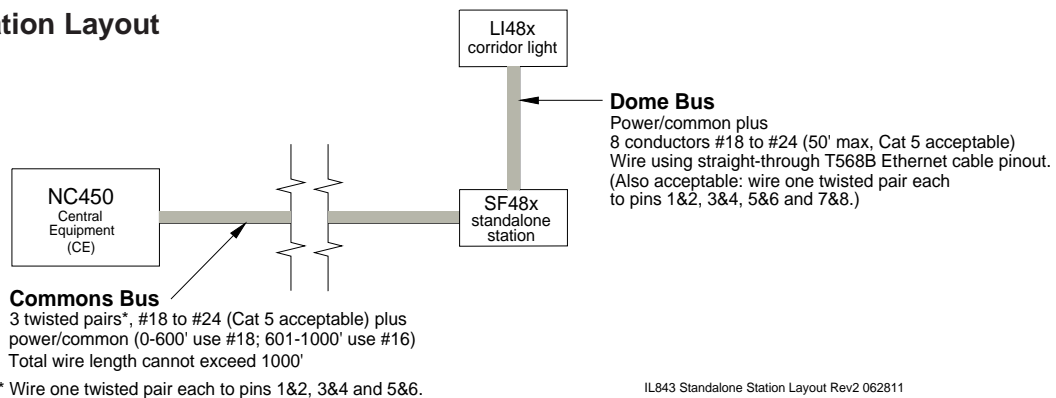
IL843 Dual Stations Single Dome Layout Rev6 062811

### One Station, Two Corridor Lights Layout



IL843 SINGLE STATION DUAL DOME LAYOUT REV4 031208 1

### Standalone Station Layout



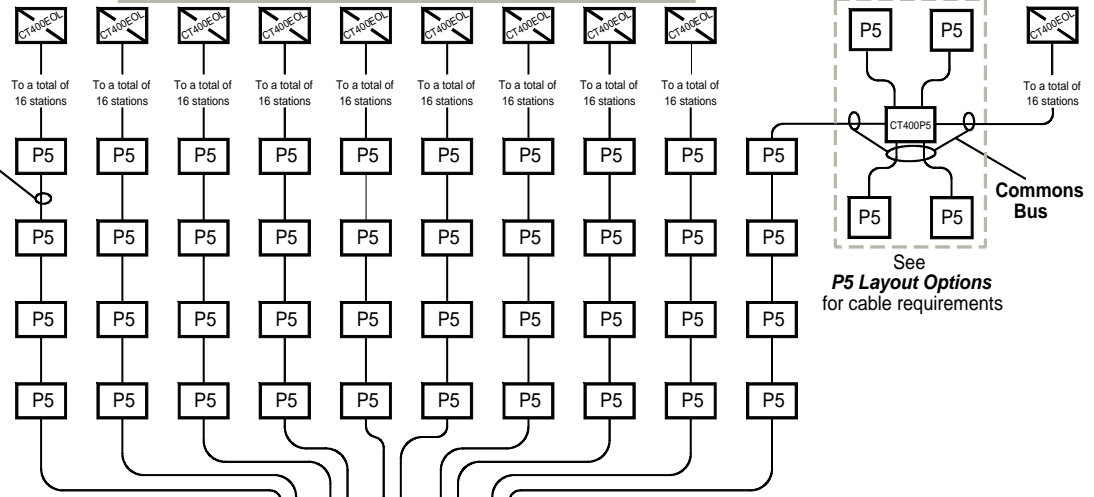
IL843 Standalone Station Layout Rev2 062811

## Block Wiring Diagram for PM455 Modules & P5 Stations

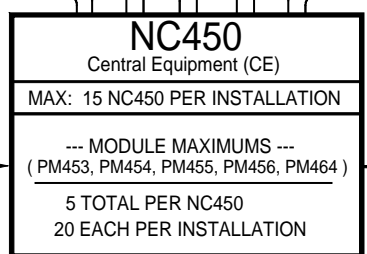
**DIAGRAM FOR P5-SERIES USE ONLY !!**

64 Stations Per PM455 (16 Stations Per CONNECTOR)  
Install 1 CT400EOL per run - at most distant point in cable run.

**Commons Bus:**  
4 twisted pairs,  
#18 to #24  
(CAT5 acceptable)  
  
Total wire length  
cannot exceed 1000'  
  
Wire using straight-  
through T568B  
Ethernet cable pinout.  
(Also acceptable:  
Wire one twisted pair  
each to pins 1&2, 3&4  
5&6 and 7&8.)



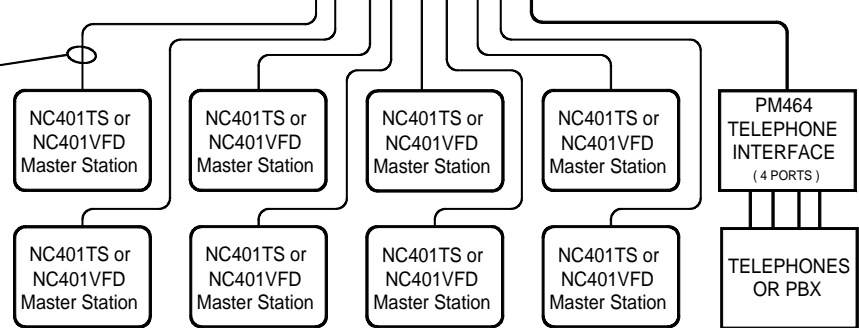
See P5 Layout Options for cable requirements



2000' Max. #24 Twisted Pair,  
Cat 5 acceptable  
  
From Other CE Units → CE Network

2000' Max. #24 Twisted Pair,  
Cat 5 acceptable  
  
CE Network → To Other CE units

**Master Runs:**  
4 twisted pairs  
#18 to #24  
(Cat 5 acceptable)  
plus power/common  
(0-600' use #16;  
601-1000' use #14).  
  
Total wire length  
cannot exceed 1000'.  
  
Wire using straight-  
through T568B  
Ethernet cable pinout.



2 Masters Per PM455 (1 Master Per Port)

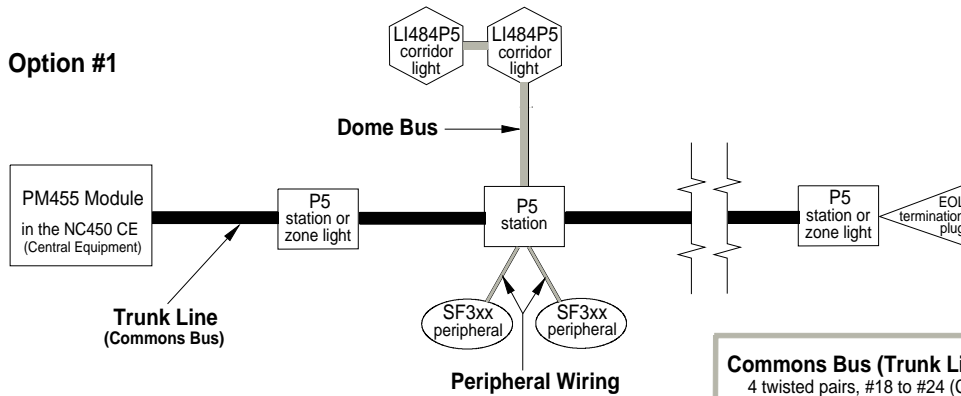
### T568B Straight-Through Ethernet Cable Pinout

- Used for all Tek-CARE® 400 8P8C wiring:
- PM453, PM455 & PM456 Master Runs
  - PM453 Dome Bus
  - PM453 Peripheral Bus
  - PM455 P5 Commons Bus

8P8C Pin #	Wire Color (T568B)
1	White/Orange
2	Orange
3	White/Green
4	Blue
5	White/Blue
6	Green
7	White/Brown
8	Brown

## Layout Options for P5 Station Runs (PM455)

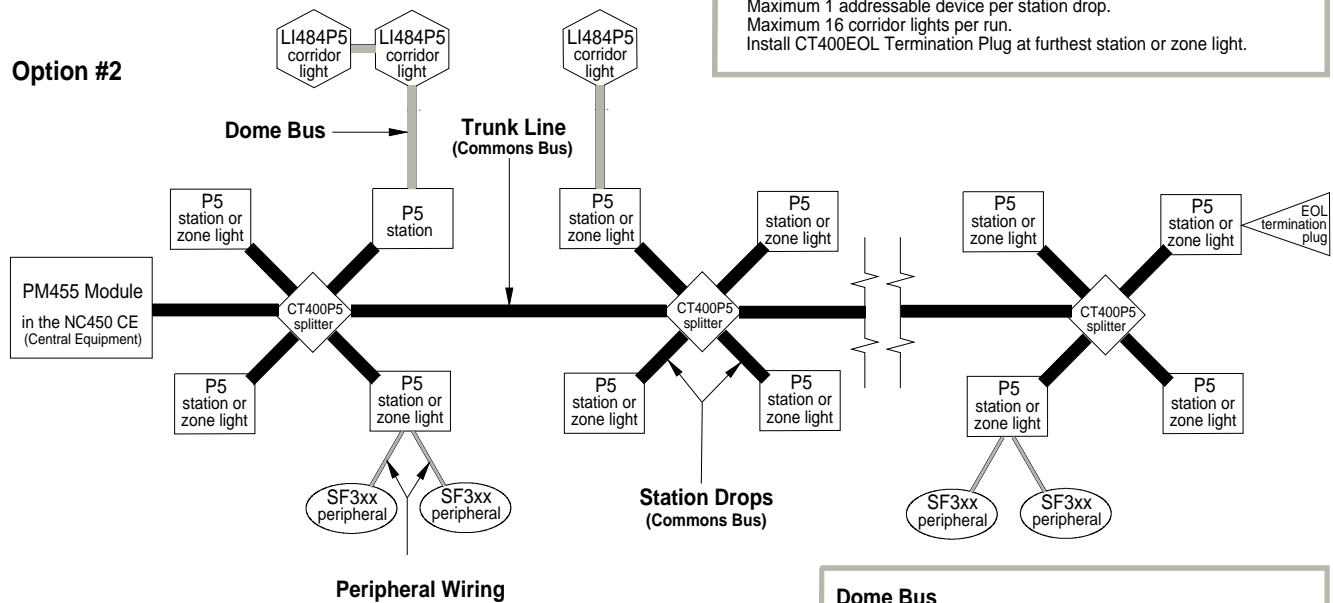
### Option #1



#### Commons Bus (Trunk Line + Station Drops)

4 twisted pairs, #18 to #24 (Cat 5 acceptable)  
 Wire using straight-through T568B Ethernet cable pinout.  
 (Also acceptable: wire one twisted pair each to pins 1&2, 3&4, 5&6 and 7&8.)  
 Maximum 1000' total wire for trunk line plus all station drops.  
 Maximum 16 addressable devices (stations & zone lights) per run.  
 Maximum 1 addressable device per station drop.  
 Maximum 16 corridor lights per run.  
 Install CT400EOL Termination Plug at furthest station or zone light.

### Option #2



#### Dome Bus

6 conductors #18 to #24 (Cat 5 acceptable)  
 Wire one twisted pair each to pins 1&2, 3&4 and 5&6.  
 Maximum 2 dome lights per station, maximum 50' total wire.

#### Peripheral Wiring

#22 (2, 3 or 6 conductors, depending on switch type.)  
 Maximum 50' wire per peripheral.

### Option #3

