

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
| 211 | 210 | 183 | 182 | 155 | 154 | 127 | 126 | 99  | 98 | 71 | 70 | 43 | 42 | 15 | 14 |
| 212 | 209 | 184 | 181 | 156 | 153 | 128 | 125 | 100 | 97 | 72 | 69 | 44 | 41 | 16 | 13 |
| 213 | 208 | 185 | 180 | 157 | 152 | 129 | 124 | 101 | 96 | 73 | 68 | 45 | 40 | 17 | 12 |
| 214 | 207 | 186 | 179 | 158 | 151 | 130 | 123 | 102 | 95 | 74 | 67 | 46 | 39 | 18 | 11 |
| 215 | 206 | 187 | 178 | 159 | 150 | 131 | 122 | 103 | 94 | 75 | 66 | 47 | 38 | 19 | 10 |
| 216 | 205 | 188 | 177 | 160 | 149 | 132 | 121 | 104 | 93 | 76 | 65 | 48 | 37 | 20 | 9  |
| 217 | 204 | 189 | 176 | 161 | 148 | 133 | 120 | 105 | 92 | 77 | 64 | 49 | 36 | 21 | 8  |
| 218 | 203 | 190 | 175 | 162 | 147 | 134 | 119 | 106 | 91 | 78 | 63 | 50 | 35 | 22 | 7  |
| 219 | 202 | 191 | 174 | 163 | 146 | 135 | 118 | 107 | 90 | 79 | 62 | 51 | 34 | 23 | 6  |
| 220 | 201 | 192 | 173 | 164 | 145 | 136 | 117 | 108 | 89 | 80 | 61 | 52 | 33 | 24 | 5  |
| 221 | 200 | 193 | 172 | 165 | 144 | 137 | 116 | 109 | 88 | 81 | 60 | 53 | 32 | 25 | 4  |
| 222 | 199 | 194 | 171 | 166 | 143 | 138 | 115 | 110 | 87 | 82 | 59 | 54 | 31 | 26 | 3  |
| 223 | 198 | 195 | 170 | 167 | 142 | 139 | 114 | 111 | 86 | 83 | 58 | 55 | 30 | 27 | 2  |
| 224 | 197 | 196 | 169 | 168 | 141 | 140 | 113 | 112 | 85 | 84 | 57 | 56 | 29 | 28 | 1  |

Modules will install in order from module number 1 in increasing order until the last module. Review module cable connection on page 8.

STAX Boost Power Continuation Cable found in (Yellow Labeled Bag). Required after each 12th consecutive module per display face. Review Boost Power Cable Continuation connection on page 8.

STAX Controller Cable Kit found in (Red Labeled Bag). One cable kit per display face. Includes one Primary Controller Power Cable and one 1st Module Power/Data Cable

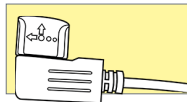
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules.

All components are auto switching between 120 and 240 Volts. Maximum Amperage per lead: 16 Amps @120V. Multiple leads can be connected together and share a breaker. Multiple circuits may share the same neutrals. Display electrical requirements per face are shown below. 9.5mm values are 6% less. Follow your local NEC Codes & regulations.

PRIMARY DISPLAY FRONTVIEW



TYP. (1)  
1st Module Power/Data Cable must be connected to first module and to STAX Controller



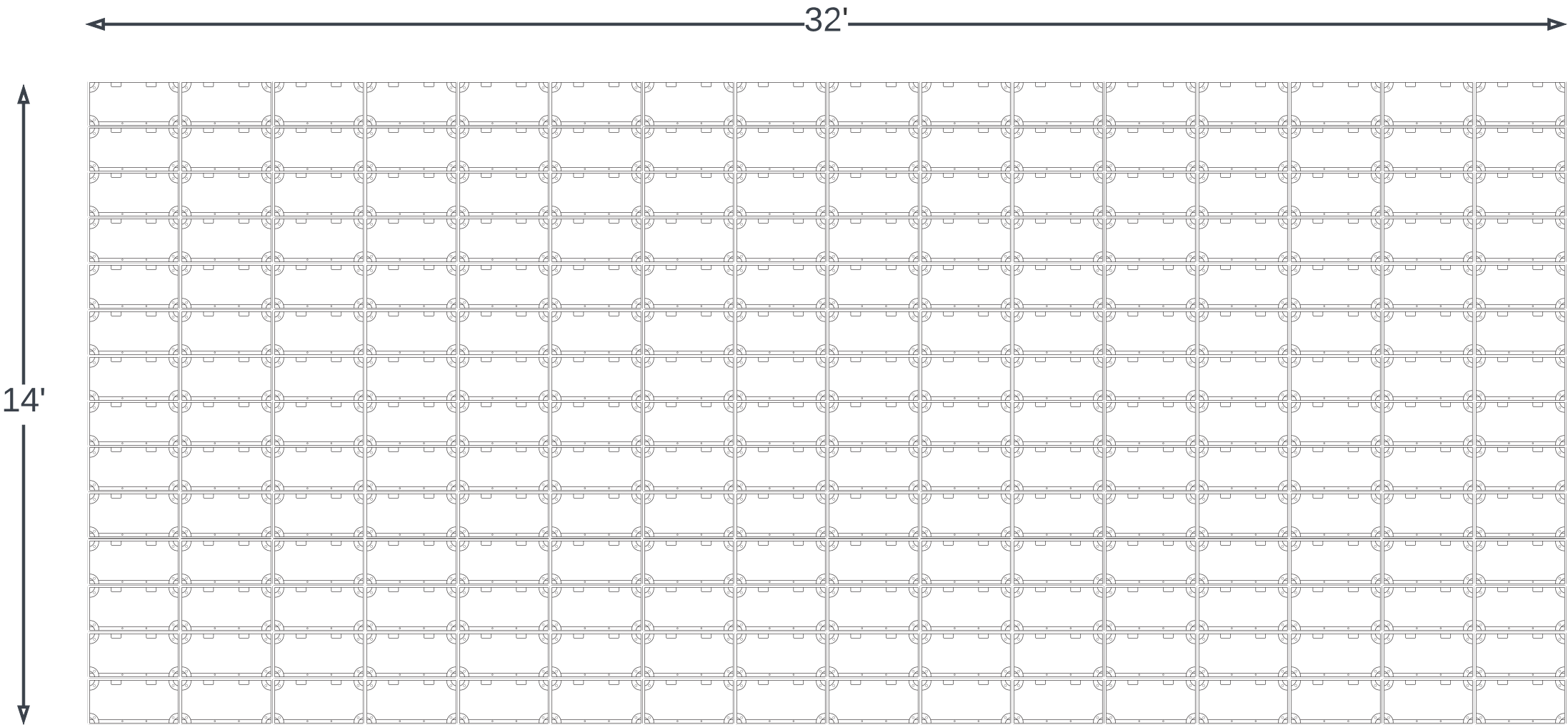
TYP. (18)  
STAX Boost Power Continuation Cable required (at maximum) after each 12th consecutive module per display face.

Additional displays of the same size will be configured identically. Unique installations of size and location may require additional engineering discussion with Next.

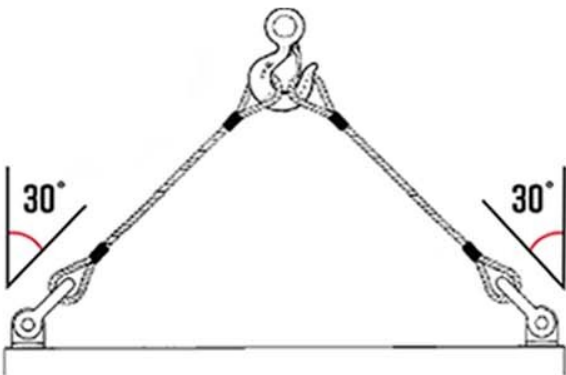


Product Conforms to  
UL STD. 48,  
UL STD. 62368-1, &  
CSA STD. C22.2 NO.  
62368\*1

| Circuit | Modules | Maximum Watts | Average Watts | Maximum Amps@120V | Maximum Amps@208V | Maximum Amps@240V |
|---------|---------|---------------|---------------|-------------------|-------------------|-------------------|
| 1       | 1 - 24  | 1872          | 992           | 15.6              | 9.0               | 7.8               |
| 2       | 25-48   | 1872          | 992           | 15.6              | 9.0               | 7.8               |
| 3       | 49-72   | 1872          | 992           | 15.6              | 9.0               | 7.8               |
| 4       | 73-96   | 1872          | 992           | 15.6              | 9.0               | 7.8               |
| 5       | 97-120  | 1872          | 992           | 15.6              | 9.0               | 7.8               |
| 6       | 121-144 | 1872          | 992           | 15.6              | 9.0               | 7.8               |
| 7       | 145-168 | 1872          | 992           | 15.6              | 9.0               | 7.8               |
| 8       | 169-192 | 1872          | 992           | 15.6              | 9.0               | 7.8               |
| 9       | 193-216 | 1872          | 992           | 15.6              | 9.0               | 7.8               |
| 10      | 217-224 | 624           | 331           | 5.2               | 3.0               | 2.6               |
| TOTAL   | 224     | 17472         | 9260          | 145.6             | 84.0              | 72.8              |



PRIMARY DISPLAY REARVIEW



**SHACKLE ATTACHMENT**  
 The shackle cables should connect to the lifting pins at an angle of 30 degrees or less to prevent damage to the cabinet frame. Spreader bar should be used when three or more lifting pins are required per face. Must lift final assembled sign with a minimum of two lifting points. Determine total number of lifting points with a 330 maximum lbs per lifting pin.

The display can be assembled with 2'x4' frames and 1'x2' frames. All frames are interchangeable. If desired, displays can use all 1'x2' frames.

| Part Description                              | Part Weight (lbs) |
|-----------------------------------------------|-------------------|
| 1' x 2' 6.3MM / 9.5MM STAX LED DISPLAY MODULE | 8.8               |
| 1' x 2' STAX LED DISPLAY FRAME                | 5.25              |
| 1' x 2' STAX LED DISPLAY FRAME DOOR           | 2.1               |
| 2' x 4' STAX LED DISPLAY FRAME                | 11.25             |
| 2' x 4' STAX LED DISPLAY FRAME DOOR           | 4.5               |
| STAX PC CONTROLLER                            | 9.6               |

Maximum weight shown shows total display weight using only 1'x2' frames and frame doors. Actual weight may be less and will be represented on the quote number purchased. Contact Next for any questions regarding dependencies

| Display Face | Maximum Weight (lbs) Including Frame Doors | Maximum (lbs) Per Lifting Pin | Number of Pins Per Face |
|--------------|--------------------------------------------|-------------------------------|-------------------------|
| 1            | 4088                                       | 330                           | 13                      |
| 2            | 8176                                       | N/A                           | N/A                     |

### LAUNCH INSTRUCTIONS

1. Assemble all frames and modules per installation instructions on page 1.
2. After all modules have been assembled, connect the controller to the first module of the display face with the 1st Module Power/Data cable found in the RED labeled cable kit bag. You will use one cable for the primary display and one cable for the secondary display. Primary power [A] is connected to primary display output [C] and secondary power [B] is connected to secondary display output [D].
3. Connect the controller primary power to a power source with the power cable found in the RED labeled kit bag.
4. Power-up the primary power source for the controller box. On initial powerup the successful sequence on the display will appear as:

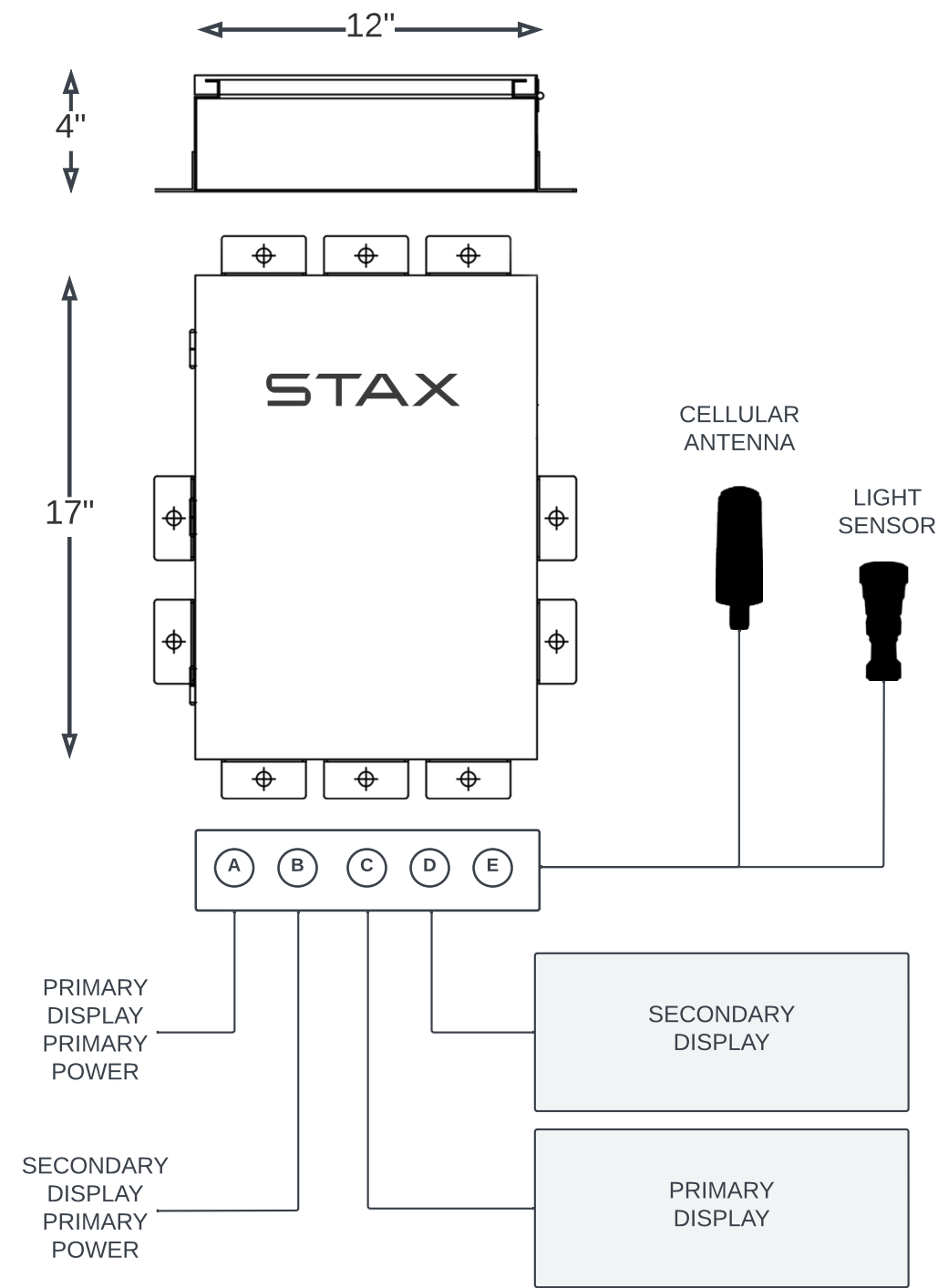
1) Flash of light

2) Black screen

3) Blue screen

4) Logo screen

5) Black screen
5. Contact Next (833-474-STAX) for final configuration and software connection. We will remotely work with your technician and configure the display in under 10 minutes.



Each display face requires a controller cable kit consisting of one primary power cable and one display connection cable.

Each primary power connection is an independent circuit. For smaller displays, the Primary and Secondary display power connection can share a circuit. Confirm loads and all electrical details prior to installation.

Cellular Antenna, with mounting bracket, is included and ready for installation. Light Sensor, with mounting bracket, is included and ready for installation. They are connected through Input [E].

Lifetime installation support and software training are available prior to, during, and after the installation of display.

Mounting brackets and screws are included. There are multiple bracket installation positions available. Not all are required to be used. Do not puncture or modify the control box without approval from Next.

For installations requiring direct Cat5e connections or wireless point to point antennas, please contact Next to confirm parts and installation method.

| PIXEL PITCH | PIXEL HEIGHT | PIXEL WIDTH |
|-------------|--------------|-------------|
| 6mm         | 672          | 1536        |
| 9mm         | 448          | 1024        |



PARTS AND PACKAGING

| PARTS LIST                |                                               |                                   |             |             |
|---------------------------|-----------------------------------------------|-----------------------------------|-------------|-------------|
| PART NUMBER               | PART DESCRIPTION                              | QUANTITY REQUIREMENTS             | SINGLE FACE | DOUBLE FACE |
| 1701-MODULE / 1700-MODULE | 1' x 2' 6.3MM / 9.5MM STAX LED DISPLAY MODULE |                                   | 224         | 448         |
| 3700-CONTROL              | STAX LED DISPLAY CONTROLLER                   | 1 PER DOUBLE FACE DISPLAY         | 1           | 1           |
| 1780-CONTROL              | STAX CONTROLLER CABLE KIT                     | 1 PER FACE                        | 1           | 1           |
| 1772-MODULE               | STAX BOOST POWER CONTINUATION CABLE           | 1 PER EACH 12 MODS STARTING AT 13 | 18          | 36          |
| 0712-CABINET              | STAX CONTROLLER MOUNTING PLATE                | 1 PER STAX CONTROLLER             | 1           | 1           |

| CRATE PACKAGING          |                                               |                    |                       |     |
|--------------------------|-----------------------------------------------|--------------------|-----------------------|-----|
| PART NUMBER              | PART DESCRIPTION                              | QUANTITY PER CRATE | CRATE SIZE WxLxH (In) | CBM |
| 1701-MODULE/ 1700-MODULE | 1' x 2' 6.3MM / 9.5MM STAX LED DISPLAY MODULE | 12                 | 29x27x27              | .41 |
| 0770-CABINET             | 1' x 2' STAX LED DISPLAY FRAME                | 12                 | 29x27x27              | .41 |
| 0771-CABINET             | 1' x 2' STAX LED DISPLAY FRAME DOOR           | 40                 | 35x25x28              | .75 |
| 0772-CABINET             | 2' x 4' STAX LED DISPLAY FRAME                | 6                  | 51x28x31              | .40 |
| 0773-CABINET             | 2' x 4' STAX LED DISPLAY FRAME DOORS          | 25                 | 46x25x28              | .54 |

AND

| OPTION 1: MIXED FRAME ASSEMBLY |                                     |                            |             |             |
|--------------------------------|-------------------------------------|----------------------------|-------------|-------------|
| PART NUMBER                    | PART DESCRIPTION                    | QUANTITY REQUIREMENTS      | SINGLE FACE | DOUBLE FACE |
| 0770-CABINET                   | 1' x 2' STAX LED DISPLAY FRAME      | 1 FRAME SUPPORTS 1 MODULE  | 0           | 0           |
| 0771-CABINET                   | 1' x 2' STAX LED DISPLAY FRAME DOOR | 1 DOOR PER FRAME           | 0           | 0           |
| 0772-CABINET                   | 2' x 4' STAX LED DISPLAY FRAME      | 1 FRAME SUPPORTS 4 MODULES | 56          | 112         |
| 0773-CABINET                   | 2' x 4' STAX LED DISPLAY FRAME DOOR | 2 DOORS PER FRAME          | 112         | 224         |

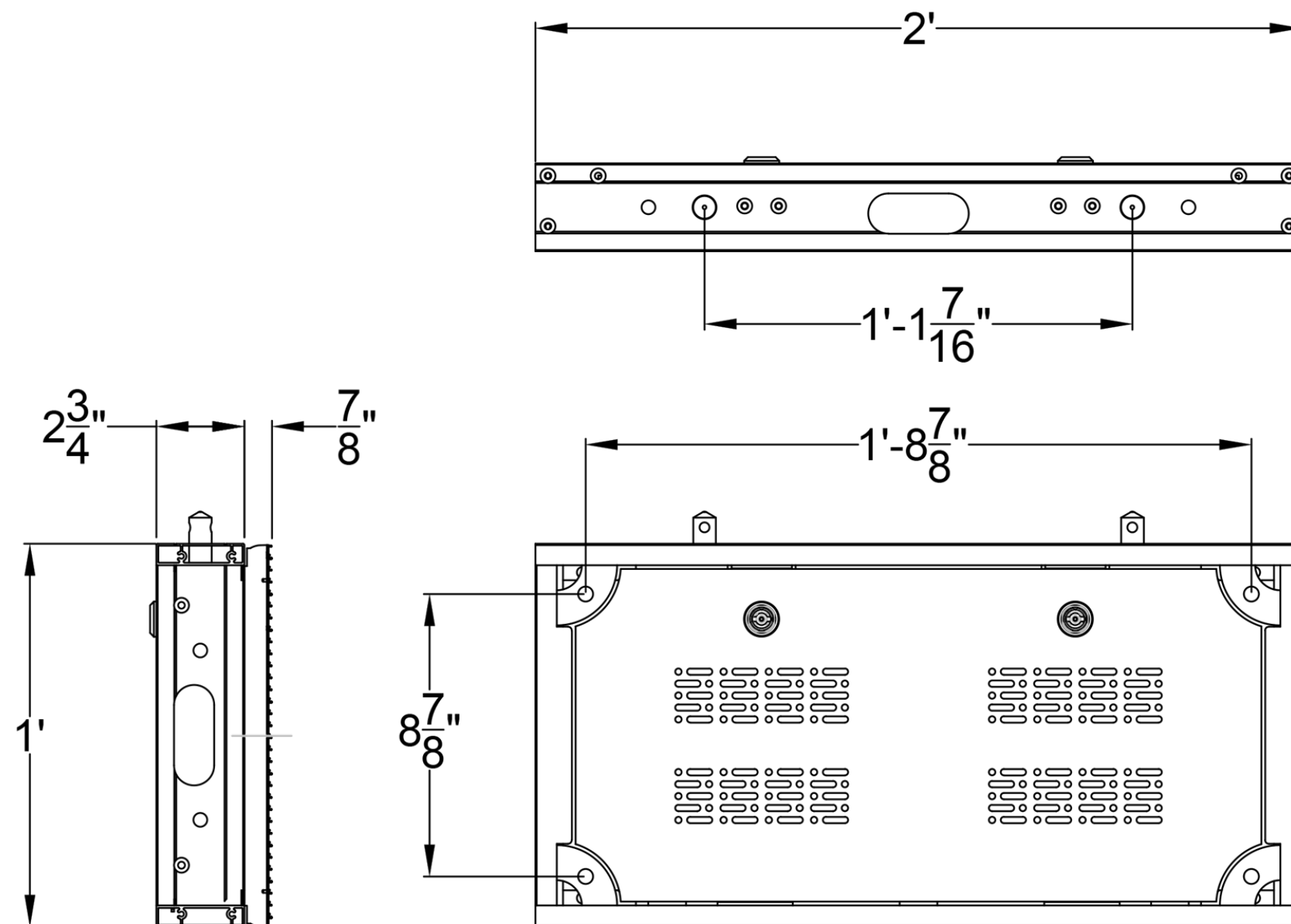
OR

| OPTION 2: SINGLE FRAME ONLY ASSEMBLY |                                     |                            |             |             |
|--------------------------------------|-------------------------------------|----------------------------|-------------|-------------|
| PART NUMBER                          | PART DESCRIPTION                    | QUANTITY REQUIREMENTS      | SINGLE FACE | DOUBLE FACE |
| 0770-CABINET                         | 1' x 2' STAX LED DISPLAY FRAME      | 1 FRAME SUPPORTS 1 MODULE  | 224         | 448         |
| 0771-CABINET                         | 1' x 2' STAX LED DISPLAY FRAME DOOR | 1 DOOR PER FRAME           | 224         | 448         |
| 0772-CABINET                         | 2' x 4' STAX LED DISPLAY FRAME      | 1 FRAME SUPPORTS 4 MODULES | 0           | 0           |
| 0773-CABINET                         | 2' x 4' STAX LED DISPLAY FRAME DOOR | 2 DOORS PER FRAME          | 0           | 0           |

# 1' X 2' MODULE FRAME

The display can be assembled with 2'x4' frames and 1'x2' frames. All frames are interchangeable. If desired, displays can use all 1'x2' frames.

Four hole frame steel connection plates are not required for assembly and provided for flexibility in installation solutions.



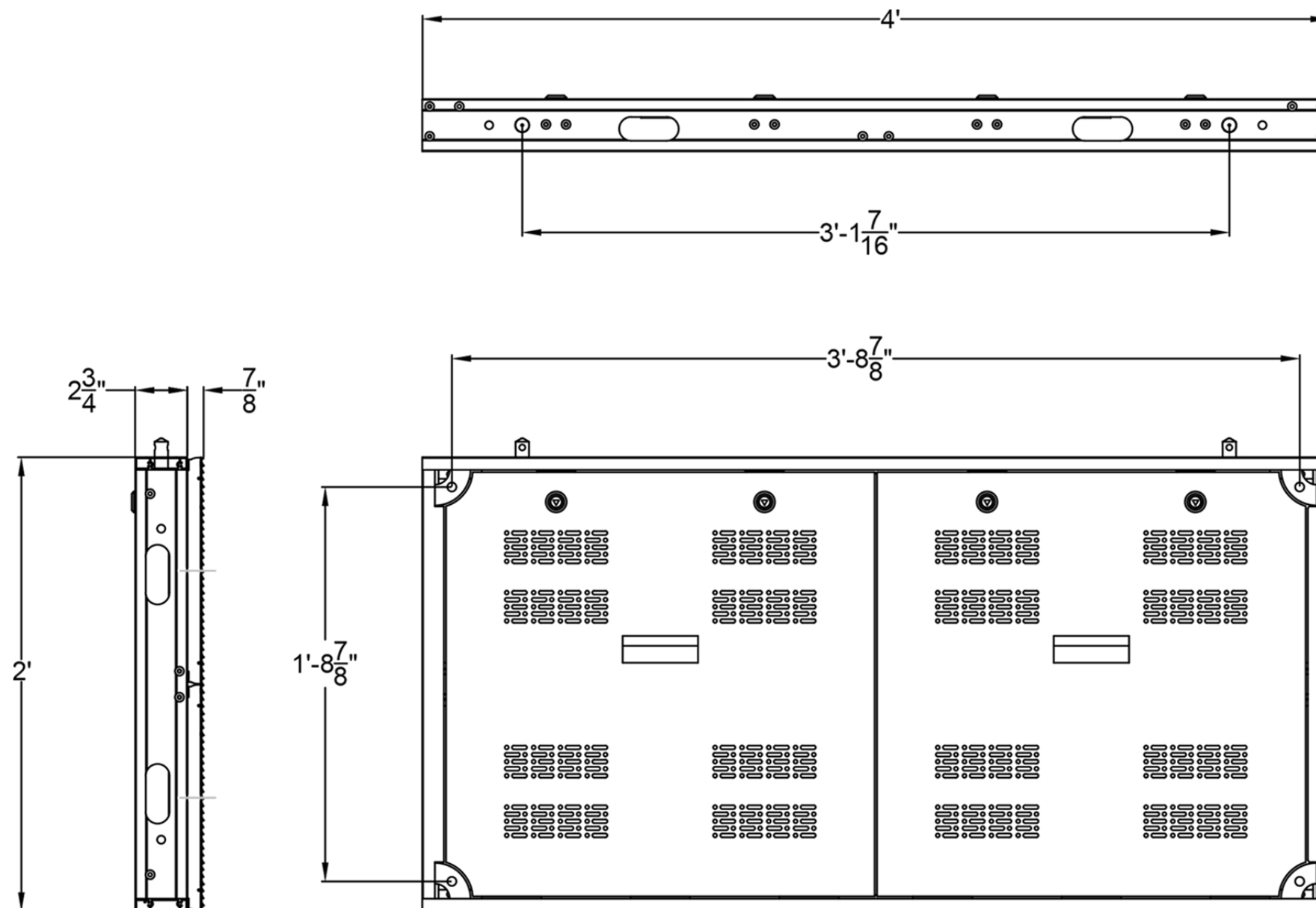
| PARTS INCLUDED WITH EACH FRAME          |          |
|-----------------------------------------|----------|
| PART                                    | QUANTITY |
| 12mm Bolts                              | 6        |
| 12mm washers                            | 4        |
| 12mm nuts                               | 4        |
| Four hole frame steel connection plates | 1        |

| RECOMMENDED TOOLS FOR ASSEMBLY                    |  |
|---------------------------------------------------|--|
| PART                                              |  |
| Impact Drill                                      |  |
| 19mm Socket                                       |  |
| 19mm Wrench                                       |  |
| Allen Wrench Tool<br>(Provided in Controller Box) |  |

## 2' X 4' MODULE FRAME

The display can be assembled with 2'x4' frames and 1'x2' frames. All frames are interchangeable. If desired, displays can use all 1'x2' frames.

Four hole frame steel connection frames are not required for assembly and provided for flexibility in installation solutions.



| PARTS INCLUDED WITH EACH FRAME          |          |
|-----------------------------------------|----------|
| PART                                    | QUANTITY |
| 12mm Bolts                              | 6        |
| 12mm washers                            | 4        |
| 12mm nuts                               | 4        |
| Four hole frame steel connection plates | 1        |

| RECOMMENDED TOOLS FOR ASSEMBLY                    |  |
|---------------------------------------------------|--|
| PART                                              |  |
| Impact Drill                                      |  |
| 19mm Socket                                       |  |
| 19mm Wrench                                       |  |
| Allen Wrench Tool<br>(Provided in Controller Box) |  |



# REDUNDANCY

Redundancy is a special order installation that requires a custom order cable. Next supplies this cable directly to the installer separate from traditional product orders.

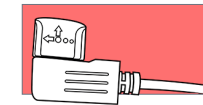
When redundancy is utilized it requires the primary and secondary displays to be configured using only one 1st Module Power/Data Cable connected to the primary display. The secondary display will be connected in series with a Boost Power Connection Cable from the last module of the primary display to the first module of the secondary display.

The Redundancy Cable will be connected to the last module on the secondary display, or primary display if there is only one face.

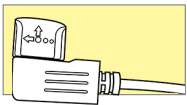
|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
| 211 | 210 | 183 | 182 | 155 | 154 | 127 | 126 | 99  | 98 | 71 | 70 | 43 | 42 | 15 | 14 |
| 212 | 209 | 184 | 181 | 156 | 153 | 128 | 125 | 100 | 97 | 72 | 69 | 44 | 41 | 16 | 13 |
| 213 | 208 | 185 | 180 | 157 | 152 | 129 | 124 | 101 | 96 | 73 | 68 | 45 | 40 | 17 | 12 |
| 214 | 207 | 186 | 179 | 158 | 151 | 130 | 123 | 102 | 95 | 74 | 67 | 46 | 39 | 18 | 11 |
| 215 | 206 | 187 | 178 | 159 | 150 | 131 | 122 | 103 | 94 | 75 | 66 | 47 | 38 | 19 | 10 |
| 216 | 205 | 188 | 177 | 160 | 149 | 132 | 121 | 104 | 93 | 76 | 65 | 48 | 37 | 20 | 9  |
| 217 | 204 | 189 | 176 | 161 | 148 | 133 | 120 | 105 | 92 | 77 | 64 | 49 | 36 | 21 | 8  |
| 218 | 203 | 190 | 175 | 162 | 147 | 134 | 119 | 106 | 91 | 78 | 63 | 50 | 35 | 22 | 7  |
| 219 | 202 | 191 | 174 | 163 | 146 | 135 | 118 | 107 | 90 | 79 | 62 | 51 | 34 | 23 | 6  |
| 220 | 201 | 192 | 173 | 164 | 145 | 136 | 117 | 108 | 89 | 80 | 61 | 52 | 33 | 24 | 5  |
| 221 | 200 | 193 | 172 | 165 | 144 | 137 | 116 | 109 | 88 | 81 | 60 | 53 | 32 | 25 | 4  |
| 222 | 199 | 194 | 171 | 166 | 143 | 138 | 115 | 110 | 87 | 82 | 59 | 54 | 31 | 26 | 3  |
| 223 | 198 | 195 | 170 | 167 | 142 | 139 | 114 | 111 | 86 | 83 | 58 | 55 | 30 | 27 | 2  |
| 224 | 197 | 196 | 169 | 168 | 141 | 140 | 113 | 112 | 85 | 84 | 57 | 56 | 29 | 28 | 1  |

| PIXEL PITCH | REDUNDANCY MAXIMUM<br>NUMBER OF MODULES |
|-------------|-----------------------------------------|
| 6mm         | 336                                     |
| 9mm         | 168                                     |

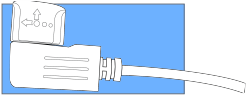
If the display exceeds the maximum number of modules for use of redundancy contact Next for assistance in additional equipment and setup. May require additional equipment not previously quoted.



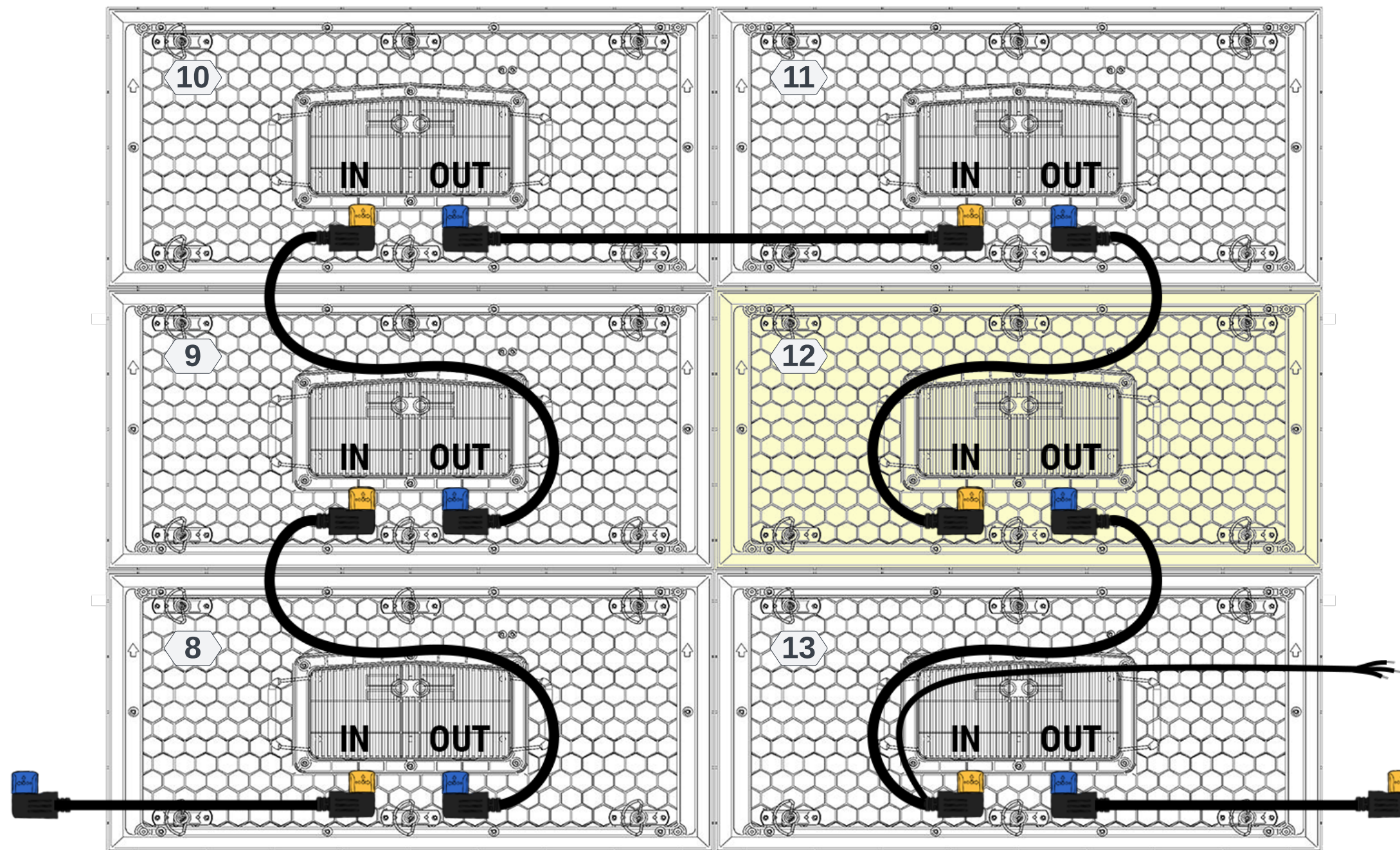
TYP. (1)  
1st Module Power/Data Cable must be connected to first module and to STAX Controller



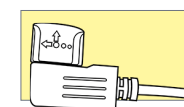
TYP. (18)  
STAX Boost Power Continuation Cable required (at maximum) after each 12th consecutive module per display face.



TYP. (1)  
Redundancy Data Cable, to be connected from the last module, to sending card port 2 within the control box.



Quantity of boost power cables will vary depending on total number of modules in the display. Some installations can use a Boost Power Continuation Cable before the 12th module. Refer to specific display schematics on page 1 for recommended installation.



STAX Boost Power Continuation Cable found in (Yellow Labeled bag). Required after each 12th consecutive module (Maximum) per display face.

Boost power cable lead can be combined with other leads to primary power. Electrical schedule can be found on page 1.



# PROJECT DETAIL

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# PROJECT DETAIL

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