Adjust LED modules to the required quantity, and strip the wires for about 10mm (0.4in).

Note: The minimum operable unit is 3pcs modules. If the modules need to be cut, they only can be cut at the red stripe wire.

When the wires of the last module exposed, firstly strip the wires for about 10mm (0.4in), then leave the middle wire untreated and cap the "+" wire and the "-" wire with the twist-on wire connectors to protect against moisture and corrosion.

When the modules need to be connected, please strip the wires for about 10mm (0.4in), then leave the middle wire untreated and connect the modules with twist-on wire connectors (red stripe wire "+" to red stripe wire "+", white wire "-" to white wire ".")

Note: The maximum connectable quantity per string is not more than 42pcs modules.

Adjust LED modules to the better place, then fix them with the screws.

Drill a hole in proper place, then run the supply wires through the hole and fix them for good protection.

Note: Drill a hole with proper strength to avoid damaging the panel of the channel letter.

Make sure the polarities of LED string to achieve required quantity, and strip the wires for about 10mm (0.4in).

MALFUNCTION & SOLUTIONS TABLE

1. There is no primary power.
   - Some SMPS don't get primary power.
   - Some modules are wrongly connected to the power supply.
   - Some modules polarities are connected reversely.

2. The power supply is auto protected since the short or open circuit occurs at the output of the SMPS.
   - Some SMPS don't get primary power.
   - Some modules are wrongly connected to the power supply.
   - Some modules polarities are connected reversely.

3. The input wires of the modules are connected reversely.
   - Check the power supply and remove malfunctions.
   - Correct the wires correctly.

4. Brightness of the LED is dim or not even.
   - The wire loss of power supply or the wire loss difference between each branch is too much.
   - The power Supply is overloaded.

5. LEDs are blinking.
   - Loose connections exist.
   - SMPS doesn't work.

WARNING

- Do not disassemble or modify the module. Don't touch LED surface with the sharp stuff.
- Don't install the modules with power on.
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- Do not disassemble or modify the module. Don't touch LED surface with the sharp stuff.
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- Do not disassemble or modify the module. Don't touch LED surface with the sharp stuff.
- Don't install the modules with power on.
Installation & Application Examples

1. Layout Density Guidelines for Light box

### Reference Scheme

- **Depth of light box**
  - [A110] (4.3"
  - [H80] (3.5"
  - [A60] (2.4"

### Parts and Tools Required

1. **Product Parts**:
   - M601CA (42pcs)
   - M601CA-W1 module
   - ST2.9 (4pcs)

2. **Tools Required**:
   - Art Knife
   - Soft Hitting Screw (ST2.9)
   - Twist-on Wire Connectors (204)

### Notes:

- The above layout data are tested with M601CA-W1 modules.
- All the data are for reference only.

### Installation Procedures

1. **Clean the light box.**
2. **Determine the installation position and quantity.**
3. **If the modules are packed in a row with back double-sided adhesive tape, please divide them with a knife.**
4. **Remove the tape backing and stick LED modules into places.**
5. **Cut LED string to achieve required quantity, and strip the wires for about 10mm(0.4in).**
6. **When the wires of the last module exposed, firstly strip the wires for about 10mm(0.4in), then leave the middle wire untreated and cap the "+" wire and the "-" wire with the twist-on wire connectors to protect against moisture and corrosion.**
7. **When the modules need to be connected, please strip the wires for about 10mm(0.4in), then leave the middle wire untreated and connect the modules with twist-on wire connectors (red stripe wire + to red stripe wire +, while wire - to white wire -).**
8. **The maximum connectable quantity per string is not more than 42pcs modules.**
9. **Adjust LED modules to the better place, then fix them with the screws.**
10. **Drill a hole in proper place, then run the supply wires through the hole and fix them for good protection.**
11. **Note: Drill the hole with proper strength to avoid damaging the panel of light box.**
12. **Make sure the polarities of the LED modules are correctly connected to that of the power supply.**

### Installation Density

<table>
<thead>
<tr>
<th>Installation Density</th>
<th>Number</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>(pcs/m²)</td>
<td>113</td>
<td>179</td>
</tr>
<tr>
<td>(pcs/ft²)</td>
<td>10</td>
<td>17</td>
</tr>
</tbody>
</table>

### Illuminance

<table>
<thead>
<tr>
<th>Illuminance</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>(lux)</td>
<td>1300-1700</td>
</tr>
</tbody>
</table>

### Layout Density Guidelines for Channel Letter

<table>
<thead>
<tr>
<th>Channel Letters</th>
<th>Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Notes:

- The above layout data are tested with M601CA-W1 modules.
- The above data are for reference only.