1. Application

FLEX by 3M (the “Product”) is a modular lighting system for dry, interior use (the “Application”). The Product allows easy creation of long, 3D lighting paths along the interior ceilings or walls of your building. White LED light sources and 3M Air Guide technology provide excellent light uniformity and efficiency.

2. Installation Guide for Models

S2, S4, X2, X4, Z2I and Z2E

3. Safety Information

Please read, understand and follow all safety information contained in this Installation Guide prior to the installation of this Product. Retain these instructions at the installation site for future reference.

Call 3M at 888-650-3497 for questions about this Product.

<table>
<thead>
<tr>
<th>EXPLANATION OF SIGNAL WORD CONSEQUENCES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WARNING</strong>: Indicates a potentially hazardous situation, which if not avoided, could result in death or serious injury and/or property damage.</td>
</tr>
</tbody>
</table>

**WARNING**

To reduce risk associated with fire or electrical shock hazards:
- Electrical installation must be performed by a licensed electrician in accordance with NFPA and state or local electrical codes.
- Disconnect the power source before installing or servicing.

To reduce risk associated with fire:
- Only use the power supply unit provided by 3M.

To reduce risk associated with physical injury from fixture falling:
- A light module can weigh up to 12 pounds (5.4kg). Insure that the components used to fasten the light modules to the load bearing point are able to carry the required load. Always refer installation to a licensed electrician or certified lighting contractor.
- Do not install light modules using pendant mount kits in moving-air environments unless the light modules are laterally/seismically braced. Continuous oscillation may cause metal fatigue in the cabling systems, leading to cable failure. Avoid placing pendant mounted light modules close to HVAC vents. For more information, please contact 3M.
- Do not use the Product after it has incurred any physical damage. Refer to a licensed electrician to check before putting the Product back into service.

To reduce risk associated with back strain or physical injury:
- A light module can weigh up to 12 pounds (5.4kg). Do not attempt installation without assistance and adequate equipment needed to safely lift the light module up to where it is to be suspended.
4. General Information

- Make sure each installer reads this Installation Guide before beginning.
- Give these instructions to the customer upon completion.
- Call 3M at 888-650-3497 for questions about this Product.

5. Read Before Installation

- Be sure you have the most current Installation Guide. The information in this Guide is subject to change. Call 3M at the above number to obtain a current Guide.
- The site should be inspected to ensure it has been adequately prepared for installation.

6. Accessories

Accessory quantities vary by order. Refer to your packaging slip for detailed information on the exact quantities provided.

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
<th>Items Included</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Modules</td>
<td>FLEX light modules with connectors. See the Specification Sheet, “FLEX by 3M Light Module System” for dimensions and weights. The light modules are packaged individually.</td>
<td>• LP1090-23-GG-299-DV and thermal pad material.</td>
</tr>
<tr>
<td>Power Supply Kit</td>
<td>96 W universal input LED power supply. One power supply is required per 60-90 W of DC load.</td>
<td>• Dimensions 12.3&quot; x 2.4&quot; x 1.5&quot;</td>
</tr>
<tr>
<td>Power Cord Kit</td>
<td>Power cords and canopy components. At least one Power Cord Kit is required per Power Supply. Power cords are not plenum rated.</td>
<td>• 10 ft. (3m) power cord (not shown)</td>
</tr>
<tr>
<td>Horizontal Pendant Mount Kit</td>
<td>Horizontal inter-module connection plate assembly and suspension hardware for pendant attach to a T-grid suspended ceiling concrete or gypsum board ceiling.</td>
<td>• Horizontal suspension plate assembly with two 10 ft. (3m) of 3/64&quot; stainless steel, ball terminated aircraft cable</td>
</tr>
<tr>
<td>Connection Plate Assembly</td>
<td>Connection Plate assembly is used between two Z2I, two Z2E modules, or in a Z2I to Z2E transition. May also be used between two S2 modules.</td>
<td>• Connection plate assembly</td>
</tr>
</tbody>
</table>
6  Accessories, continued

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
<th>Items Included</th>
</tr>
</thead>
</table>
| Vertical Pendant Mount Kit | Vertical inter-module connection plate assembly and suspension hardware for pendant attachment to a T-grid suspended ceiling, concrete, or gypsum board ceiling.                                                | • Vertical suspension plate assembly. With one 10 ft. (3m) of 3/64" stainless steel aircraft cable  
  • Supported T-bar clip  
  • Cable gripper  
  • 5 in. (12.7 cm) canopy plate with 0.5" (12.7mm) power feed hole  
  • 5 in. (12.7cm) canopy plate |
| Ceiling Surface Mount T-Grid Kit | Brackets to attach to a T-grid ceiling when the light modules must be less than 6 in. (15cm) from the ceiling.                                                                                           | • T-grid interconnection brackets (Qty: 2)  
  • Threaded studs (Qty: 2)  
  • Latch nuts (Qty: 4) |
| Wall Mount Bracket Assembly | Wall mount bracket assembly for attaching light modules to a wall. Use with #6 or #8 screws and suitable wall anchors.                                                                                   | • Wall mount bracket assembly |
| Termination Plate          | Finished cosmetic termination plate for exposed module ends not connected to another light module.                                                                                                       | • Termination plate (select finish to match light modules) |

7. Additional Materials

The following additional materials may be needed for your installation and should be provided by your contractor.

- Painted metal enclosure, minimum dimensions 16 in. x 6 in. x 4 in. (40.64cm x 15.24cm x 10.16cm)
- Junction box
- DC power wire (plenum rated)
- AC wire
- Wire nuts
- Dimming control wiring (gray and purple) – minimum 18 AWG
- Dimmer switch (such as Lutron® DIVA® 0-10 V dimmer)
- Dimmer relay (such as Lutron® PP-120H or PP-277H)
8. Installation

A. Installation Overview

The installation consists of planning the power supply loading and placement, power enclosure mounting, roughing in the power drops, mounting the light modules, and finishing.

B. Plan the Power Supply Loading and Placement

As shown in the wiring diagrams in Figures 1 and 2, a single power supply may be used with multiple light modules types as long as the total wattage of the circuit doesn’t exceed 96 W (DC power). Each power supply should be loaded between 60 and 96 watts for maximum efficiency. The DC power requirement of each light module is listed in Table 1. The maximum length of each wire run before the power drop is listed below in Table 2. The Tables are on page 5.

FLEX light modules operate on a **Class 2 circuit at 24 Volts DC.**
8 Installation, continued

Table 1

<table>
<thead>
<tr>
<th>Module Code</th>
<th>DC Power in Watts</th>
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<tbody>
<tr>
<td>S2</td>
<td>31</td>
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<tr>
<td>S4</td>
<td>51</td>
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<tr>
<td>X2</td>
<td>30</td>
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<tr>
<td>X4</td>
<td>31</td>
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<tr>
<td>Z2I</td>
<td>17</td>
</tr>
<tr>
<td>Z2E</td>
<td>17</td>
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</table>

Table 2

<table>
<thead>
<tr>
<th>Wire Gauge AWG</th>
<th>Power Drop Length feet (m)</th>
<th>Max. Run Length to Drop feet (m)</th>
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</thead>
<tbody>
<tr>
<td>12</td>
<td>10 (3)</td>
<td>110 (33.5)</td>
</tr>
<tr>
<td>12</td>
<td>25 (7.6)</td>
<td>50 (15)</td>
</tr>
<tr>
<td>14</td>
<td>10 (3)</td>
<td>70 (21)</td>
</tr>
<tr>
<td>14</td>
<td>25 (7.6)</td>
<td>30 (9)</td>
</tr>
<tr>
<td>16</td>
<td>10 (3)</td>
<td>40 (12.2)</td>
</tr>
<tr>
<td>16</td>
<td>25 (7.6)</td>
<td>20 (6)</td>
</tr>
<tr>
<td>18</td>
<td>10 (3)</td>
<td>25 (7.6)</td>
</tr>
<tr>
<td>18</td>
<td>25 (7.6)</td>
<td>10 (3)</td>
</tr>
</tbody>
</table>

Important Note! The FLEX light modules operate on constant voltage circuit (24 V DC). In order for them to operate correctly the wire distance from the power supply to the light module must be within the maximum run length indicated in Table 2 and the power supply must not be overloaded. Do not connect the low voltage wiring of two power supplies together.

C. Mount Power Enclosure(s) and Optional Junction Boxes

Local ordinances require an electrical enclosure for the power supplies. The size and type of enclosure will depend upon where it is to be installed. Mount the power supplies in a metal enclosure as follows:

1. Select a suitable metal enclosure no smaller than 16 in. x 6 in. x 4 in. (40.64cm x 15.24cm x 10.16cm).
2. Mount the power supplies to the metal enclosure using the supplied thermal pad material to ensure good thermal contact.
3. Up to 4 power supplies may be mounted within a single 16 in. x 12 in. x 4 in. (40.64cm x 30.5cm x 10.16cm) enclosure.

NOTE: The power supplies have a maximum operating temperature of 158°F (70°C). Undersizing the enclosure or mounting the power supplies with poor thermal contact may result in decreased driver lifetime and void the warranty.

4. Mount the power enclosure(s) in the selected location.
5. Locate and mark each power drop. If using them, mount the ceiling junction boxes above each power drop.

D. Rough in Power Drops

1. Wire the de-energized AC to the input side of the power supply following all local electrical codes.
2. If using ceiling junction boxes, run wire from the DC side of the power supply to the ceiling junction boxes using contractor supplied wiring. Use the appropriate gauge wiring as specified in Table 2.
3. If not using ceiling junction boxes, feed the power supply cord(s) into the power enclosure and then route them to the appropriate power drop location.
4. Cut the non-connectorized end of the power cord to the desired length and strip the ends. Wire nut the module power cord to the power supply DC output.
5. Wire nut the dimming control wiring (if using) to the power supply according to Figure 1. If a non-dimmable configuration is being used as shown in Figure 2, terminate the dimming control wiring on the power supply in accordance with NFPA or state or local electrical codes.
6. Make sure the cable entry and exit ports of the power enclosure are properly closed.
8 Installation, continued

E. Mounting the Light Modules - Overview

For the easiest installation, it is recommended to hang some or all of the suspension hardware first, and then bring the light modules up and snap the suspension plates assemblies onto them. If the continuous run of FLEX light modules includes a wall mounted section, it is recommended to start with the wall mounted light modules, and then work up to the ceiling sections per the architectural plan.

An anchor point is required at least every 4 ft. (1.2m). Note which anchor points will have power drops and use a 5 in. (12.7cm) canopy plate assembly with power feed hold at these positions (these come with the power cord kits). Non-power feed anchor points should be fitted with a plain 5 in. (12.7cm) canopy plate assembly. See Figure 3 and Figure 4.

Figure 3. Pendant Mounting to a T-grid Type Ceiling, Exploded View

Figure 4. Pendant Mounting to a T-grid Type Ceiling, Assembled View
F. Installing the Horizontal Pendant Mounting Kit

1. For a suspended ceiling grid:
   - Attach the supported T-bar clip to the grid as shown in Figure 5 at the approximate location according to the planned layout. Attach support wire(s) to the T-bar clips as required by applicable building codes.
   - For a hard ceiling: Install suitable anchors with a 1/4-20 thread as shown in Figure 6.

2. Attach the canopy bar and plate as shown. The canopy plate can also be mounted to a bracket bar on a 4 in. (10.2cm) junction box using a 1/4-20 threaded bolt.

3. Install the cable grippers. DO NOT OVER-TORQUE. Finger-tighten only and then tighten with a slot-head screw driver a quarter turn further, but no more.

4. Feed the two aircraft cables attached to the suspension plate assembly into the cable grippers at the ceiling until the suspension plate assembly is hanging at the desired height and is level. If this location is designated as a power drop, feed the connectorized end of a power cord through the power feed opening in the canopy plate assembly.

5. Repeat the above steps to install at least on additional suspension plate assembly before continuing.

---

**WARNING**

To reduce risk associated with physical injury from fixture falling:

- The light modules can weigh up to 12 pounds (5.4kg). Insure that the mounting hardware is adequately fastened to the load bearing point and is able to carry the required load. Always refer installation to a licensed electrician or certified lighting contractor.
- **Do not** install light modules using pendant mount kits in moving-air environments unless the light modules are laterally/seismically braced. Continuous oscillation may cause metal fatigue in the cabling systems, leading to cable failure. Avoid placing pendant mounted light modules close to HVAC vents. For more information please contact 3M.

**IMPORTANT:** Suspension points where there is an exposed end of the light module require a different installation procedure. See the Section 8.K “Installation of Termination Plate Assemblies” before continuing.
8 Installation, continued

G. Hanging the First Horizontal Light Module

1. Attach the first light module to the two horizontal suspension plate assemblies by inserting the latch nuts on the suspension plate assemblies into the holes on the module and activating the spring loaded engagement mechanism (push tabs toward the center of the module). Release the tabs and ensure a latch nuts are fully captured. See Figure 7.

2. Repeat the process for the other horizontal plate assembly on the opposite end of the module. The light module should now be suspended from the ceiling. Check for the correct height and level installation before continuing.

Figure 7. Hanging a Light Module

H. Thread the Power Drop

1. If either end of this light module is designated as a power drop location, thread the connectorized end of the power cord through the power feed hole on the back cover and connect to the nearest electrical connector on the module. See Figure 8 for all steps.

2. Take up slack in the power cord recessing the connectors back into the light module.

3. Attach the strain relief grommet to the power cord at the power feed hole. Push the cosmetic plug into the unused power feed hole on the opposing side of this light module.

Figure 8. Cord Routing
I. Connect Adjacent Light Modules

1. Prepare a third ceiling anchor point and install a horizontal suspension plate assembly.

2. If the adjacent light module will be running off the same power supply as the first light module, pull the remaining electrical connectors from the first light module through the clearance hole on the suspension plate assembly. Connect the wire harness connector on the adjacent light module and then tuck the excess cable into one of the light modules to prepare for connecting them together.

3. Activate the spring loaded engagement mechanism on the second module to allow insertion of the latch nuts on the suspension plate assembly into the light modules. Repeat for the opposing end so the second light module is now completely suspended. The light modules should now be connected together as shown in Figure 9.

![Figure 9. Modules Interconnected with Suspension Plate Assembly](image)

J. Installing Additional Light Modules

Repeat steps above until each continuous run of FLEX light modules has been completed.

K. Installation of Termination Plate Assemblies

Suspension points or wall mount points where there is an exposed end of the module require modifying the suspension or wall mount hardware as follows:

1. Using two pliers or similar clamping tools, unscrew each set of latch nuts. See Figure 10.

   **NOTE:** Use a rubber strip or similar between the latch nut and pliers to prevent scratching the latch nuts with the jaws of the pliers.

2. Retain two of the four latch nuts and the two threaded studs. Set aside the two remaining latch nuts, which will no longer be used.

3. Thread each stud into the termination plate assembly as far as it will go.

4. Orient the termination plate assembly to the suspension plate assembly as shown and position the studs through the corresponding holes in the suspension plate assembly.

5. Tighten the latch nuts, using a rubber strip to prevent scratches. The assembly is complete.

6. Mount the termination plate assembly using the appropriate procedure described in Sections M, N and O.

7. Connect the completed termination plate assembly to the free end of the nearest light module.

![Figure 10. Installation of Termination Plate Assemblies](image)

Discard two right most latch nuts.
8 Installation, continued

L. Installing the Z-plane Change Modules

1. The intersections of two Z2I light modules, two Z2E light modules, or Z2I to Z2E transitions do not require a ceiling anchor point. As shown in Figure 11, use a connection plate assembly between these types of light modules. The interlocking mechanism is the same as above.

2. It may simplify the installation to first interconnect the two Z-light modules on the floor or work surface and then suspend this assembly.

NOTE: In general, it is recommended not to designate the Z-module intersections as power drop locations in order to provide the best appearance.

Figure 11. Mounting the light modules to a Concrete or Gypsum Board Ceiling. A Connection Plate Assembly is used between Z2I and Z2E light modules with no cable connection to the ceiling required at the intersection.

M. Installing Wall Mounted Modules

1. If using a termination plate, first prepare a wall mount bracket termination plate as described in Section K. See Figure 12.

2. Mark and mount the lowest wall bracket assembly to the wall using #6 or #8 screws and suitable wall anchors.

3. If either end of the light module is designated as a power drop location, thread the connectorized end of the power cord through the hole on the module back cover and connect to the nearest electrical connector. See Figure 8.

4. Take up slack in the power cord recessing the connectors back into the module.

5. Attach the strain relief grommet and place the plug into the hole of the opposing power drop hole on this module.

6. Set one end of the module onto the wall bracket assembly and activate the spring-loaded engagement mechanism on the module to allow insertion of the latch nuts into the light module.

7. Attach a wall bracket assembly to the other end and then secure it to the wall using suitable anchors.

8. Repeat these steps for additional light modules as required.

Figure 12. Example of Wall Mount and Vertical Pendant Mount Installation
N. Installation of Vertical Pendant Mounted Modules

1. For a suspended ceiling grid:
   - Attach the T-bar clip to the grid as shown in Figure 12a at the approximate location according to the planned layout. Attach support wire(s) to the T-bar clips as required by applicable building codes.
   - For a hard ceiling: Install suitable anchors with a 1/4-20 thread as shown in Figure 12b.

2. Position the canopy plate shown in Figures 12a and 12b. The canopy plate can also be mounted to a bracket bar on a 4 in. (10.2cm) junction box using a 1/4-20 threaded bolt. If this location is designated as a power drop, then be sure to use a canopy plate assembly with a power feed hole.

3. Install the cable grippers to hold the canopy plate securely against the ceiling. DO NOT OVER-TORQUE. Finger-tighten only and then tighten with a slot-head screw driver a quarter turn further, but no more.

4. Feed the aircraft cable attached to the suspension plate assembly into the cable gripper at the ceiling until the suspension plate assembly is hanging at the desired height and is level. If this location is designated as a power drop, feed the connectorized end of a power cord through the power feed opening in the canopy plate assembly.

5. Repeat the above steps to install at least one additional suspension plate assembly before continuing.

6. Continue following a similar procedure as was described in Sections G-J.

IMPORTANT: Suspension points where there is an exposed end of the module require a different installation procedure. See Section K, Installation of Termination Plate Assemblies, before continuing.

7. Attach the first light module to the two vertical suspension plate assemblies by inserting the latch nuts on the suspension plate assembly into the holes on the light module and activating the spring loaded engagement mechanism (push tabs toward the center of the module).

8. Repeat process for the other vertical plate assembly on the opposite end of the module. The light module should now be suspended from the ceiling.

9. Check for correct height and level installation before suspending additional light modules following the same procedure.

O. Installation of T-grid Ceiling Surface Mount Brackets

1. If using a termination plate, first prepare a ceiling surface mount bracket termination plate assembly as described in Section K, Installation of Termination Plate Assemblies.

2. To install the T-grid interconnection brackets, clamp a pair of brackets around the desired section as shown in Figure 13.

3. Clamp the portion of the bracket assembly below the grid together using the two threaded studs and four latch nuts as shown. If desired, add a drop of thread locker to the threaded studs before assembling.

4. Tighten the latch nuts using rubber lined pliers to prevent scratches.

5. Attach support wire(s) to the through holes on the top of the bracket as required by applicable building codes.

6. Attach the light modules to the mounting brackets as described in Section F, Horizontal Pendant Mounting.

Figure 13. Assembling the Ceiling Surface Mount T-Grid Kit
8 Installation, continued

P. Finishing

1. Trim the excess aircraft cable from each of the cable grippers leaving at least 1 in. (2.54cm) of cable showing. Cables may be cut using purpose-built cutters such as Felco® C7. The cable will not fray unless passed repeatedly through the cable glider mechanism or otherwise abused.

2. To prevent fraying of freshly cut ends of aircraft cable, re-solder or apply a drop of quick curing adhesive such as Scotch® Super Glue to the cut ends.

3. Secure the power cords to the aircraft cables using zip ties.

4. Push any excess power cord up above the canopy plate assembly and secure the strain relief grommet.

9. Before Energizing the Circuit

Check to see if the cabling is secure and the connections are tight. Make sure the length of cable between the light modules and power supply is within the maximum for the gauge of wire used and the power supply is not overloaded.

10. Handling, Cleaning and Repairing

A. Handling

Handle the light modules with care. The assembly can be damaged if improperly or roughly handled. Keep the Product in its original packaging until installation and, if feasible, transport the fixture to the site in its original box.

B. Cleaning

If needed, use a mild, non-abrasive, water based detergent solution to clean the front face of the light modules. Plastic polishes such as NOVUS® No. 1 or Brillianize® may also be used. Do not use solvent based or ammonia based cleaning solutions such as Windex® glass cleaners. These may mar or discolor the transmissive lens.

C. Repairing

Except for replacing the replaceable components, do not attempt to repair the light modules. The light modules do not have user-serviceable parts.

11. Related Documentation

Please refer to FLEX by 3M Light Module System - Specification Sheet for product specifications.

12. Troubleshooting

If these solutions do not work for you, please call 3M Technical Service at 1-888-650-3497.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Potential Cause</th>
<th>What to Do</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light module does not illuminate</td>
<td>Open circuit</td>
<td>Check for open connection.</td>
</tr>
<tr>
<td></td>
<td>Power supply does not have AC input.</td>
<td>Verify input voltage is being supplied.</td>
</tr>
<tr>
<td></td>
<td>Power supply does not have 24 V DC output.</td>
<td>Verify output voltage is being supplied. If input is supplied but output is not the power supply needs to be replaced.</td>
</tr>
<tr>
<td></td>
<td>Wiring is improperly installed.</td>
<td>Check circuit’s wiring.</td>
</tr>
<tr>
<td>Only a section of the light module is illuminated</td>
<td>A non-serviceable electrical component is not functioning.</td>
<td>Contact 3M for replacement LED light modules</td>
</tr>
<tr>
<td>One Light Module is dimmer than others</td>
<td>Too many light modules are connected to a single power supply.</td>
<td>There must be less than a 100W load per power supply.</td>
</tr>
<tr>
<td></td>
<td>Exceeded maximum run length for wire gauge used.</td>
<td>Increase wire gauge or shorten length of run by relocating supply closer to power drop.</td>
</tr>
</tbody>
</table>
13. Component Replacement

The power unit may be serviced by an electrician. Replacement light modules and accessory kits can be ordered from 3M.

### Module Order Code

**1. Module Type**

<table>
<thead>
<tr>
<th>CODE</th>
<th>Description</th>
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<tbody>
<tr>
<td>S2</td>
<td>Straight 2 ft. (0.6m)</td>
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<tr>
<td>S4</td>
<td>Straight 4 ft. (1.2m)</td>
</tr>
<tr>
<td>X4</td>
<td>X Plane 45° 4 ft. (1.2m) Outer Radius</td>
</tr>
<tr>
<td>X2</td>
<td>X Plane 90° 2 ft. (0.6m) Outer Radius</td>
</tr>
<tr>
<td>Z2I</td>
<td>Z Plane 45° 2 ft. (0.6m) Radius - Interior Lit</td>
</tr>
<tr>
<td>Z2E</td>
<td>Z Plane 45° 2 ft. (0.6m) Radius - Exterior Lit</td>
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**2. Module Finish**

<table>
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<tr>
<th>CODE</th>
<th>Description</th>
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<td>Black</td>
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<tr>
<td>SL</td>
<td>Silver</td>
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**3. Light**

<table>
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<tr>
<th>CODE</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>3K</td>
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**4. Power Cord Kit – Power Cord Color**

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<tbody>
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<td>White Power Cord</td>
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<td>FLX-PC-BL</td>
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**5. Termination Plate Assembly-Finish**

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<td>FLX-TP-BL</td>
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<tr>
<td>FLX-TP-SL</td>
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### Order Form

<table>
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<th>Order Code</th>
<th>Module</th>
<th>Finish</th>
<th>Light</th>
<th>Quantity</th>
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<tbody>
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<td>FLX</td>
<td>S2</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>S4 Straight 4 ft. (1.2m)</td>
<td>FLX</td>
<td>S4</td>
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<td>-</td>
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<td>X4 X Plane 45° 4 ft. (1.2m) Outer Radius</td>
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<td>X4</td>
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<td>-</td>
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<td>X2 X Plane 90° 2 ft. (0.6m) Outer Radius</td>
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<td>X2</td>
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<td>-</td>
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<tr>
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</tr>
<tr>
<td>Z2E Z Plane 45° 2 ft. (0.6m) Radius - Exterior Lit</td>
<td>FLX</td>
<td>Z2E</td>
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<tr>
<td>Termination Plate</td>
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<tr>
<td>Power Cord Kit</td>
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<tr>
<td>Power Supply Kit</td>
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<tr>
<td>Horizontal Pendant Suspension Kit</td>
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<tr>
<td>Vertical Pendant Suspension Kit</td>
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<tr>
<td>Connection Plate Assembly</td>
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<tr>
<td>Wall Mount Bracket Assembly</td>
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<tr>
<td>Ceiling Surface Mount Bracket Kit</td>
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</table>

1. One Power Supply Kit and One Power Cord Kit is required for 8 ft. of FLEX (96 watt DC load) minimum
2. One Connection Plate Assembly is required for interconnecting two Z modules
3. A Termination Plate is required for each exposed end of a module
WARRANTY DOCUMENT

Product
FLEX by 3M (the “Product”) is a modular lighting system for dry, interior use (the “Application”).

Limited Warranty
1. When used in the Application, 3M warrants to the party who purchased the Product directly from 3M (the “Buyer) that the Product will be free from defects in material and workmanship (the “3M Warranty”) for the applicable time period stated below ("Warranty Period"), which will begin on the earlier of: (a) Product installation date; or (b) three months after 3M’s Product shipment date:
   1.1 For all but a Product’s power supply component, the Warranty Period is five years.
   1.2 For a Product’s power supply component, the Warranty Period is three years.

2. For Buyer’s convenience, 3M may provide a Specification Sheet, other engineering or technical information, recommendations, installation instructions, and other Product-related information or materials (all collectively referred to as “Product Information”), but 3M does not warrant any Product Information.

3. The 3M Warranty is contingent on the Product being stored, wired, installed, maintained, and used only as 3M recommends in all Product Information and in this Warranty Document. Also, 3M has no obligation under the 3M Warranty as to Product that has been: (a) modified or altered in any manner; (b) damaged through contact with a person or thing, misuse, accident, vandalism, neglect, or other action by anyone other than 3M; (c) affected by environmental conditions, such as power fluctuations, improper power supply, or activity by animals or insects; or (d) used not in compliance with all applicable standards and electrical codes.

4. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, THE 3M WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, RIGHTS OR CONDITIONS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY, SATISFACTORY QUALITY, FITNESS FOR A PARTICULAR PURPOSE AND THOSE ARISING FROM A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. BUYER IS RESPONSIBLE FOR DETERMINING IF A PRODUCT IS SUITABLE FOR ITS PARTICULAR PURPOSE AND ITS INSTALLATION.

Limited Remedy
3M must receive any 3M Warranty claim in writing by the earlier of: (a) applicable Warranty Period’s expiration date; or (b) fourteen business days after Buyer’s discovery of that 3M Warranty claim. If the Product is proven not to have met the 3M Warranty during the applicable Warranty Period, then BUYER’S EXCLUSIVE REMEDY AND 3M’S SOLE OBLIGATION, WILL BE AT 3M’S OPTION, TO REPAIR OR REPLACE THAT PRODUCT QUANTITY OR REFUND THE APPLICABLE PURCHASE PRICE.

Limitation of Liability
3M WILL NOT UNDER ANY CIRCUMSTANCES BE LIABLE TO BUYER FOR DIRECT (other than the Limited Remedy above), SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, LOSS OF PROFITS) IN ANY WAY RELATED TO A PRODUCT, THIS WARRANTY DOCUMENT, OR PRODUCT INFORMATION, REGARDLESS OF THE LEGAL OR EQUITABLE THEORY ON WHICH SUCH DAMAGES ARE SOUGHT.