

2164.13x - Andromeda 25" Round LED Pendant

# Constellation™

assembly instructions

SONNEMAN®  
A WAY OF LIGHT

# Constellation™ Product Information and Warnings

## Important

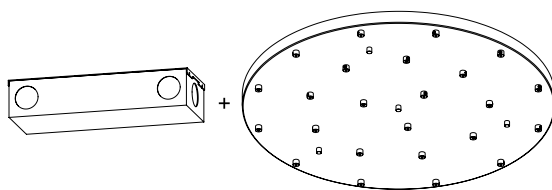
- **Always disconnect the power before installing or replacing Luminaires and before cleaning or other maintenance.**
- **Consult a qualified, licensed electrician to ensure correct branch circuit conductor.**  
*Consulter un électricien qualifié pour vous assurer que les conducteurs de la dérivation sont adéquats.*
- Please read all included assembly instructions and warnings carefully before installation. Contact Customer Service if you have any questions or concerns. Before installation, please confirm that the fixture is compatible with your supply voltage and dimming system, if present.
- LEDs are highly sensitive electronic devices, and must be treated with care. Do not open any factory sealed compartments, and avoid touching the LEDs with your hands or any object.
- Although all our fixtures are equipped with protective devices, LED electronic systems are vulnerable to power surges and supply variations. Do not install LED fixtures on the same circuit as any motors, appliances, or HVAC systems.
- Remote LED Driver installation must be done by a licensed electrician and in accordance with local building and electrical codes. Remote installations should be in an accessible location, as close to the fixture as possible. The appropriate wire gauge must be used to limit the voltage drop to avoid overloading the LED Driver.
- Any mounting hardware is provided for your convenience and should be used with discretion. Always use the appropriate hardware for the mounting surface.
- Constellation™ LED Drivers are 24VDC Constant Voltage output.
- Constellation™ must be installed in dry locations ONLY.

## Welcome to Constellation™

A Constellation configuration is built from LED hubs, connecting arms, end arms, and cable ceiling hangers. Illumination radiates through either the white optical acrylic lenses, or sparkles with refracted light through micro-faceted clear acrylic crystal lenses. Each hub is a complete LED light engine, using an array of LEDs with driver circuitry on each of the two faces of the hub. The connecting arms form a structural and electrical connection between the hubs, and are easily assembled by inserting the arm into the hub and are secured in place by a retaining set screw. The hubs can revolve around the connecting arms to alter the orientation of the illumination and that of the intersecting connecting arms. The configuration is supported by cable bushings in the canopy and is powered by a special power feed installed into the hubs connected to the ceiling power feed.

### WHAT COMES IN THE BOX

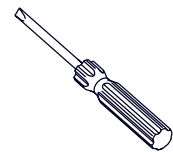
#### Power Feed & Hardware



Remote Power Supply w/ Canopy  
(Qty 1)

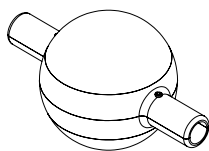


Canopy Set Screw  
(Qty 24+)



Screwdriver  
(Qty 1+)

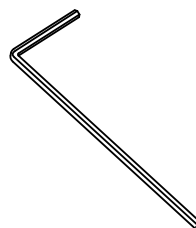
#### Hubs and Power Connections



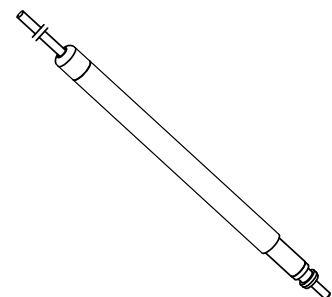
Universal Hub  
(Qty 156)



M2 Set Screw  
(Qty 312+)



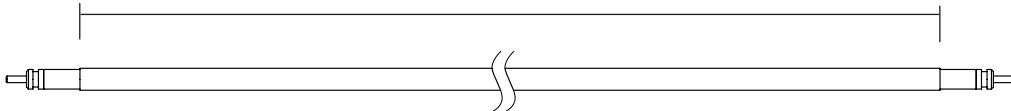
Small Hex Wrench  
(Qty 3+)



Power Connector  
(Qty 24)

**Connecting Arms**

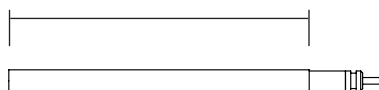
4<sup>1</sup>/<sub>4</sub>" 5<sup>1</sup>/<sub>4</sub>" 6<sup>1</sup>/<sub>4</sub>" 7<sup>1</sup>/<sub>4</sub>" 8<sup>1</sup>/<sub>4</sub>" 9<sup>1</sup>/<sub>4</sub>" 10<sup>1</sup>/<sub>4</sub>" 11<sup>1</sup>/<sub>4</sub>" 12<sup>1</sup>/<sub>4</sub>" 13<sup>1</sup>/<sub>4</sub>" or 14<sup>1</sup>/<sub>4</sub>"



Connecting Arm Key		
Length	Arm #	Qty
4 <sup>1</sup> / <sub>4</sub> " Connecting Arm	M4	5
5 <sup>1</sup> / <sub>4</sub> " Connecting Arm	M5	11
6 <sup>1</sup> / <sub>4</sub> " Connecting Arm	M6	28
7 <sup>1</sup> / <sub>4</sub> " Connecting Arm	M7	35
8 <sup>1</sup> / <sub>4</sub> " Connecting Arm	M8	23
9 <sup>1</sup> / <sub>4</sub> " Connecting Arm	M9	14
10 <sup>1</sup> / <sub>4</sub> " Connecting Arm	M10	5
11 <sup>1</sup> / <sub>4</sub> " Connecting Arm	M11	8
12 <sup>1</sup> / <sub>4</sub> " Connecting Arm	M12	1
13 <sup>1</sup> / <sub>4</sub> " Connecting Arm	M13	2

**End Arms**

4<sup>1</sup>/<sub>2</sub>" 6<sup>1</sup>/<sub>2</sub>" 8<sup>1</sup>/<sub>2</sub>" 10<sup>1</sup>/<sub>2</sub>" or 12<sup>1</sup>/<sub>2</sub>"



End Arm Key		
Length	Arm #	Qty
4 <sup>1</sup> / <sub>2</sub> " End Arm	M4E	12
6 <sup>1</sup> / <sub>2</sub> " End Arm	M6E	1
8 <sup>1</sup> / <sub>2</sub> " End Arm	M8E	6
10 <sup>1</sup> / <sub>2</sub> " End Arm	M10E	5

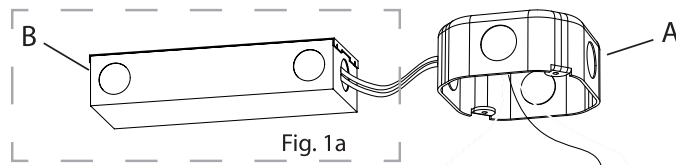


Fig. 1a

**Remote Power Supply Installation (Fig. 1a):**

1. Shut off power to the Outlet Box (A).
2. Install the Power Supply (B) in a remote and accessible location near the fixture in accordance with local electrical code. Make appropriate electrical connections using wire nuts:
  - a. Connect the Power Supply's (B) live wire (black) to the live supply wire.
  - b. Connect the Power Supply's neutral wire (white) to the neutral supply wire.
  - c. Connect the Power Supply's ground wire (green or uncoated) to the ground supply wire.
  - d. Connect the Power Supply's positive (+) output wire to the required length of red wire (not included) to reach the Outlet Box (A).
  - e. Connect the Power Supply's negative (-) output wire to the required length of black wire (not included) to reach the Outlet Box.

**Power Feed Installation (Fig. 1b):**

3. Feed the Power Connector Cord (C) to the Universal Hub (D) through the Bushing (E) on the Power Feed. Adjust the cord length as desired, and secure with the Slotted Set Screw (F) using the provided Screwdriver (G). Reserve excess Cord in the canopy (K).
4. Attach the Mounting Plate (H) to the Outlet Box (A) using the two Outlet Box Screws (J).
5. Connect the fixture wires to the lever nuts (R) by pulling up on the lever for an empty slot, inserting the wire, and pushing the lever back down to lock. The inner stranded conductor (S) and the outer braided conductor (T) on each cord (D) must be connected to separate lever nuts, as shown in Appendix B. Reserve extra cords (D) and lever nuts (R) in the canopy (K). If shortening of the cords is necessary refer to Appendix A.
6. Screw safety straps (U) from canopy to studs (V) on mounting plate (H).
7. Make appropriate electrical connections using wire nuts :
  - a. Connect the positive (red) low voltage wire from the Power Supply (B) to the red side (inner, jacketed conductor) of the Power Connector Cord (C).
  - b. Connect the negative (black) low voltage wire from the Power Supply to the black side (outer, braided conductor) of the Power Connector Cord (C).
  - c. Carefully place the connections in the Outlet Box.
8. Install the Canopy (K) to the Mounting Plate (H) and secure with Canopy Nut (L).
9. Restore power to the outlet box (A)

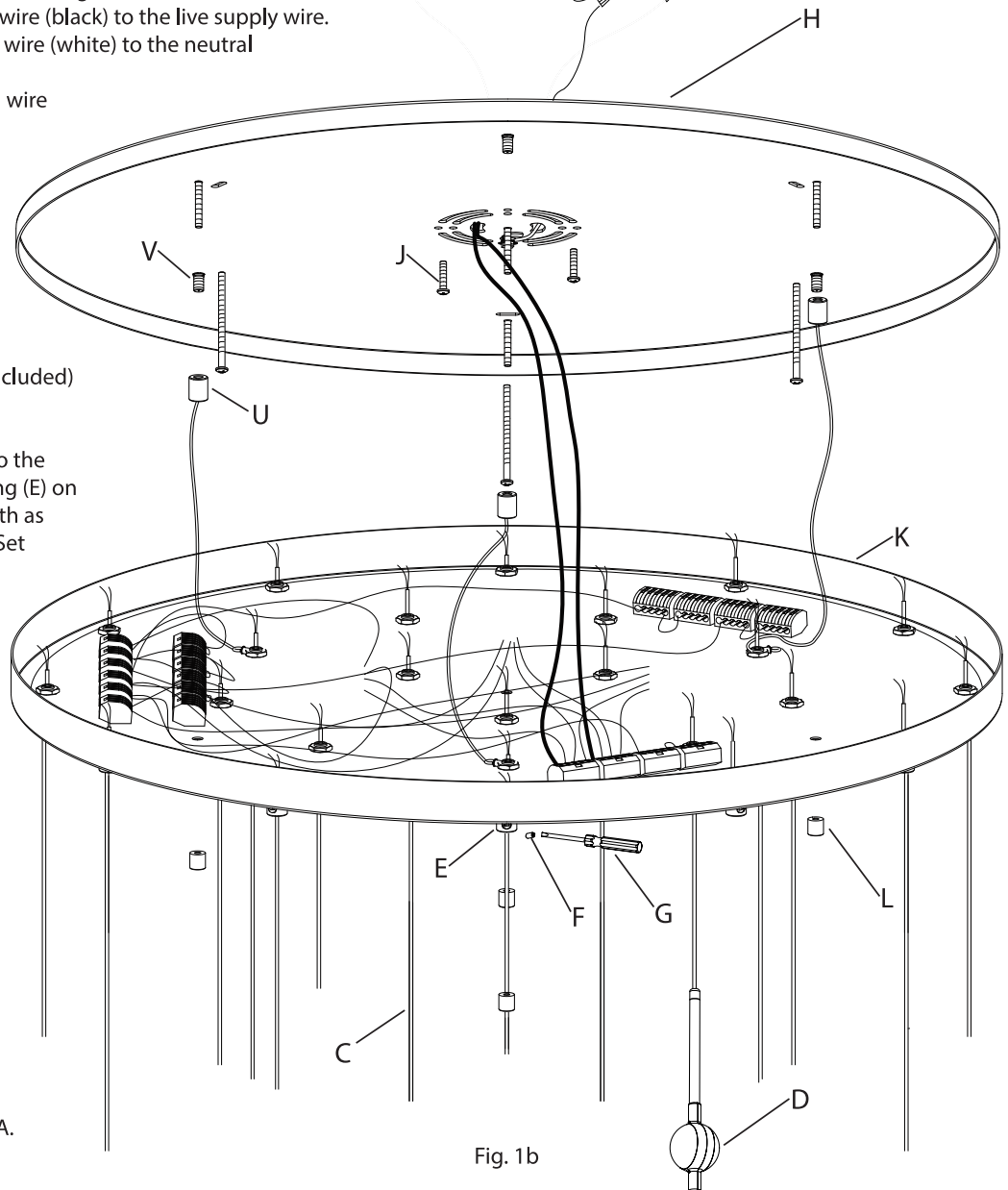


Fig. 1b

**Arm and LED Hub Section Assembly:**

Attach a Universal Hub (D) to the end of each Power Feed Cord (M) by fully inserting the Cord into a Neck (N) on the Hub (Fig. 2) and installing the M2 Set Screw (P) into the Neck (N) of the Hub, using the Small Hex Wrench (Q) provided, and tightening until it comes in contact with the plastic cap on the Arm. Use the following pages for Installation Patterns. **CAUTION: Do not over tighten the set screws.**

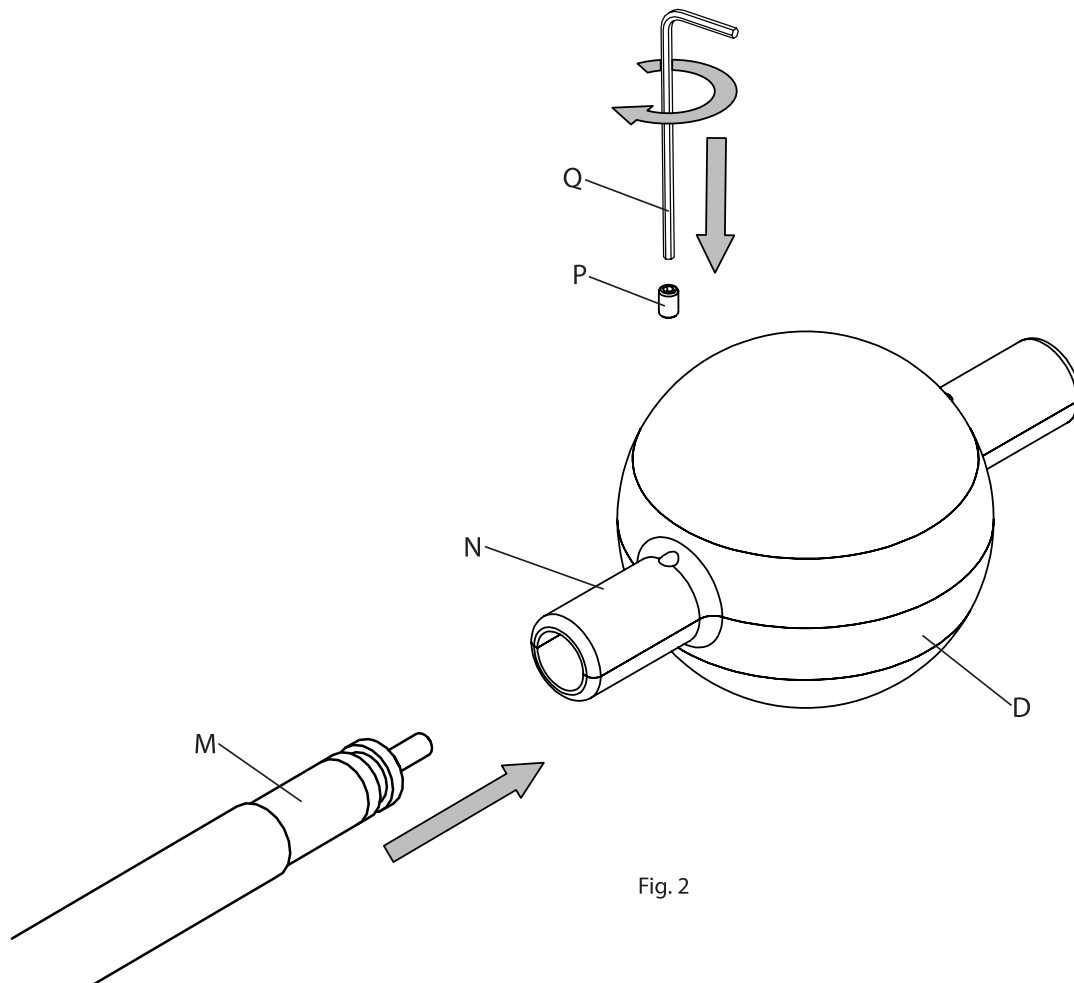
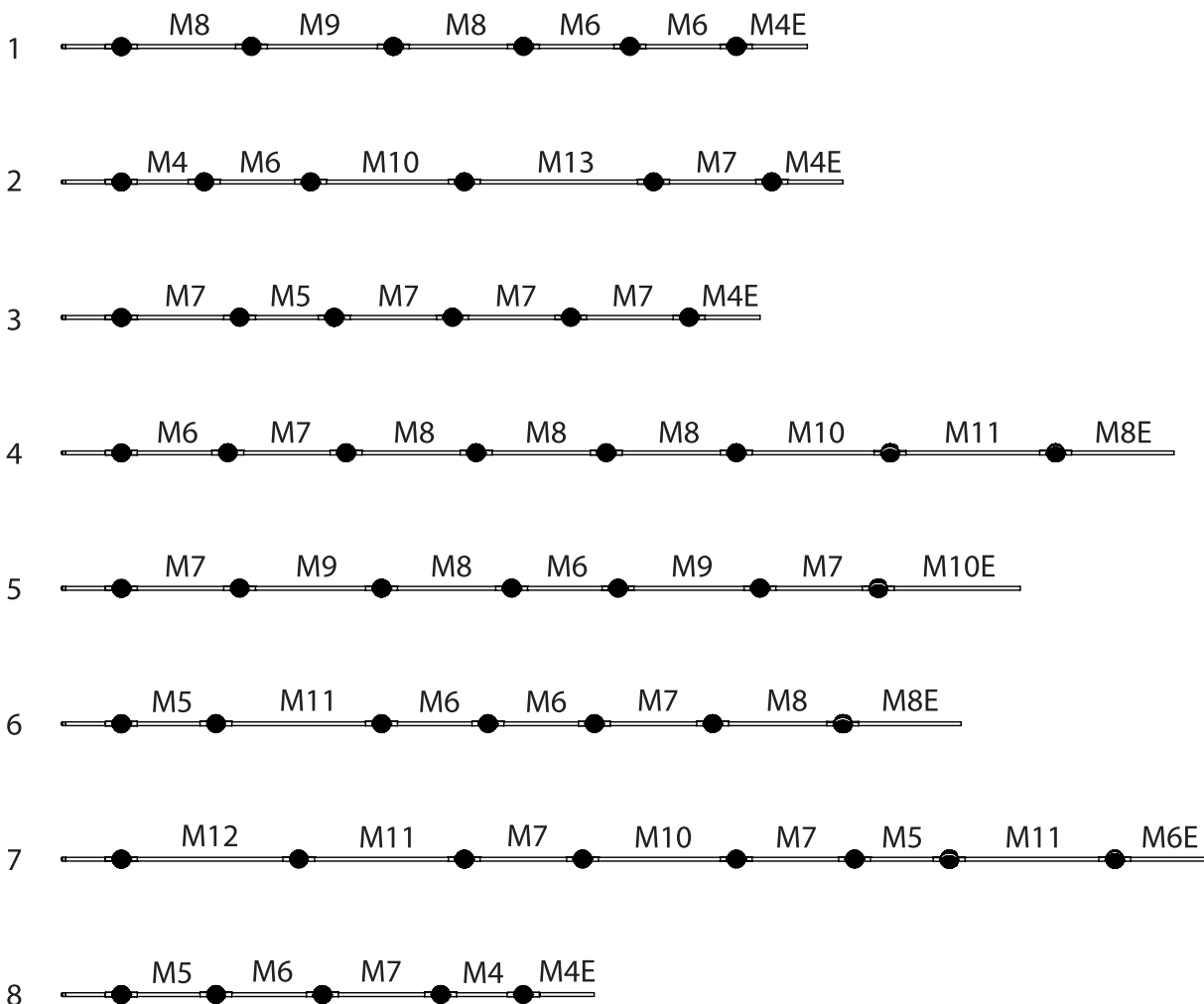
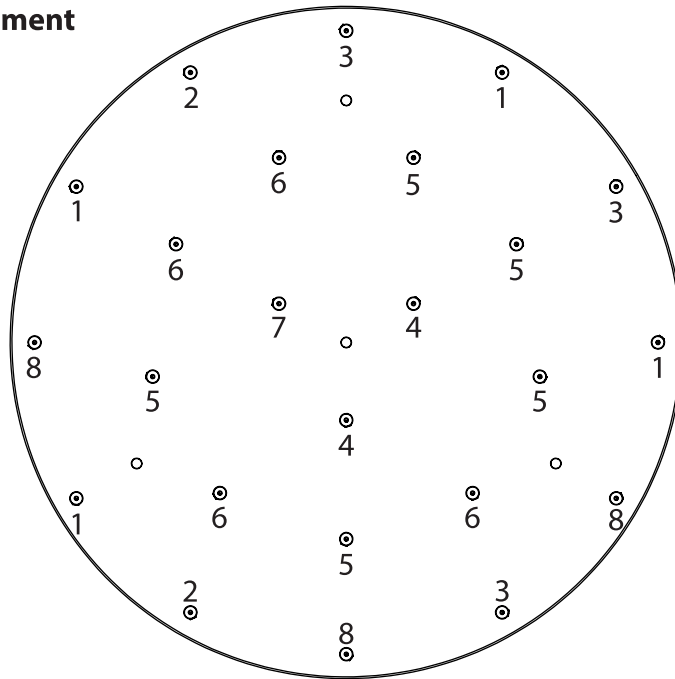


Fig. 2

## 2164.13x String Arrangement

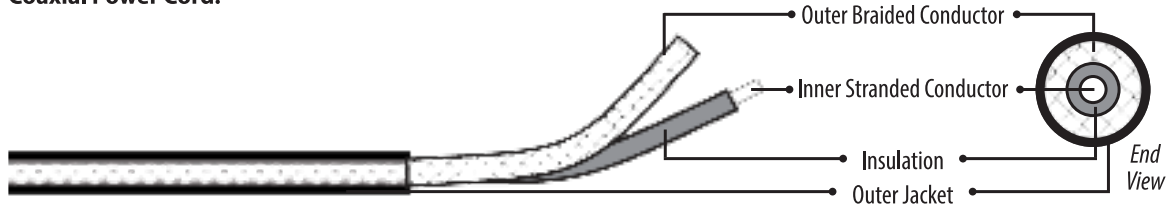


# Coax Splicing Assembly Instructions

INSTRUCTIONS D'INSTALLATION

**FAILURE TO FOLLOW THESE INSTRUCTIONS WILL VOID THE WARRANTY**

Coaxial Power Cord:



If field-cutting is required, please follow the below instructions:

1. Make a 1" slice along the length of the cord's outer jacket (Fig. 1). **CAUTION: Do not cut through the outer braided conductor.**
2. Carefully strip the outer jacket of the cord and keep the outer braided conductors intact (Fig. 1).
3. Slide the outer braided conductor back to create a bulge and reveal the inner stranded conductor (Fig. 2).
4. Bend the cord to create an opening through the bunched-up portion of outer braided conductor, then pull out the inner stranded conductor (Fig. 3)
5. Twist together the outer braided conductor to form the negative wire of the fixture, then strip 5/8" off the end of the inner stranded conductor to form the positive wire of the fixture (Fig. 4).
6. Re-splice all power cords.

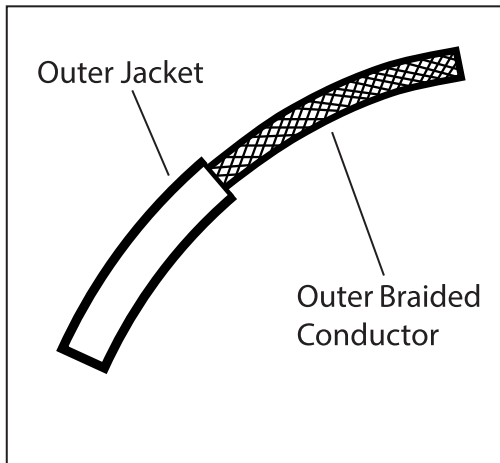


Fig. 1

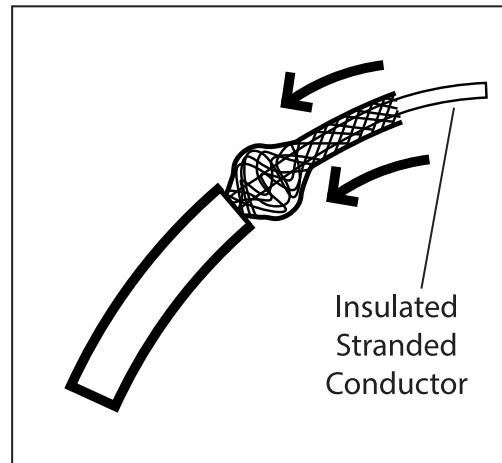


Fig. 2

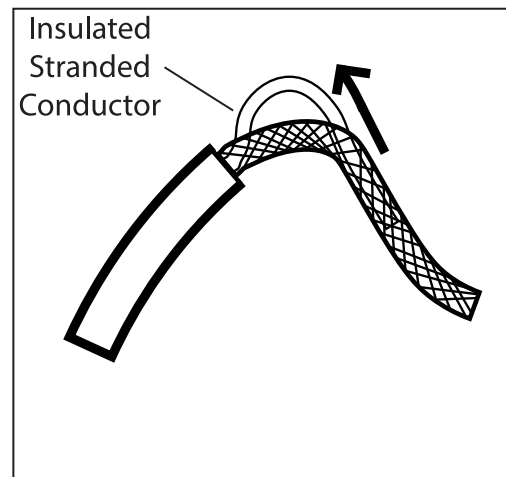


Fig. 3

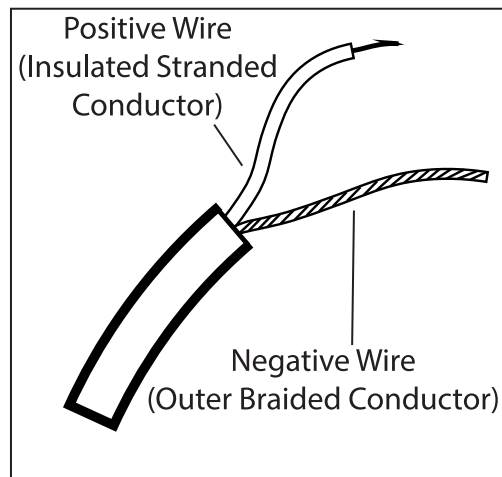
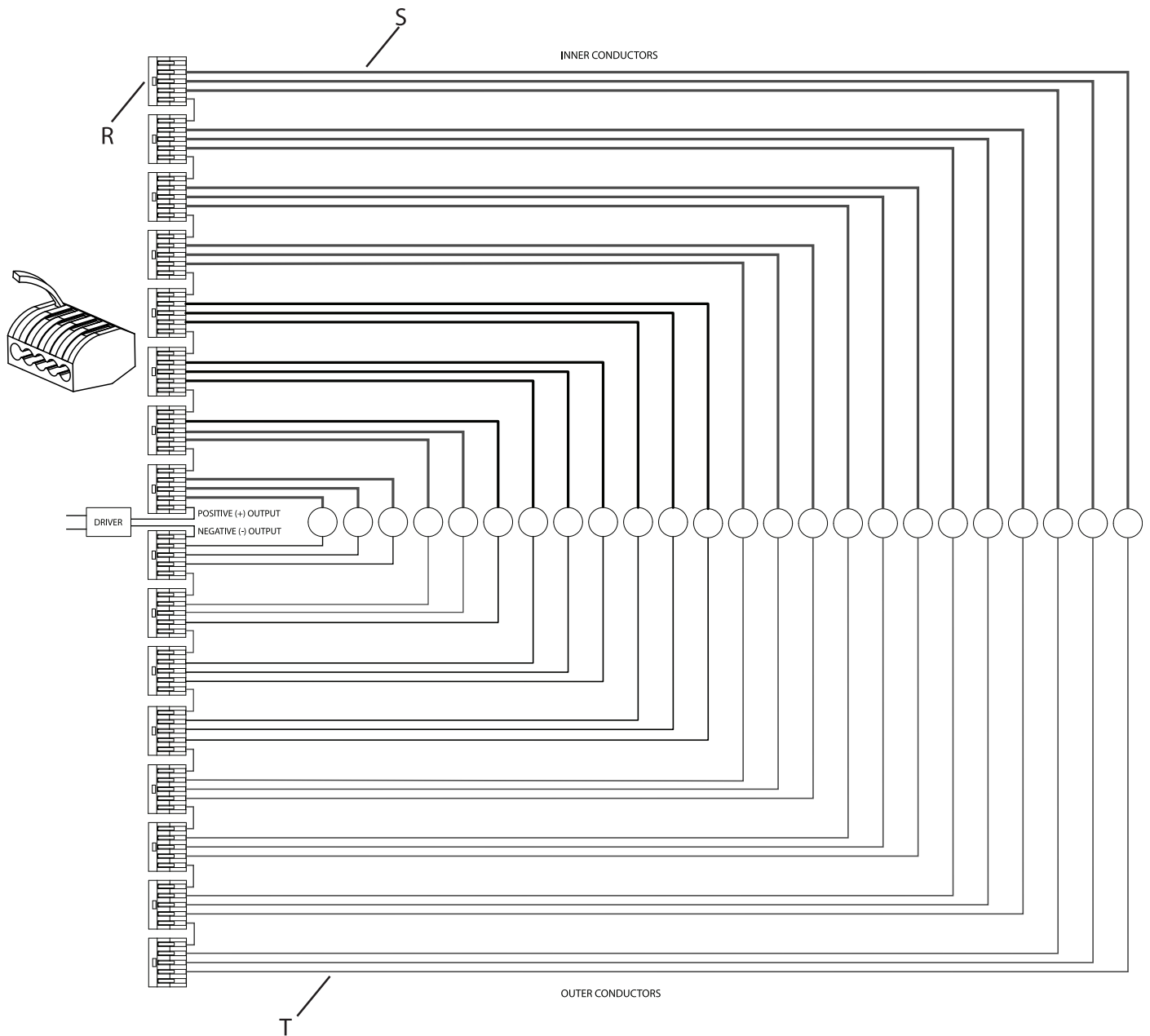


Fig. 4



Connect the fixture wires to the lever nuts (R) by pulling up on the lever for an empty slot, inserting the wire, and pushing the lever back down to lock. The red inner conductor (S) and black outer conductor (T) on each cord (C) must be connected to separate lever nuts, as shown.



**Note**

- See markings on LED Driver for compatible dimmer types.

**Care Instructions**

- **Dusting:** Use a clean, dry cloth.
- **Cleaning:** To protect the finish, avoid any harsh abrasives or chemicals.