

2165.13x - Andromeda

# Constellation™

assembly instructions

SONNEMAN®  
A WAY OF LIGHT

# Constellation™ Product Information and Warnings

## Important

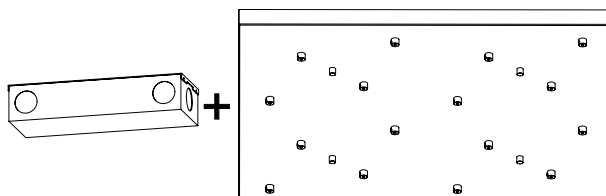
- **Always disconnect the power before installing or replacing Luminaires and before cleaning or other maintenance.**
- **Consult a qualified, licensed electrician to ensure correct branch circuit conductor.**  
*Consulter un électricien qualifié pour vous assurer que les conducteurs de la dérivation 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.

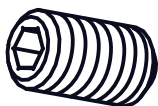
### WHAT COMES IN THE BOX

#### Power Feed and Supply

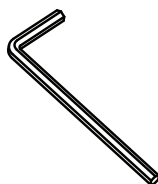


Remote Power Supply w/ Canopy  
(Qty 1)

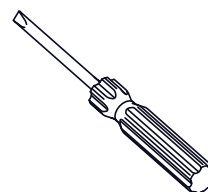
#### Power Feed Hardware



Canopy Set Screw  
(Qty 16+)

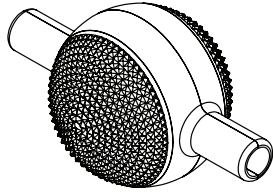


Medium Hex Wrench  
(Qty 1+)

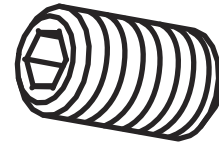


Screwdriver  
(Qty 1+)

## Hubs



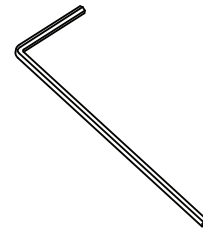
Universal Hub  
(Qty 96)



M2 Set Screw  
(Qty 192+)

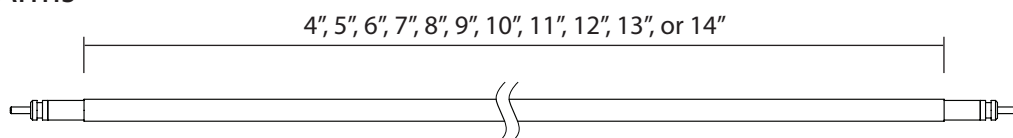


Power Connector  
(Qty 16)

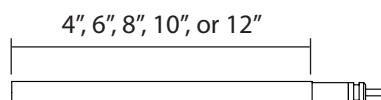


Small Hex Wrench  
(Qty 3+)

## Arms



Connecting Arm



End Arm

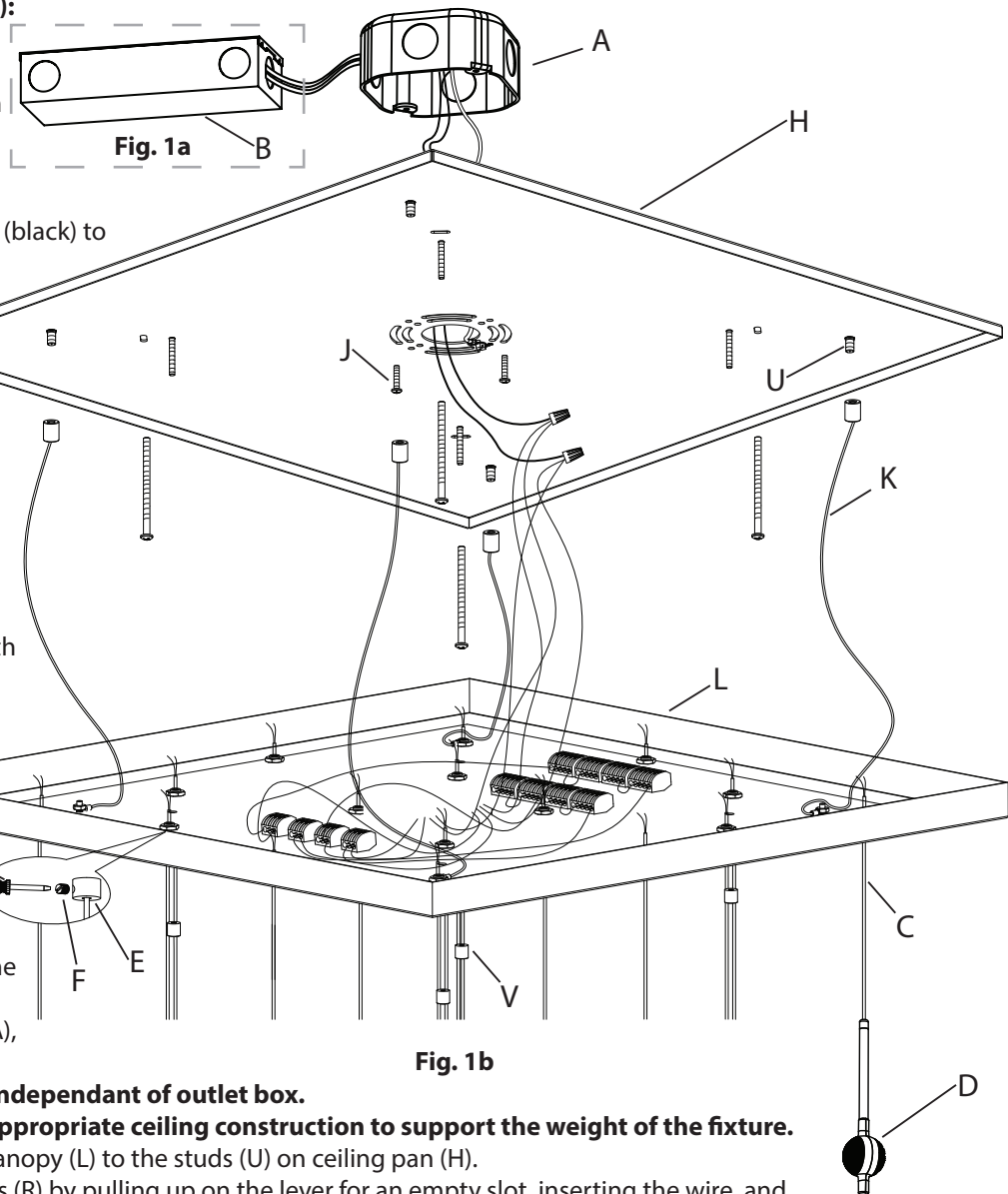
## ARM QUANTITIES OF ANDROMEDA

Connecting Arms	
Arm #	Qty
21XB011304	4
21XB011305	16
21XB011306	12
21XB011307	26
21XB011308	14
21XB011309	6
21XB011311	2

End Arms	
System #	Qty
21XB021306	4
21XB021308	10
21XB021310	2

## 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 (red) to the required length of red wire (not included) to reach the Outlet Box (A).
  - e. Connect the Power Supply's negative (-) output wire (black) to the required length of black wire (not included) to reach the Outlet Box (A).



## 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.
4. Attach ceiling pan (H) to the outlet box (A), secure with outlet box screws (J).

Fig. 1b

**CAUTION: Fixture must be supported independent of outlet box.**

**Customer is responsible for ensuring appropriate ceiling construction to support the weight of the fixture.**

5. Screw the safety cable couplings (K) on canopy (L) to the studs (U) on ceiling pan (H).
6. 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 white inner conductor (S) and black outer conductor (T) on each cord (C) must be connected to separate lever nuts, as shown in Appendix B. If shortening of the cord is necessary see Appendix A.
7. Reserve extra cords (C) and lever nuts (R) in canopy (L).
8. Attach canopy (L) to ceiling pan (H), secure with finials (V).

## 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.**

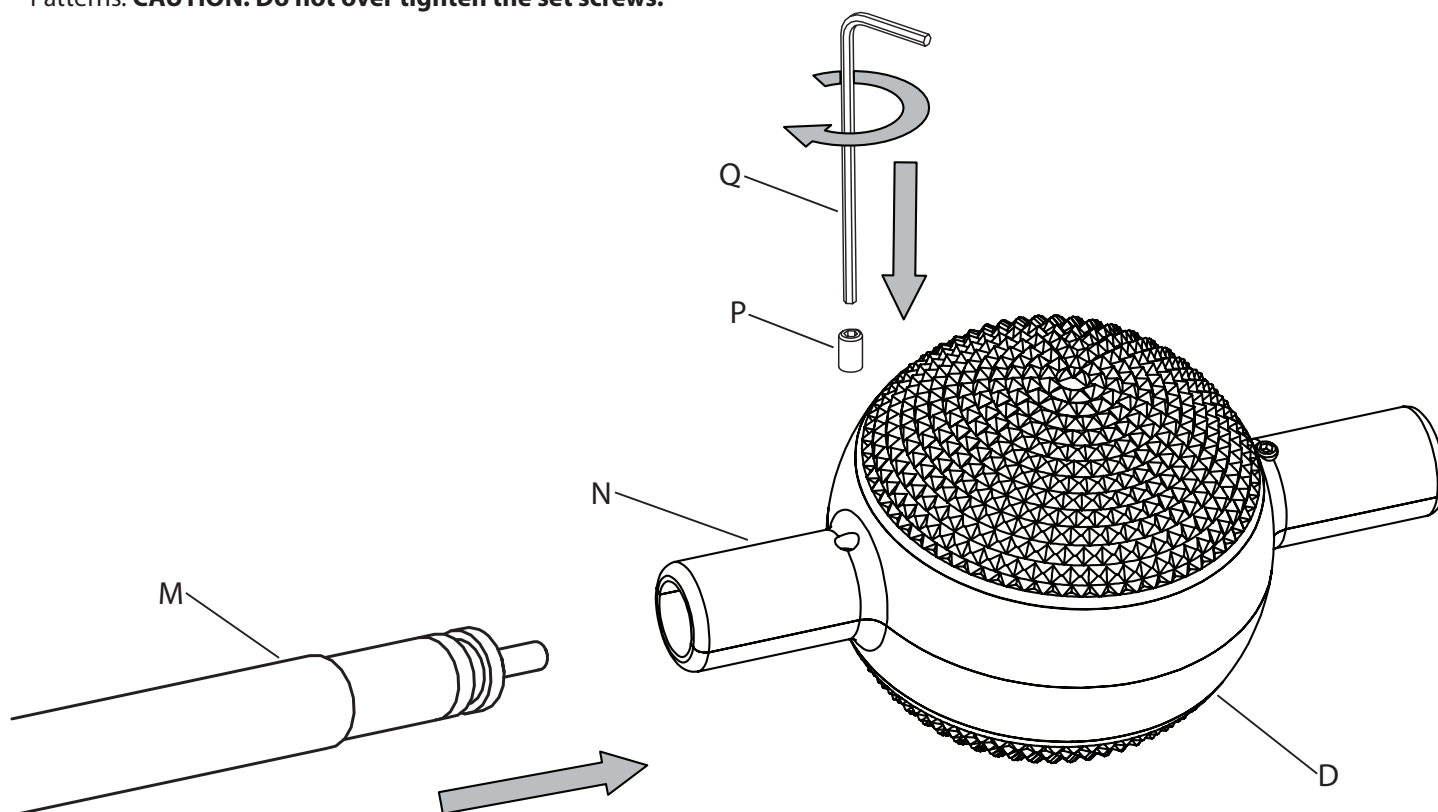
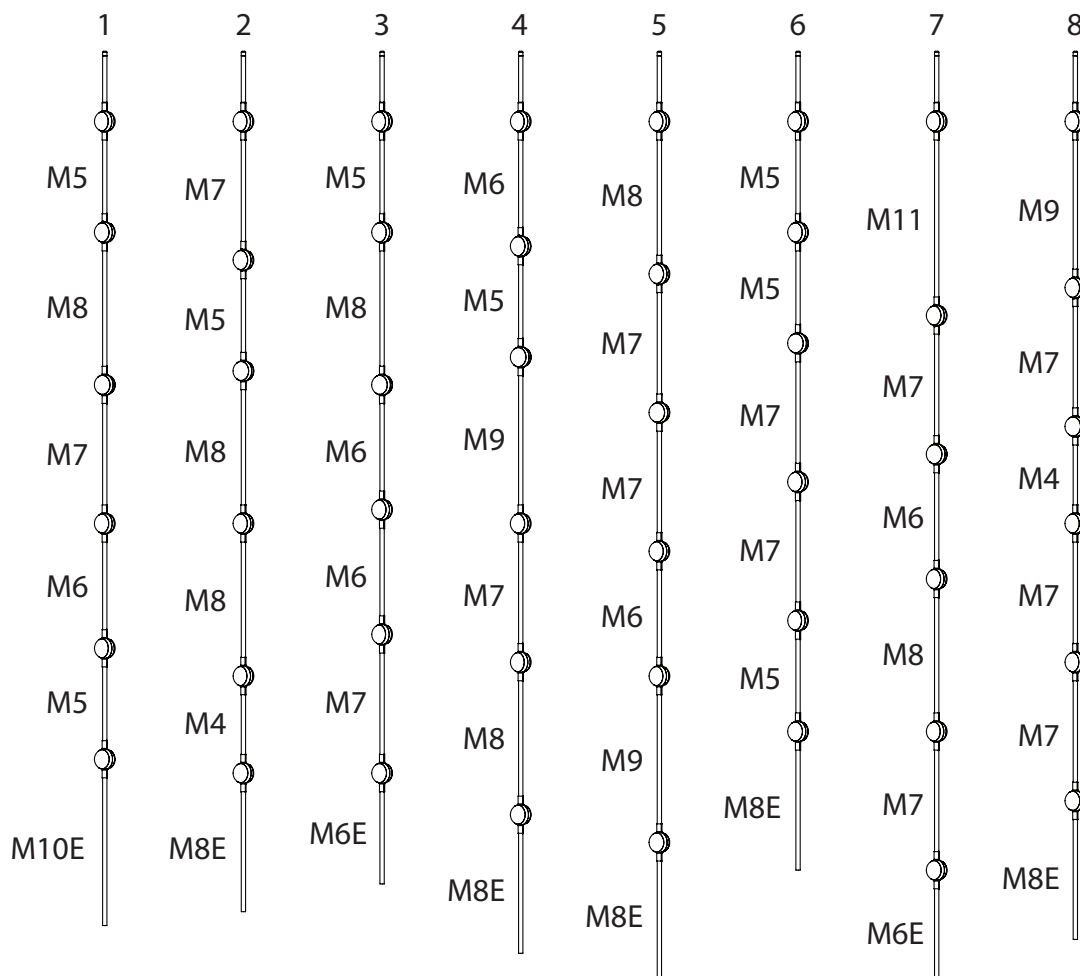
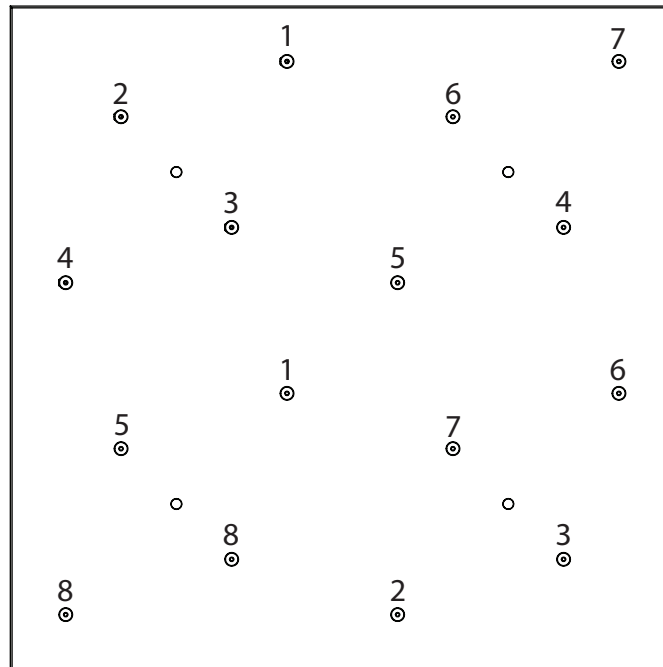


Fig. 2

Connecting Arm Key	
M4	4 <sup>1</sup> / <sub>4</sub> " Connecting Arm
M5	5 <sup>1</sup> / <sub>4</sub> " Connecting Arm
M6	6 <sup>1</sup> / <sub>4</sub> " Connecting Arm
M7	7 <sup>1</sup> / <sub>4</sub> " Connecting Arm
M8	8 <sup>1</sup> / <sub>4</sub> " Connecting Arm
M9	9 <sup>1</sup> / <sub>4</sub> " Connecting Arm
M11	11 <sup>1</sup> / <sub>4</sub> " Connecting Arm

End Arm Key	
M6E	6 <sup>1</sup> / <sub>2</sub> " End Arm
M8E	8 <sup>1</sup> / <sub>2</sub> " End Arm
M10E	10 <sup>1</sup> / <sub>2</sub> " End Arm

**2165.13x String Arrangement**



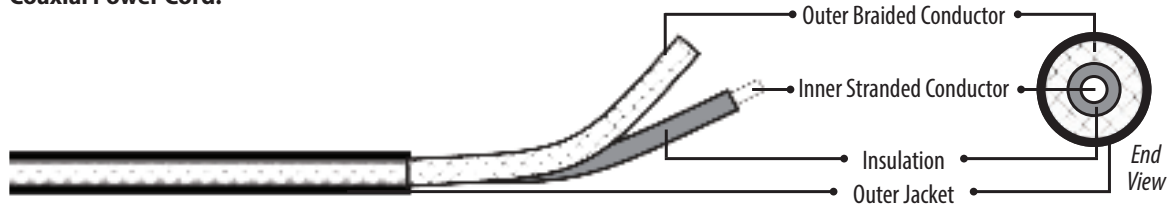


# Coax Splicing Assembly Instructions

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.

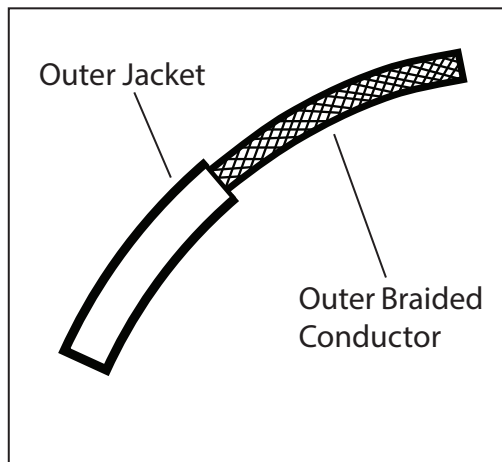


Fig. 1

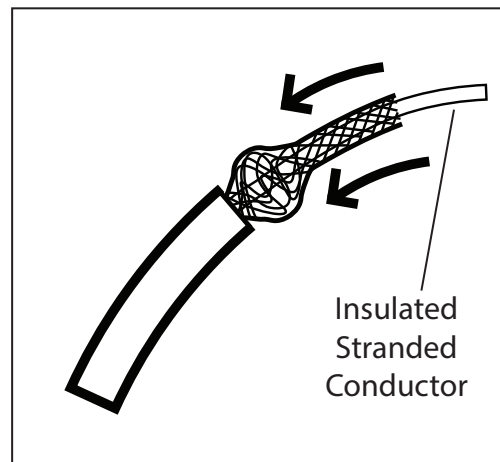


Fig. 2

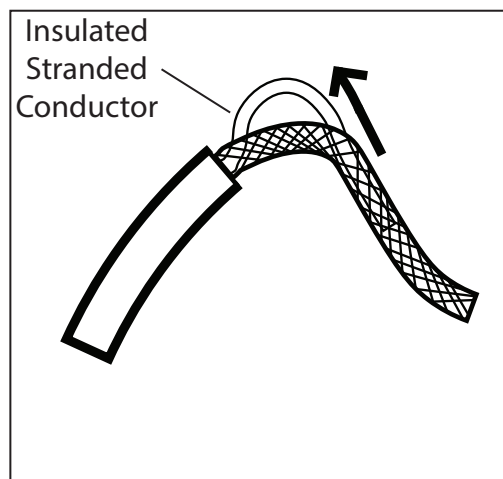


Fig. 3

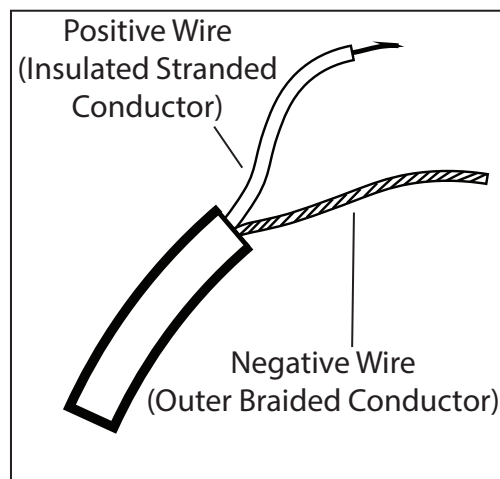
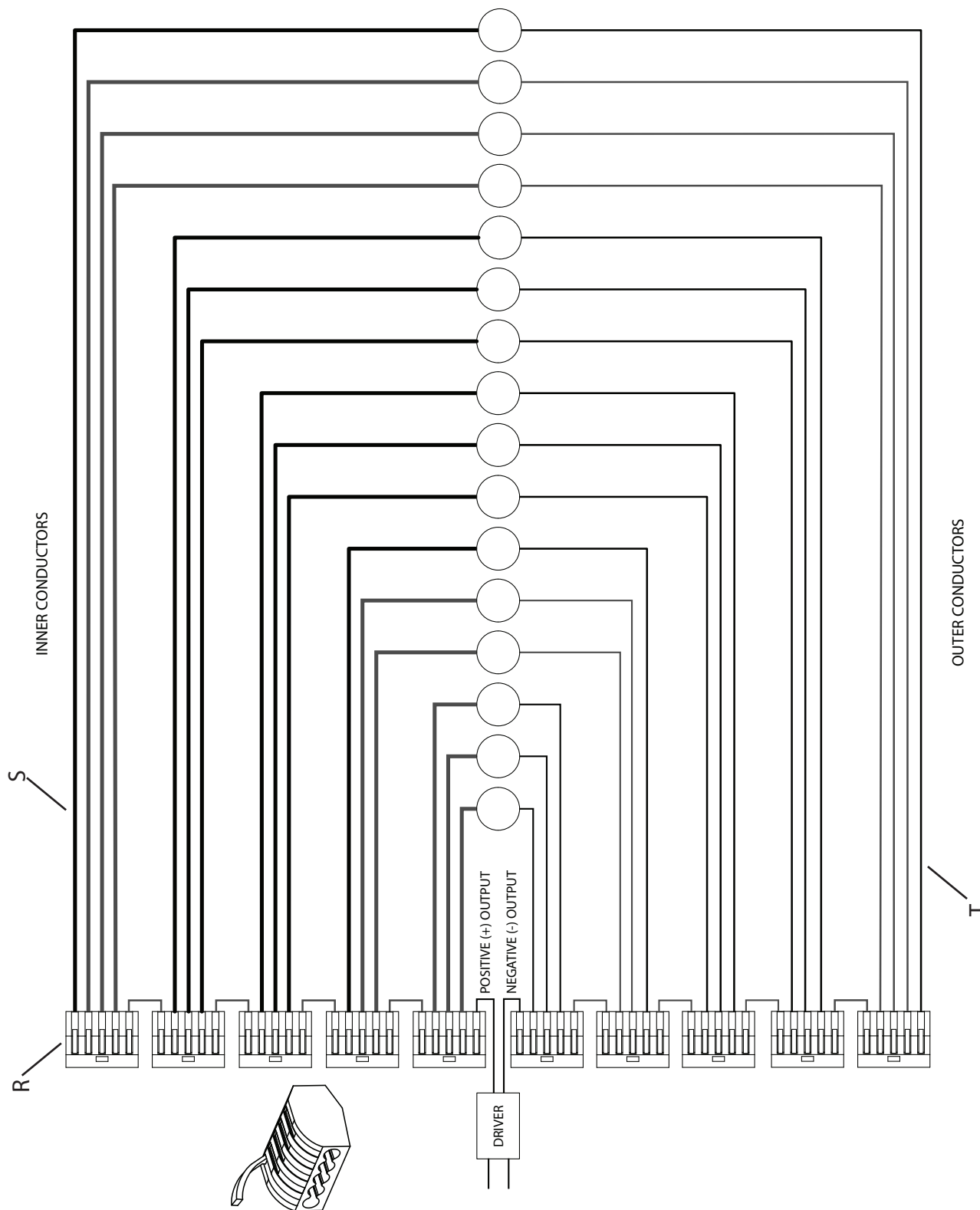


Fig. 4



#### Note

- See markings on LED Dimmer for compatible dimmer types.

#### Care Instructions

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