INSTALLATION GUIDE
SIRS-E® StripFlexLED™ White LED Strip Lights

INTRODUCTION

Thank you for choosing the **SIRS-E® StripFlexLED™ White LED Strip Lights**. Designed for versatility and superior performance, these LED strips provide high-intensity illumination and precise color rendering, making them ideal for a wide range of residential, commercial, and industrial lighting applications. Manufactured in the USA and UL Listed, this product guarantees reliability, energy efficiency, and safety compliance.

This guide will walk you through the complete installation process, ensuring optimal functionality and longevity for your lighting solution.

Access the StripFlexLED™ Video content by scanning the QR code.

PRODUCT OVERVIEW
KEY FEATURES

- **High Brightness:** Equipped with high-intensity white LEDs offering adjustable brightness levels.
- **Color Temperature Options:** Available in **2700K, 3000K, 4000K, 5000K,** and **6500K,** catering to diverse lighting needs.
- **Customizable Length:** Cuttable, enabling tailored installations.
- **Reliable Adhesion:** Backed with **3M adhesive tape** for secure and hassle-free mounting.
- **Energy Efficient:** Operates on low-voltage power, ensuring cost-effective performance.
- **Durable Build:** Rated for up to **75,000 hours** of operation.
- **Safe and Certified:** UL Listed and damp-rated for indoor use.

PRODUCT CONTENTS

- **1x** StripFlexLED™ White LED Strip
- **1x** Extension Connector
- **1x** Splice Connector
- **2x** Mounting Clips

Included connector accessories.

TECHNICAL SPECIFICATIONS

VOLTAGE	LED DENSITY (PER METER)	LUMENS (PER FOOT)	WATTS (PER FOOT)	CRI	WIDTH	BEAM ANGLE
12V	60 LEDs	330	3.0	95	8 mm	120°
12V	120 LEDs	660	6.3	95	8 mm	120°
24V	60 LEDs	330	2.9	95	8 mm	120°
24V	120 LEDs	660	5.9	95	8 mm	120°

For complete power consumption details, please refer to the datasheet.

Color Temperature Options

- 2700K: Warm White
- 3000K: Soft White
- 4000K: Neutral White
- 5000K: Cool White
- 6500K: Daylight White

Note: A compatible power supply is required for operation (sold separately).

VOLTAGE DROP AND POWER SETUP OPTIONS

Understanding Voltage Drop: Voltage drop occurs when electrical current flows through the LED strip, causing a gradual reduction in brightness over long distances. Minimize voltage drop by using appropriate gauge wires, limiting strip lengths, and planning power connections strategically.
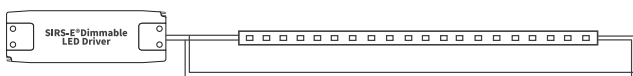
POWER SETUP OPTIONS

- **Power from One End:** Simple configuration suitable for shorter runs with minimal voltage drop.
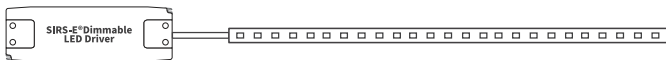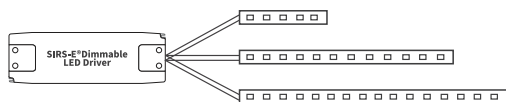

- **Power from Center:** Powers the strip from the middle to ensure even brightness for medium-length installations.
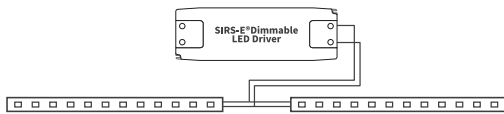
- **Power from Both Ends:** Connect power to both ends to maintain uniform brightness on longer runs.

- **Power Multi Runs:** Power separate strip sections individually to avoid voltage drop across multiple runs.

INSTALLATION INSTRUCTIONS

Step 1: Prepare the Installation Area

1. Ensure the installation surface is **clean, dry,** and **free of dust or grease** to guarantee secure adhesion.
2. Plan the layout of the LED strip. Use measurements to determine the exact length and position of the strip.
3. Confirm the availability of a nearby power outlet or hardwiring connection point.

Step 2: Customize the LED Strip

1. Identify cut points marked on the strip.
2. Use sharp scissors to cut the strip carefully along the designated points to achieve the desired length
3. Avoid cutting outside these points, as it may damage the LED circuit.

Cut Line

Step 3: Apply the LED Strip

1. Peel off the protective backing of the **3M adhesive tape** from the rear side of the strip.
2. Firmly press the strip onto the surface, ensuring smooth application and strong adhesion.
3. Use the included mounting clips for additional stability, especially in areas prone to movement or temperature changes.
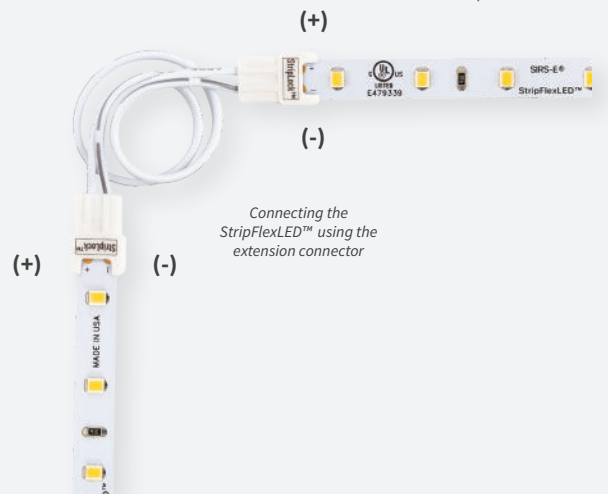
Step 4: Connect to the Power Supply

1. Attach the LED strip wire leads into the power supply's DC output terminals, ensuring the wires are connected to the correct polarity ("+" and "-"). Confirm the polarity markings on the LED strip before securing the connections. Ensure the power supply matches the voltage and power requirements of the LED strip. **Important: The LED strip cannot be connected directly to a 120V AC outlet. A power supply or LED Driver is required.**
2. If you need to extend the wire leads, you can splice additional wire using wire nuts, solder the connections, and secure them with heat shrink tubing for a safe and durable connection.

Step 5: Optional Configurations

1. **Dimmer or Switch Integration:**
   - Add a compatible dimmer or switch to enable brightness control.
   - Follow the manufacturer's instructions for the dimmer or switch installation.
2. **Reconnection:**
   - Use the provided **splice connector** to rejoin sections of the LED strip or the **extension connectors** to create extensions around corners.

Connecting the StripFlexLED™ using the splice connector

Connecting the StripFlexLED™ using the extension connector

Step 6: Power On and Test

1. Plug the power supply into an electrical outlet or connect to a hardwired system.
2. Turn on the system and verify that all sections of the strip are functioning correctly.
3. Adjust brightness using a dimmer if applicable.

MAINTENANCE AND CARE

1. **Cleaning:** Gently clean the strip with a soft, dry cloth. Avoid using water or harsh cleaning agents.
2. **Inspection:** Periodically check connections, adhesion, and mounting clips to ensure optimal performance.
3. **Replacement:** Damaged sections can be replaced by cutting and reconnecting using the provided splice connectors.

TROUBLESHOOTING

ISSUE	POSSIBLE CAUSE	SOLUTION
LED strip does not light up	Loose connection	Recheck and secure all connections.
Uneven brightness	Inadequate power supply	Ensure power supply matches voltage.
Sections not lighting	Improper cutting or damage	Replace damaged sections.

For further assistance, contact SIRS-E® Customer Support at **(281) 324-0908**. https://sirs-e.us/contact-us

SAFETY INFORMATION

- Disconnect power before installation or maintenance.
- The **LED strip cannot be connected directly to a 120V AC outlet**. For safe operation, use a compatible DC LED Driver or power supply.
- Operate within the specified voltage limits to avoid damage.
- Install only in indoor, **dry environments**.
- Do not exceed the maximum recommended length for the power supply.

WARRANTY INFORMATION

This product is covered by a **3-year limited warranty**. For detailed warranty terms and conditions, please visit our website or contact our support team.

Thank you for selecting SIRS-E® StripFlexLED™ White LED Strip Lights. We are committed to providing the highest quality lighting solutions. For additional accessories, replacements, or inquiries, visit www.sirs-e.us.

MADE IN USA

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