

LED Railing

LED Strip Light Installation Instructions



LIGHTING SAFETY INSTRUCTIONS:

READ THE INSTALLATION INSTRUCTIONS IN THEIR ENTIRETY BEFORE INSTALLING. IT IS IMPORTANT TO LEAVE THESE INSTRUCTIONS WITH THE OWNER OR FACILITY MANAGER OF THE BUILDING FOR FUTURE REFERENCE.

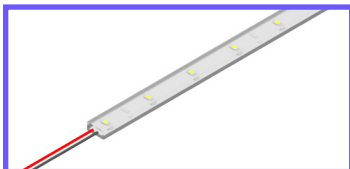
- CAUTION: Installation must be performed by a licensed electrician and all wiring must conform to local, state and national electrical codes.
- LED driver: 24VDC, Class 2, configured in a listed system of components.
- Mount remote driver(s) in an electrical room or NEMA rated enclosure.
- Systems may be used in a wet location with a suitably rated enclosure and connections.
- All electrical components must be grounded and connected to GFCI per local codes and/or the NEC.
- This product must be installed in a manner consistent with its intended use.
- For trouble-shooting, installation questions and replacement component orders, contact Sightline Commercial Solutions at 877-215-7245 or info@sightlinecommercial.com

RAILING SAFETY INSTRUCTIONS:

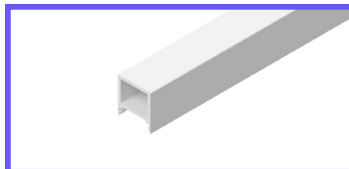
SIGHTLINE COMMERCIAL SOLUTIONS ARCHITECTURAL SYSTEMS ARE ENGINEERED TO MEET IBC, ADA AND NFPA WHEN PROPERLY INSTALLED.

- Check and confirm all local railing code requirements..
- CAUTION: It is highly recommended that a professional railing installer be used for ANY rail system, illuminated or not.
- Please contact the factory for field installations: 877-215-7245 or email us: info@sightlinecommercial.com

SUPPLIED PARTS:



Strip Light



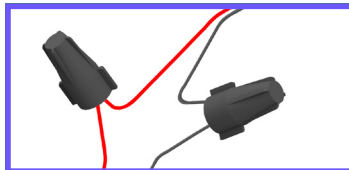
Internal Plastic Housing



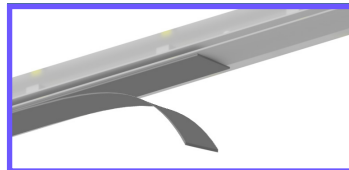
Snap Fit Lens



Twist Barrel Connectors



Wet Location Rated Wire Nuts



Double Sided Foam Adhesive Tape

WARNING:

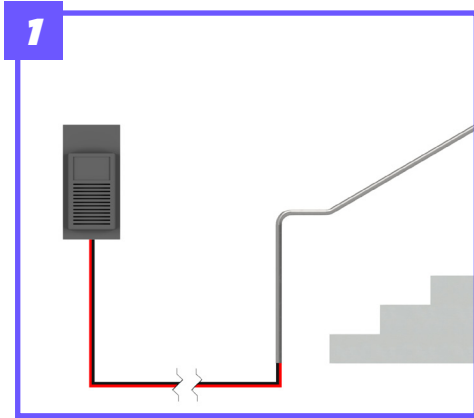
TO REDUCE RISK OF ELECTRIC SHOCK, TURN OFF THE ELECTRICAL SUPPLY BEFORE INSTALLING OR SERVICING THE LIGHT FIXTURES AND DRIVER. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY AND/OR DAMAGE TO THE COMPONENTS.

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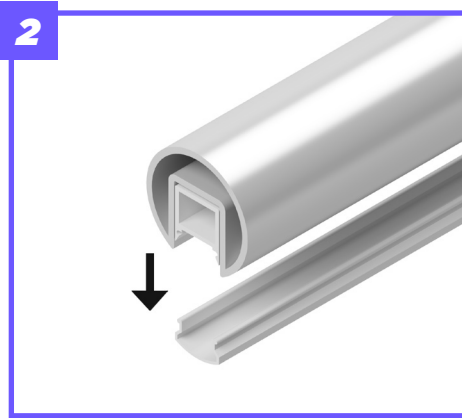
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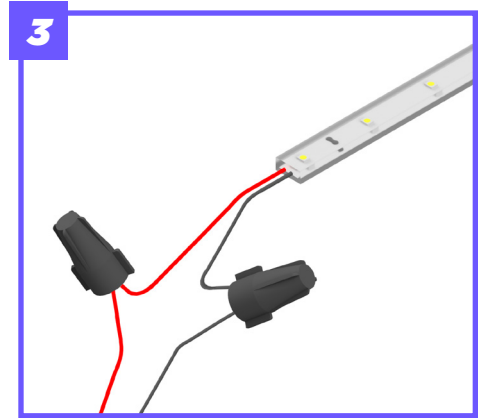
To reduce the risk of electrical shock, turn off the power supply before installing or servicing lighting equipment.



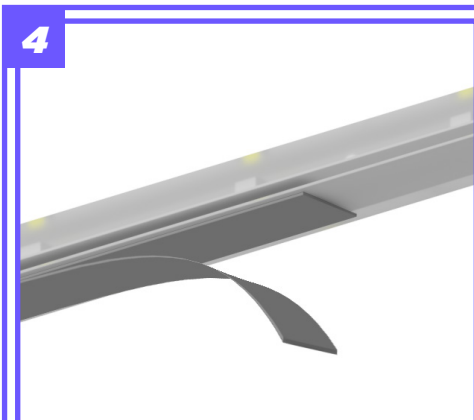
1 Run 24VDC positive and negative wires (by others) from remote mounted power supply to handrail location and first light strip. Refer to the table below for wire gauge/distance recommendations.



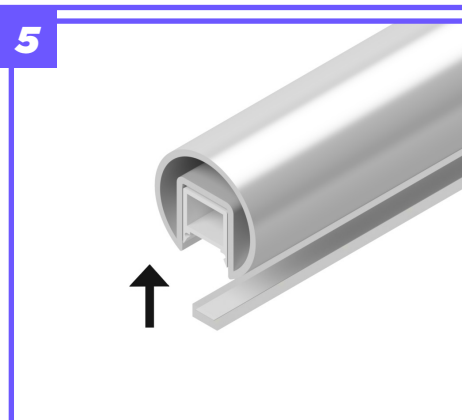
2 Remove Snap fit lens. Set aside.



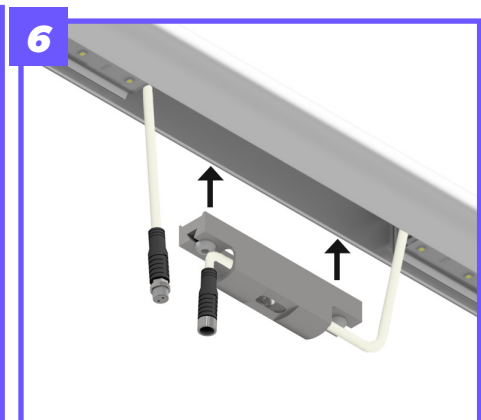
3 Locate the first fixture to be connected to the main 24VDC power supply. Use the provided silicone field wire nuts to connect the positive (+) 24VDC (red) leads & negative (-) 24VDC (black or white) together. Ensure the polarity of the connectors is maintained through the installation.



4 Peel the protective cover off the light strip adhesive backing.



5 Press fit the light strip onto the plastic internal housing. Ensure light is center on the notch in the housing as well as between the ends of the housing.



6 Locate all the gaps in the internal plastic housing. Feed one side of the connector/wires thru the gaps of the adapter bracket to align with the adjacent LED strip connector/wires.

**Adapter bracket attached to standoff or post before this step. Standoff/post not shown for clarity.*

***Barrel connector shown. Step is same for bare wires.*

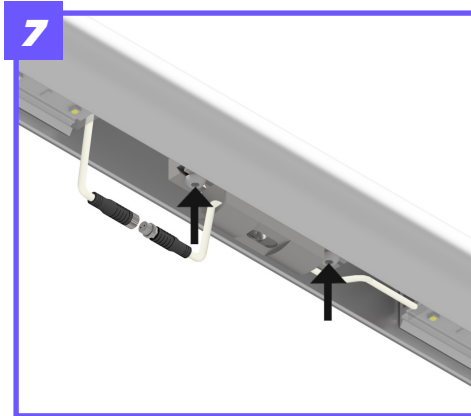
Steps 4 & 5 only required for conditions when LED strip light is shipped separately from railing. For conditions where LED strip light is factory installed skip to step 6.

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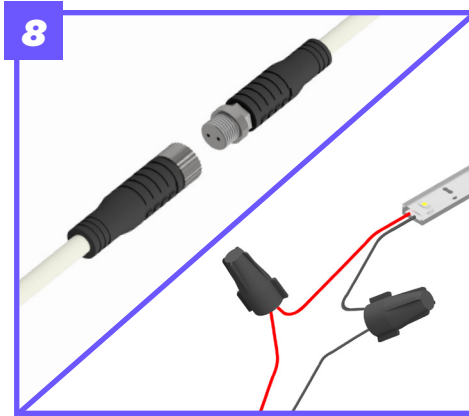
To reduce the risk of electrical shock, turn off the power supply before installing or servicing lighting equipment.



Press the standoff adapter brackets into the handrail. Tighten screws with an allen wrench.

* Standoff/post not shown for clarity.

**Barrel connector shown. Step is same for bare wires.



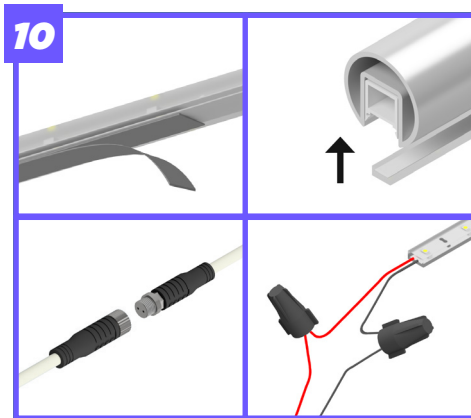
If supplied with barrel connectors - connect the male end to the female end of adjacent strips at rail splice locations. If supplied with bare wire leads - use the provided silicone filled wire nuts to connect the positive (+) 24VDC (red) leads & negative (-) 24VDC (black or white) together. Ensure the polarity of the connectors is maintained throughout the installation.



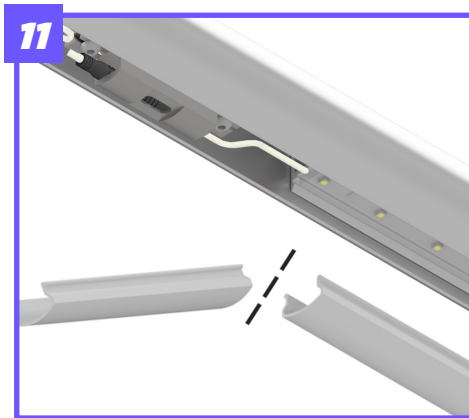
After system is tested, tuck all connectors and wires into rail channel and bracket adapter.

* Standoff/post not shown for clarity.

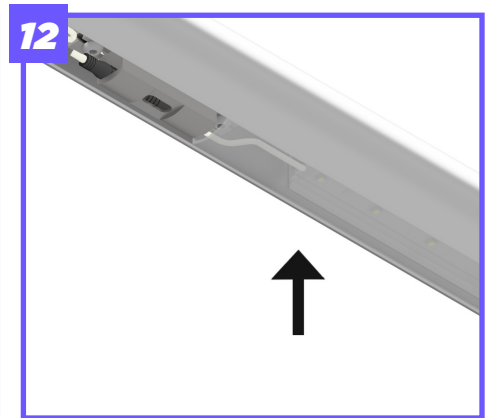
**Barrel connector shown. Step is same for bare wires



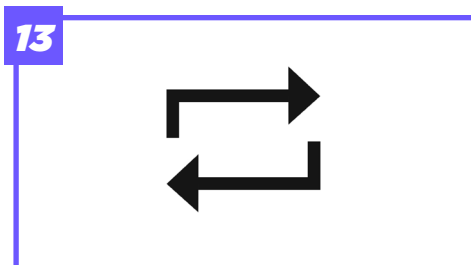
Repeat steps 4-9 for all connector locations.



Measure and cut plastic lens to fit between standoff brackets.



Snap lenses onto internal housing. Note: Cut back internal plastic housing as needed to ensure all connectors fit within lens.



Repeat all processes for all handrail locations.

MAXIMUM REMOTE DISTANCE (ft) - 100W (76 W USABLE)					
Strip - Max Length	10 AWG	12 AWG	14 AWG	16 AWG	18 AWG
3.0W/ft - 25'	110	70	45	28	17
4.0W/ft - 19'	110	70	45	28	17
5.0W/ft - 15'	110	70	45	28	17

Actual distance may vary depending on the total load. Verify all distance calculations with overall design of system. Conductor supply and gauge specification by others.