EASY LINE - Frost

RGB, Remote 24VDC

designplan

installation instructions

> ⚠ **INSTRUCTIONS PERTAINING TO RISK OF FIRE OR INJURY TO PERSONS. READ ALL INSTRUCTIONS. IMPORTANT SAFETY INSTRUCTIONS. SAVE THESE INSTRUCTIONS.**

DANGER - RISK OF SHOCK - DISCONNECT POWER BEFORE INSTALLATION! Please read all instructions before installation.

- Keep these instructions for future reference.
- Must be installed by a qualified electrician in accordance with national and local standards. Designplan is not responsible for fixtures installed without regard to these standards.
- Unauthorized alterations or tampering of product voids warranty.
- The main power connection must be in accordance with local electrical codes.
- Suitable for OUTDOOR or INDOOR applications.

ETL Intertek **IP65/IP68**

Electrical Connections:

- LED lights must be **connected in parallel** respecting polarities.
- **CHOOSE POWER SUPPLY ACCORDINGLY.** Please consider the voltage through which fixtures are fed as well as the max power consumption.
- **Connect power only if all the fixtures are connected.**
- This unit must be used in conjunction with a suitable fountain rated power supply.
- Use only Class 2 type electronic power supply.
- Never use switches on secondary circuit.

Maintenance

Scheduled maintenance must be carried out once a year on all lighting devices, regardless of appliance class and type of use. It must include the following operations:

- Periodically clean fixtures to remove dirt from gratings and screw heads.
- Check tightness of screws on various parts of the device.
- Check that all cable glands and cables are intact and tight. Check that the glass or plastic lens is intact, and replace it if broken or damaged.
- The internal components such as the ballast, driver, washers and screws must not show clear signs of oxidation or rust. Clear traces of rust and oxidation will indicate the presence of water inside the device.
- In the case of damage, the components must be replaced by original components or spare parts.

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GENERAL INFORMATION

The safety of the luminaire is only ensured if the following instructions are followed properly. Keep these instructions for future maintenance.
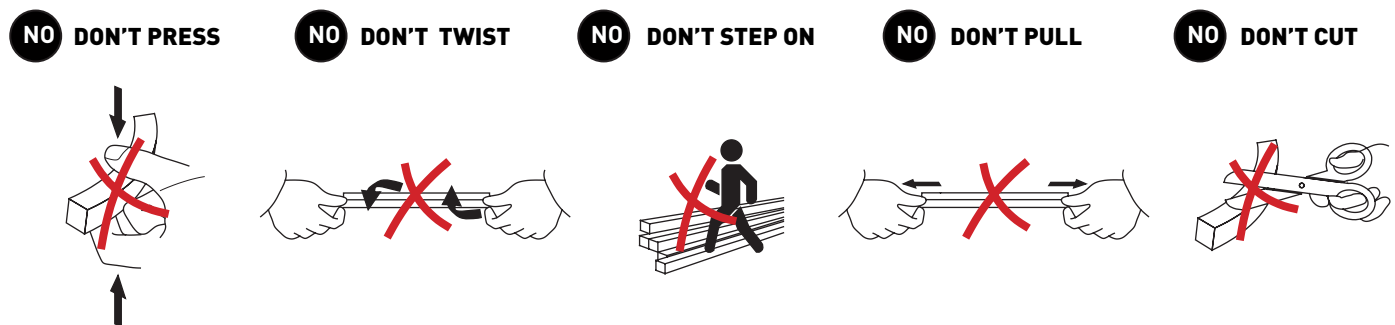
SAFETY INSTRUCTIONS

- It is absolutely necessary to isolate the mains supply before beginning any installation, inspection, maintenance or cleaning;
- Installation and maintenance must be carried out only by trained specialist personnel with appropriate professional qualifications in accordance with the latest electrical installation and safety regulations;
- Installation and operating of this luminaire are subject to international safety regulations. The manufacturer is not liable for damage caused by improper use. Any unapproved modification could avoid the manufacturer's warranty;
- Every kind of modification or manumission of products that has to be installed and used as supplied and in compliance with current regulations is forbidden;
- If malfunctions occur, please directly contact LED ITALY Srl;
- After removing the packaging, check the integrity of the product;
- Not fed to a voltage higher than that shown on the product;
- The maximum admissible ambient temperature of the luminaire may not be exceeded. Surpassing that temperature reduces the service life and, in extreme cases, poses risk of early failure;
- To protect the sensitive surfaces from dirt and fingerprints it is recommended to wear protective gloves during the assembly;
- The appliance is only suitable for installation on non-combustible surfaces;
- The transport and storage of the luminaire must be in the original packaging.
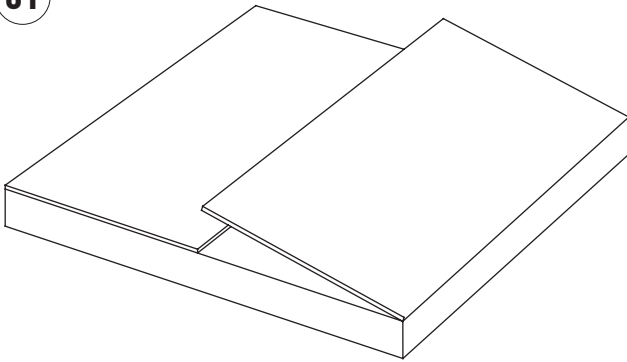
MOUNTING INSTRUCTION

- Best temperature for assembly is between +18 ºC and +45 ºC (+64.4 ºF and +113 ºF);
- Best temperature for storage is between -30° C and +85 ° C (-22 ºF and +185 ºF);
- The installation surface must be dry and clean;
- Surface must be free of dust, grease, oil or separating agents;
- For cleaning use clean cloth and material-compliant detergents like Isopropanol.

Attention: THE PRODUCT'S WARRANTY IS VALID ONLY IF THE INSTRUCTIONS HAVE BEEN OBSERVED.

To avoid

NO DON'T PRESS   **NO** DON'T TWIST   **NO** DON'T STEP ON   **NO** DON'T PULL   **NO** DON'T CUT

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P: 908-996-7710
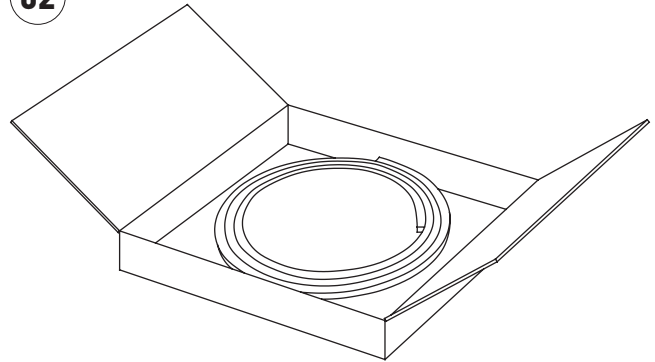F: 908-996-7042

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EASY LINE - Frost

01

OPEN THE PACKAGE CAREFULLY

Make sure not to damage the encapsulation of the product when opening the package with a sharp object (Cutter knife / Scissors), otherwise, no adequate protection of the LED strip is guaranteed. After receiving the package, please check the integrity and completeness of product.

**02**

TEMPERATURE FOR ASSEMBLY

To ensure proper installation, they must be brought to room temperature before installation. Depending on the storage location (-30°C / +85°C), the flexibility of the luminaire can be significantly reduced when temperatures are too low. Warming up to room temperature makes the luminaire flexible for proper assembly. In the case of temperatures below + 18 ° C, keep the product switched on for at least **30 minutes in the place of installation**, before unrolling it.
The best temperature for assembly is between +18°C to +35°C.

03

From 3.28' luminaire length
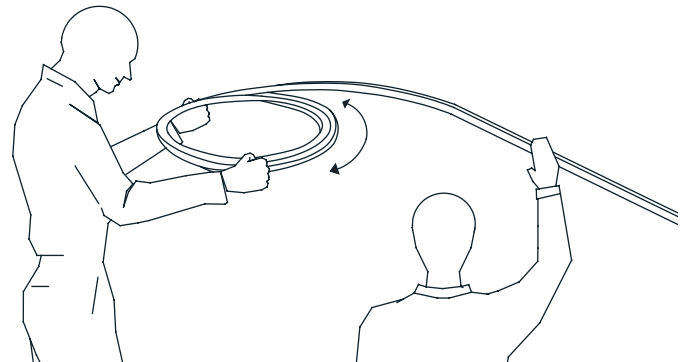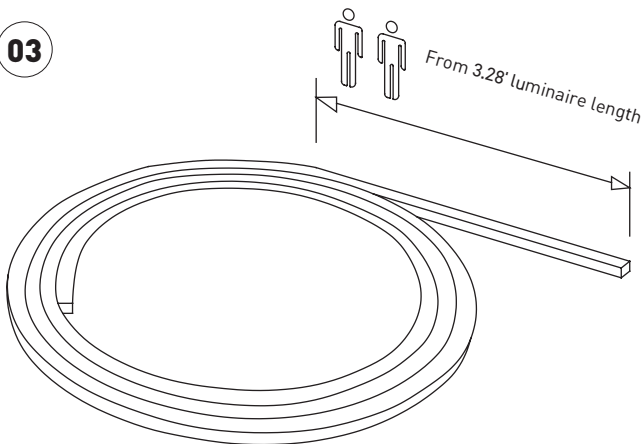
UNROLL THE PRODUCT

Unroll the product gradually and carefully from the packing.

Attention: If the luminaire is longer than 3.28', the installation should be done by two people: one person for pressing the product onto the surface and one person to hold up the package with the rest of the luminaire. During the installation of the product, especially when the product is longer than 6.56', it is important to handle it very careful. Otherwise the conductor tracks in the product can easily be damaged through improper bending.
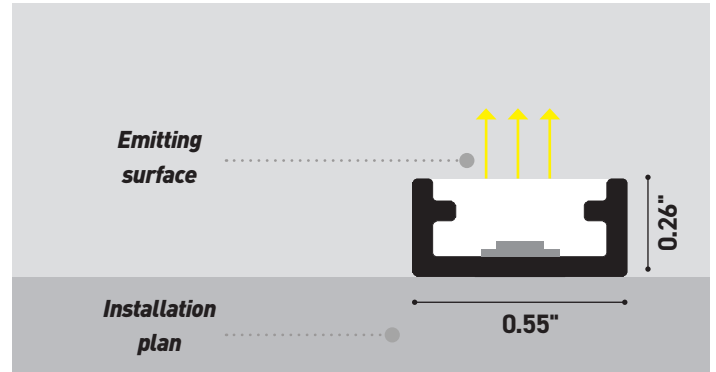It is important to make sure that no part of the product is hanging down.
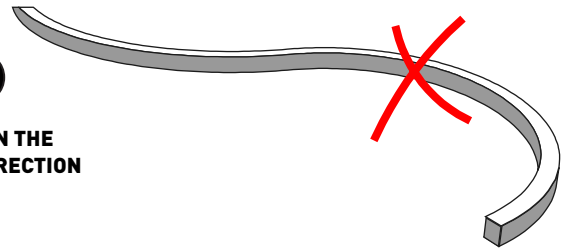Thereby, the bending radius can be undershot and the product can take extensive damage.

# EASY LINE - Frost

TOP EMISSION

VERTICAL BENDABLE

Emitting surface

Installation plan

0.26"

0.55"
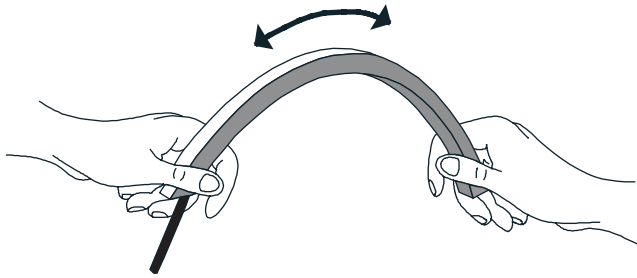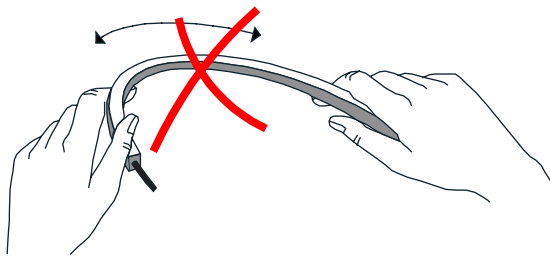
NO

**NO FLEX IN THE OPPOSITE DIRECTION**

Note. *The strip is vertical bendable. Curve the profile only in the indicated axis. In case of non-observance of the given indication, the electrical functionality of the product will be compromised, with consequent luminous interruption of the LED strip. Do not twist it.*


R_{min} 2.36"
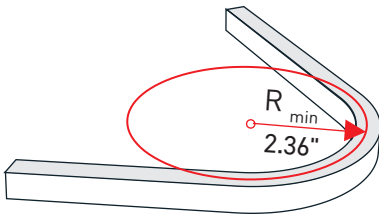
MINIMUM CURVATURE RADIUS

Note. *Do not bend the profile with radius less than 2.36". In case of curvature less than the indicated value, the electrical functionality of the product will be compromised, with consequent luminous interruption of the LED strip.*
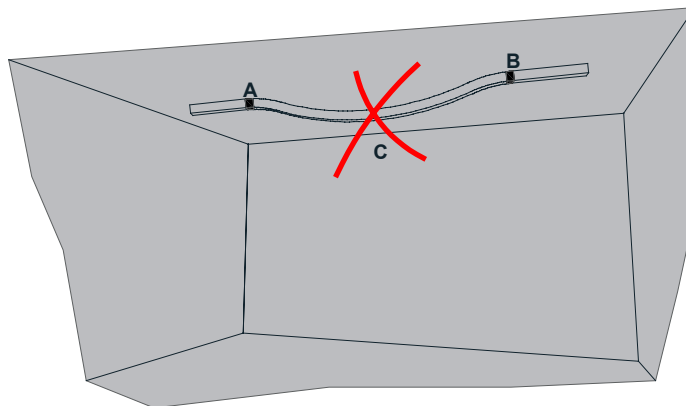
Note. *In the case of a ceiling installation, respect a distance between the two A and B fastening clips of 19.69" to prevent the product from having unwanted bending at the intermediate point C.*

EASY LINE - Frost

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Mounting scheme with *harmonic steel clips*

0.44"
0.39" **0.61"**

0.26"
0.55"

CLIP-AC-14x6.5-AC

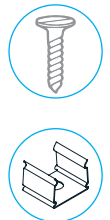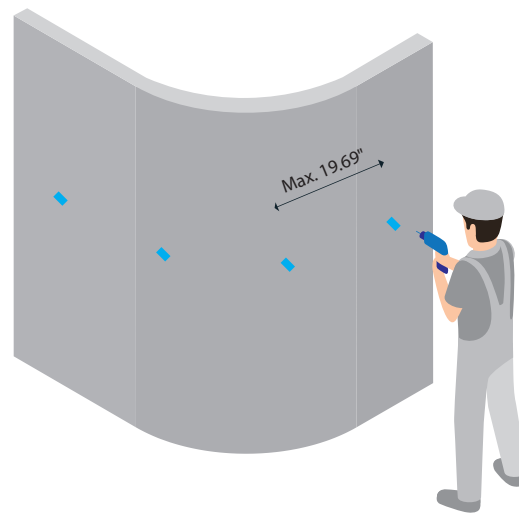**Countersunk screw**
to fix the product
to the installation plane
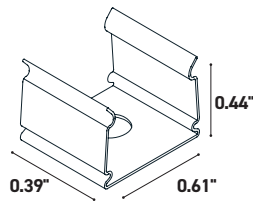
Harmonic steel clips
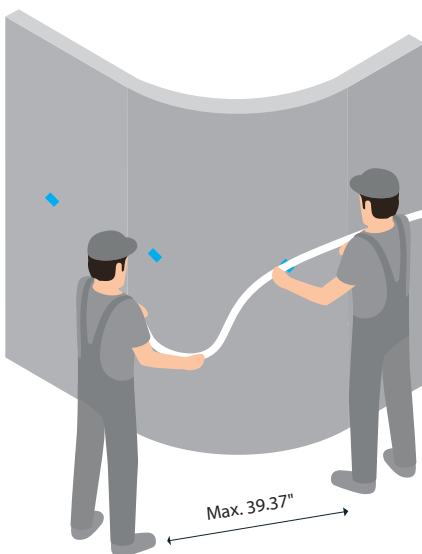*to press-in the LED strip*

LED strip
extruded in flexible PVC and treated
with polyurethane resin

Max. 19.69"

01. Prepare the screw inlet by drilling the installation plan.

Max. 19.69"

02. By placing the clip on the installation plane, fasten it to the same with the countersunk screw.

Max. 39.37"

03. Enter the LED strip in the clip by pressing.

04. Connect.

EASY LINE - Frost

designplan

installation instructions

Mounting scheme with sylicone clips

0.41"
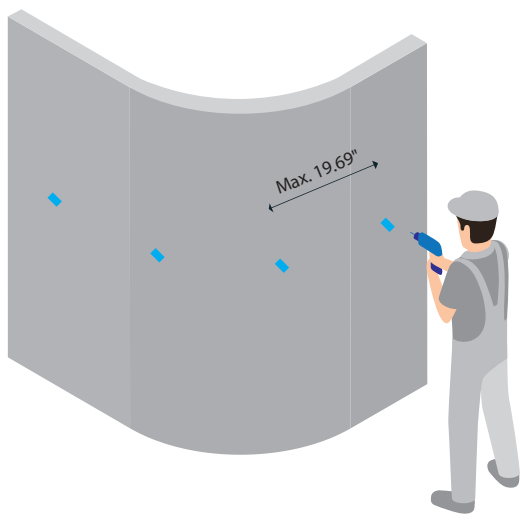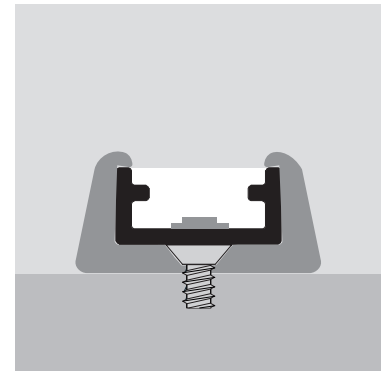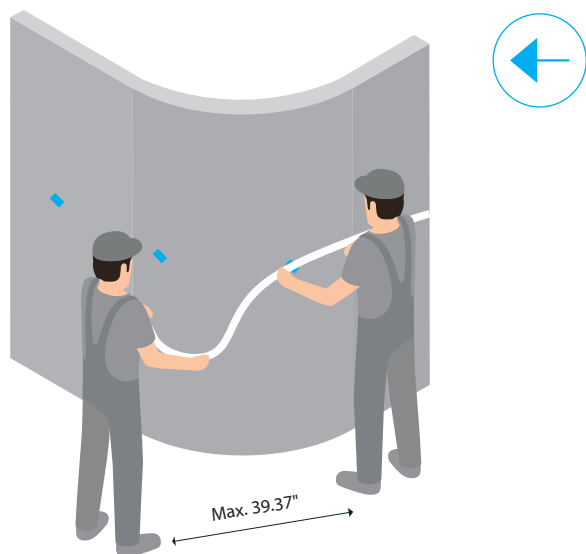**0.79"** **0.93"**

CLIP-S-14x6.5.F/W

0.26"
0.55"

Countersunk screw
to fix the product
to the installation plane

Sylicone clips
to press-in the LED strip
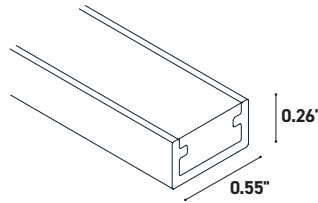
LED strip
extruded in flexible PVC and treated
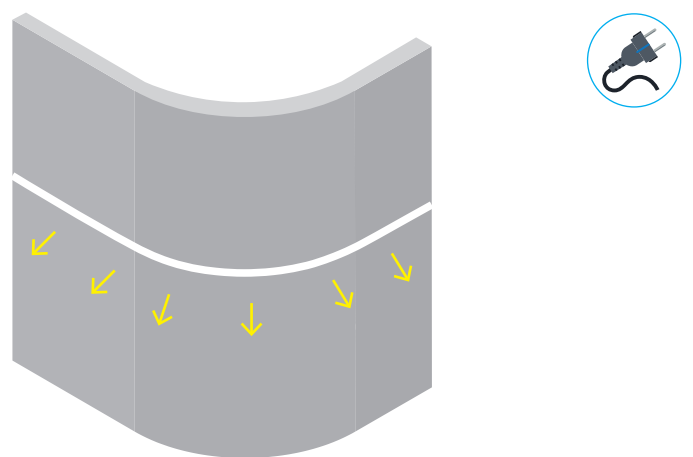*with polyurethane resin*

Max. 19.69"

Max. 19.69"

01. Prepare the screw inlet by drilling the installation plan.

02. By placing the clip on the installation plane, fasten it to the same with the countersunk screw.

Max. 39.37"

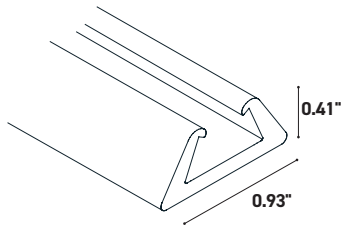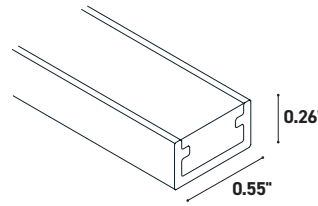**03.** Enter the LED strip in the clip by pressing.

04. Connect.

EASY LINE - Frost

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Mounting scheme with sylicone outercase
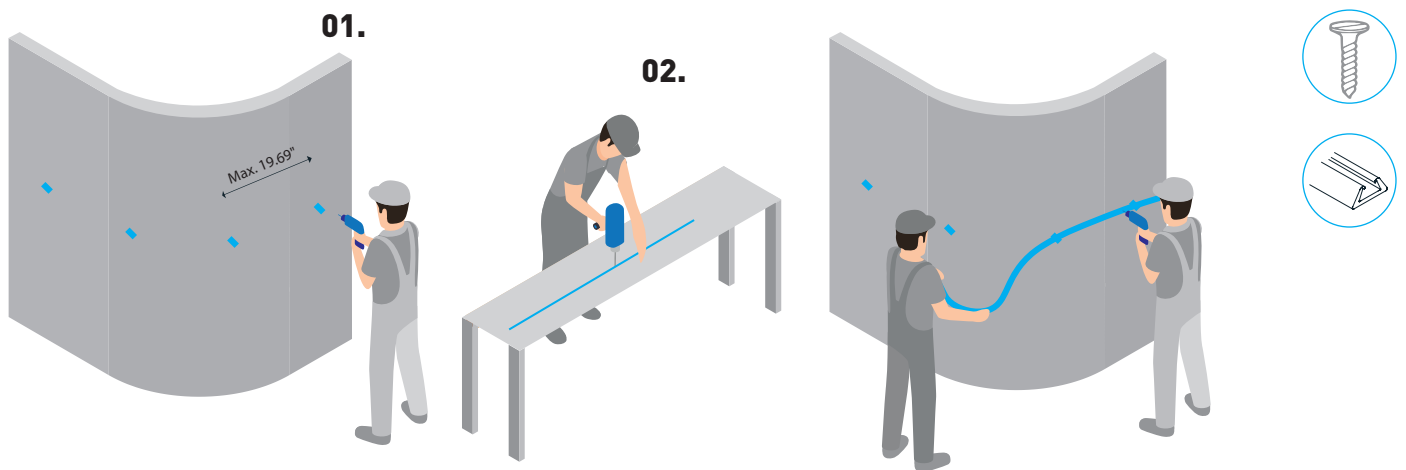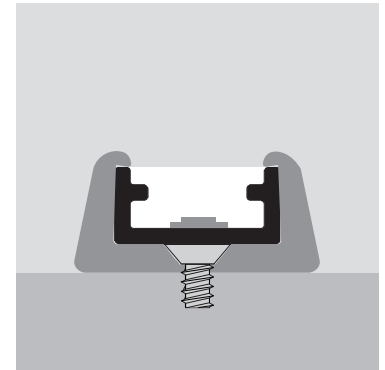
0.41"

0.93"

0.26"

0.55"

OUT-S-14x6.5.F/W

Countersunk screw
to fix the product
to the installation plane

Sylicone outercase
to press-in the LED strip

LED strip
extruded in flexible PVC and treated
with polyurethane resin

01.

Max. 19.69"

02.

1. Prepare the screw inlet by drilling the installation plan.
2. Pre-drill the sylicone outercase with the selected screw diameter.

03. By placing the sylicone outercase on the installation plane, fasten it to the same with the countersunk screw.
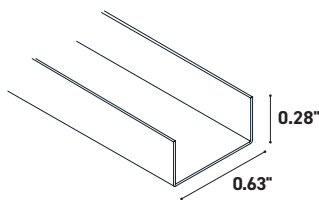

Max. 39.37"
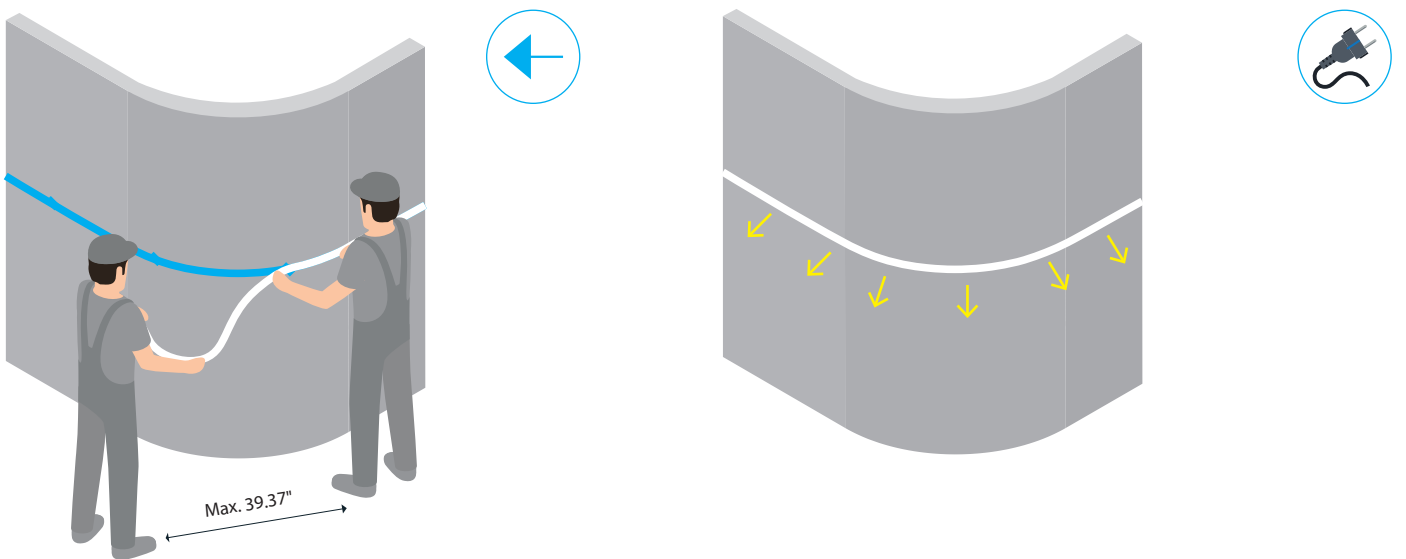
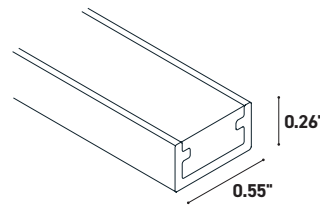**04.** Enter the LED strip in the sylicone outercase by pressing.

05. Connect.

EASY LINE - Frost

Mounting scheme with aluminum outercase

Countersunk screw
to fix the product
to the installation plane

0.28"
0.63"
PRO-AL-14x6.5-AL

Aluminum outercase
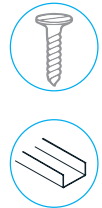*to press-in the LED strip*

0.26"
0.55"

LED strip
extruded in flexible PVC and treated
with polyurethane resin

01.

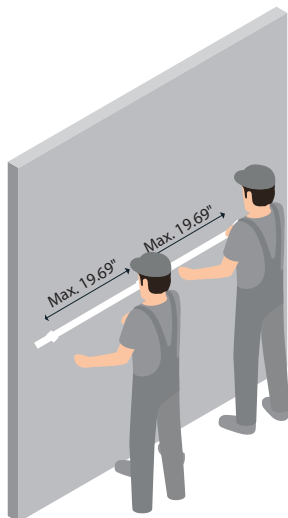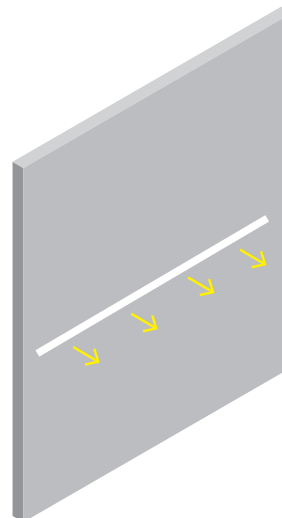**02.**

Max. 19.69"   Max. 19.69"
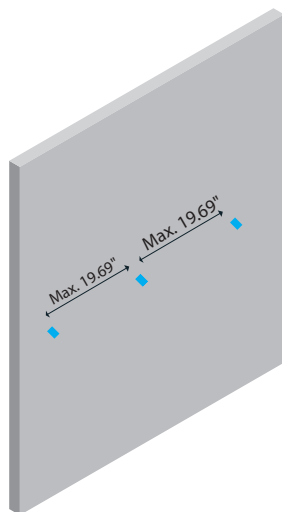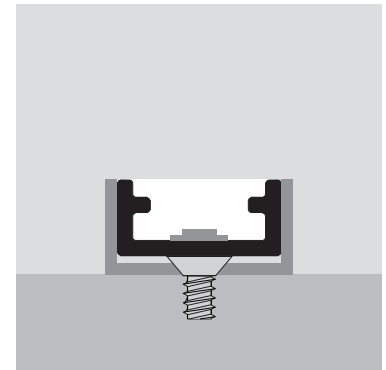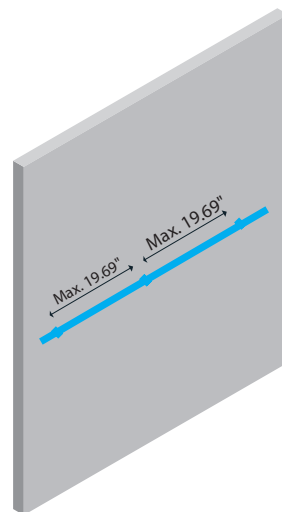
1. Prepare the screw inlet by drilling the installation plan.
2. Pre-drill the aluminum outercase with the selected screw diameter.

03. By placing the aluminum outercase on the installation plane, fasten it to the same with the countersunk screw.

Max. 19.69"   Max. 19.69"

Max. 19.69"   Max. 19.69"

04. Enter the LED strip in the aluminum outercase by pressing.

05. Connect.
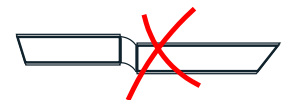
Note. In case of continuous line installation, align the individual light lines to avoid malfunctions of the LED PCB.

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EASY LINE - Frost

Mounting scheme with steel guide

0.28"
0.63"

PRO-AC-14x6.5-AC

0.26"
0.55"

Countersunk screw
to fix the product
to the installation plane

Steel guide
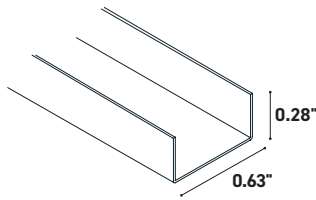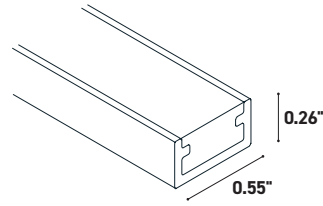*to insert by pressure*
the LED strip

LED strip
extruded in flexible PVC and treated
with polyurethane resin

Note. In case of continuous row installation, align the individual light lines well to avoid malfunctions of the LED circuits.
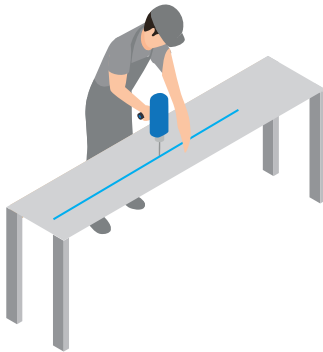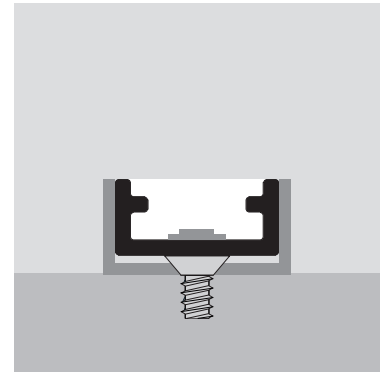
01. Pre-drill the steel profile with the diameter of the chosen screw.
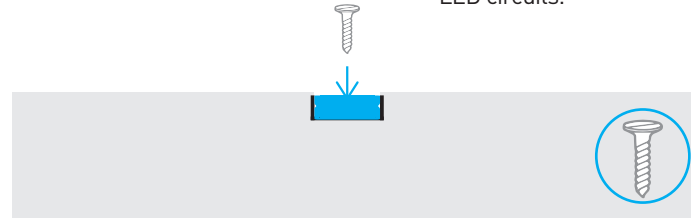
02. Place the steel profile on the installation surface, fixing it to it with the countersunk screw.
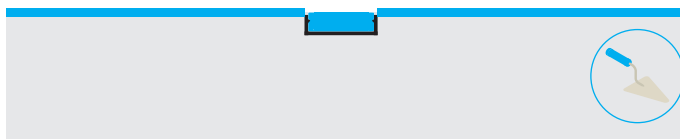
03. Smooth the installation surface.

04. Press the LED strip into the guide and connect the LED Strip.
The strip must be inserted inside with glue, but can be removed in the event of breakage.

EASY LINE - Frost

Electrical connection scheme

Single end connection, 12VDC max 8.20 ft - 24VDC max 16.40 ft

+ / − POWER SUPPLY L / N 120/277VAC in

12VDC max 8.20 ft - 24VDC max 16.40 ft

+ / − POWER SUPPLY L / N 120/277VAC in

+ / −

12VDC max 8.20 ft - 24VDC max 16.40 ft
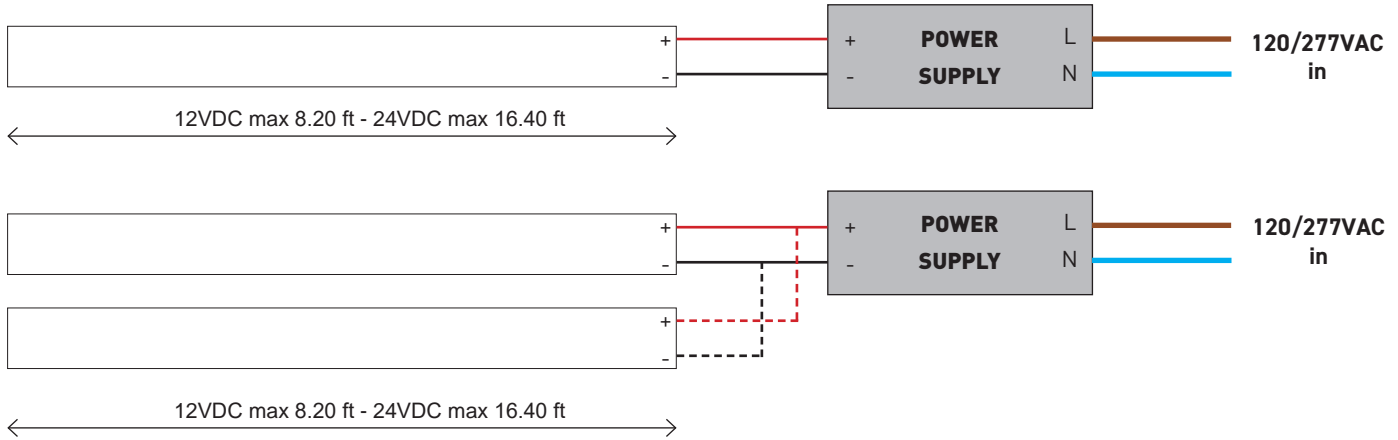
Double end connection, 12VDC max 16.40 ft - 24VDC max 32.81 ft

120/277VAC in L / N POWER SUPPLY + / −   + / −   + / − POWER SUPPLY L / N 120/277VAC in

12VDC max 16.40 ft - 24VDC max 32.81 ft

+ / −   + / − POWER SUPPLY L / N 120/277VAC in

12VDC max 16.40 ft - 24VDC max 32.81 ft
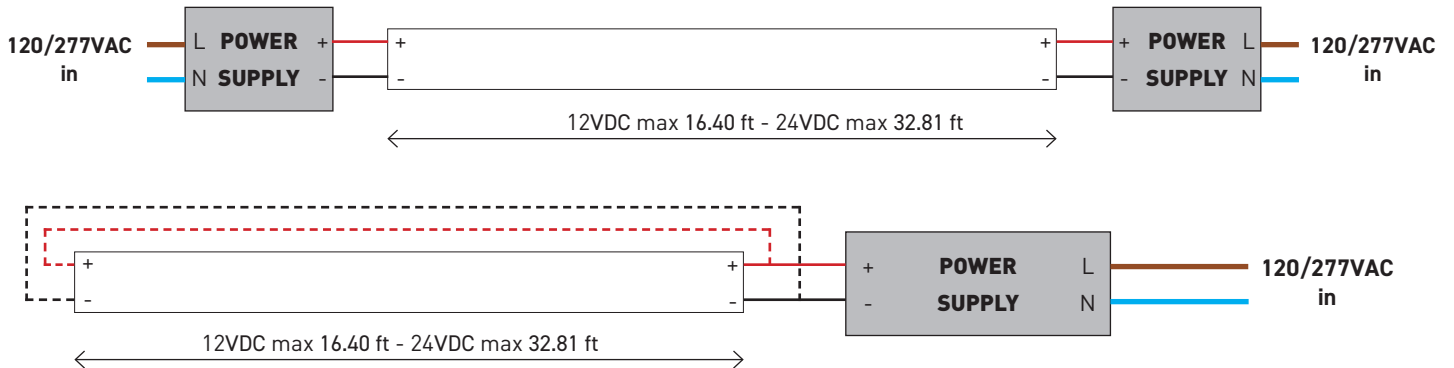
Connection between profiles: continuous line configuration

A   + − + − B + − C

+ − POWER SUPPLY L N

120/277VAC in
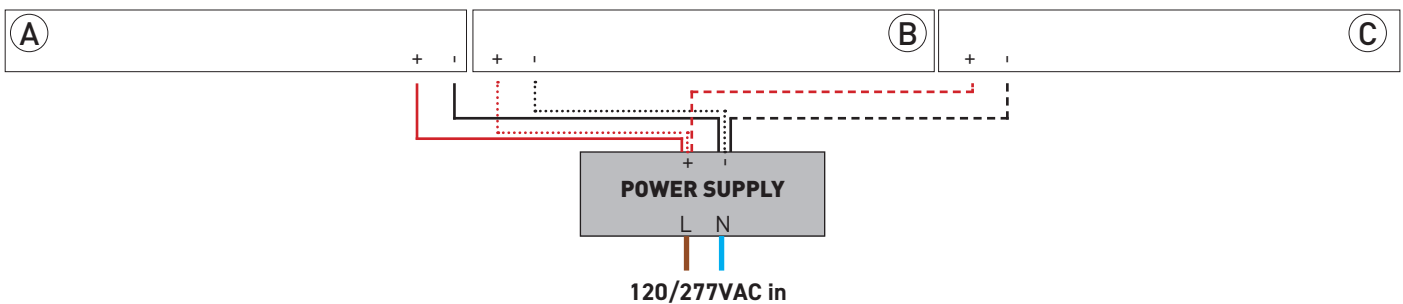
Note. The configured cables have a maximum length. Check on the data sheet.

EASY LINE - Frost

Dimming scheme

DMX

Code	Voltage	Current	Power	Channel	Control	Source	Dimensions (LxWxH)
DLM1224-1CV DMX	12V 24V	1 x 10A	120W (12V) 240W (24V)	1	DMX Button 0-10V /1-10V Potentiometer	**Monochrome**	1.77"x2.28"x0.75"
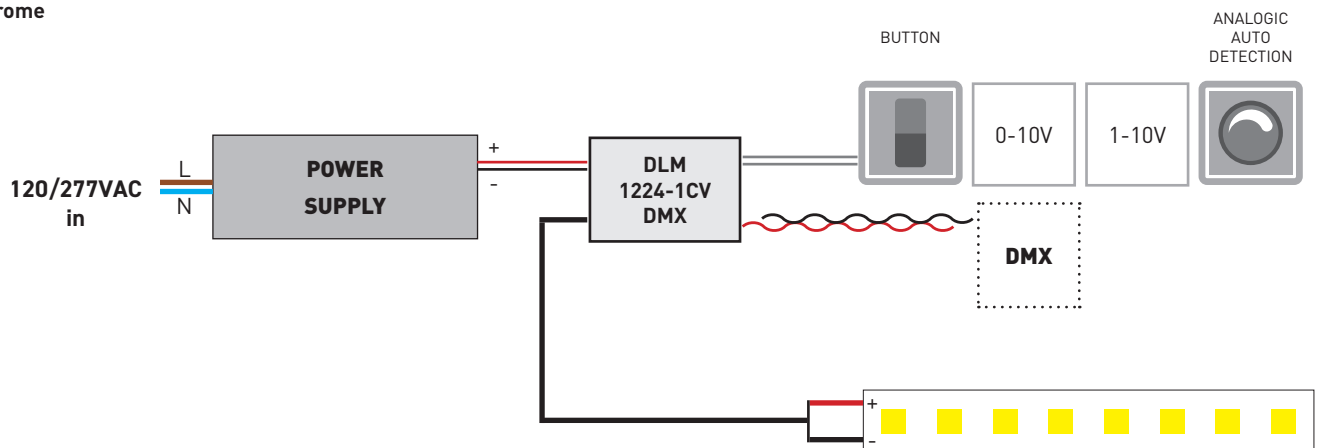
Monochrome

Monochrome + slave

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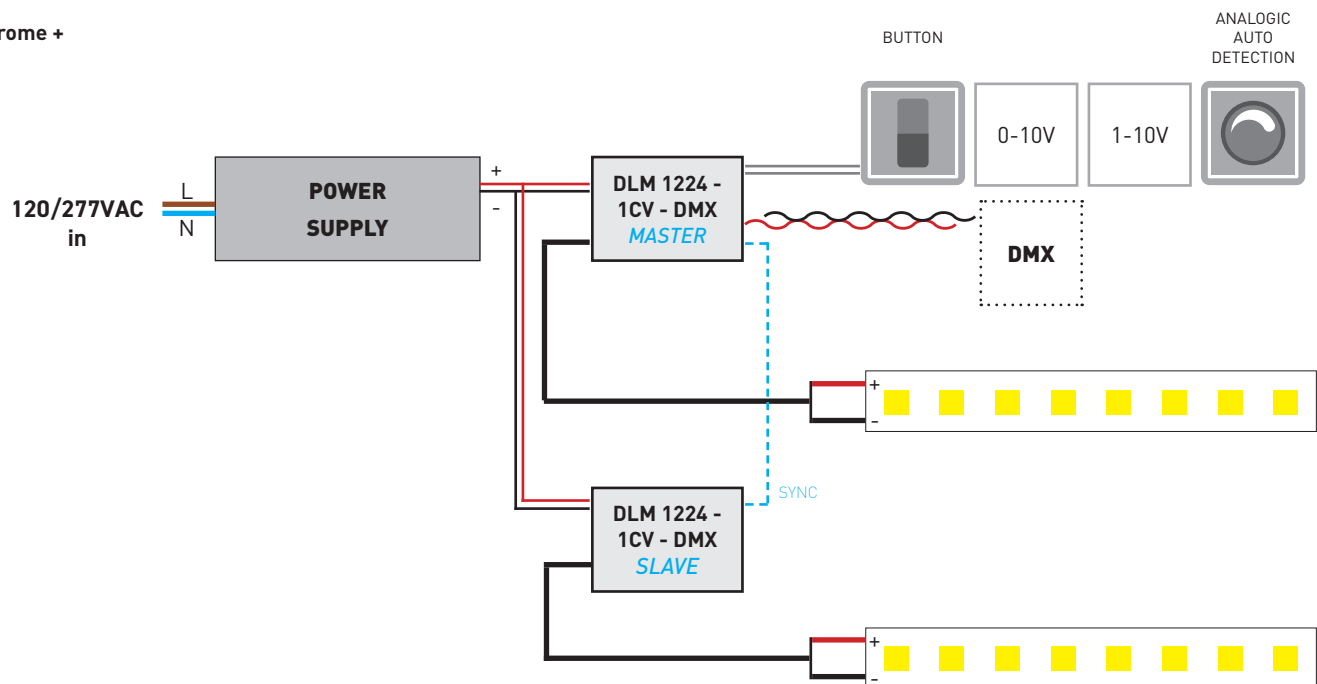
Dimming scheme

CASAMBI

Code	Voltage	Current	Power	Channel	Control	Source	Dimensions (LxWxH)
DLC1224-1CV CASAMBI	12V 24V	1 x 10A	120W (12V) 240W (24V)	1	App. CASAMBI button	**Monochrome**	1.77"x2.28"x0.75"

BUTTON

WI-FI

Monochrome

120/277VAC in

L
N

POWER SUPPLY

+
−

DLC 1224-1CV CASAMBI

+
−

CASAMBI

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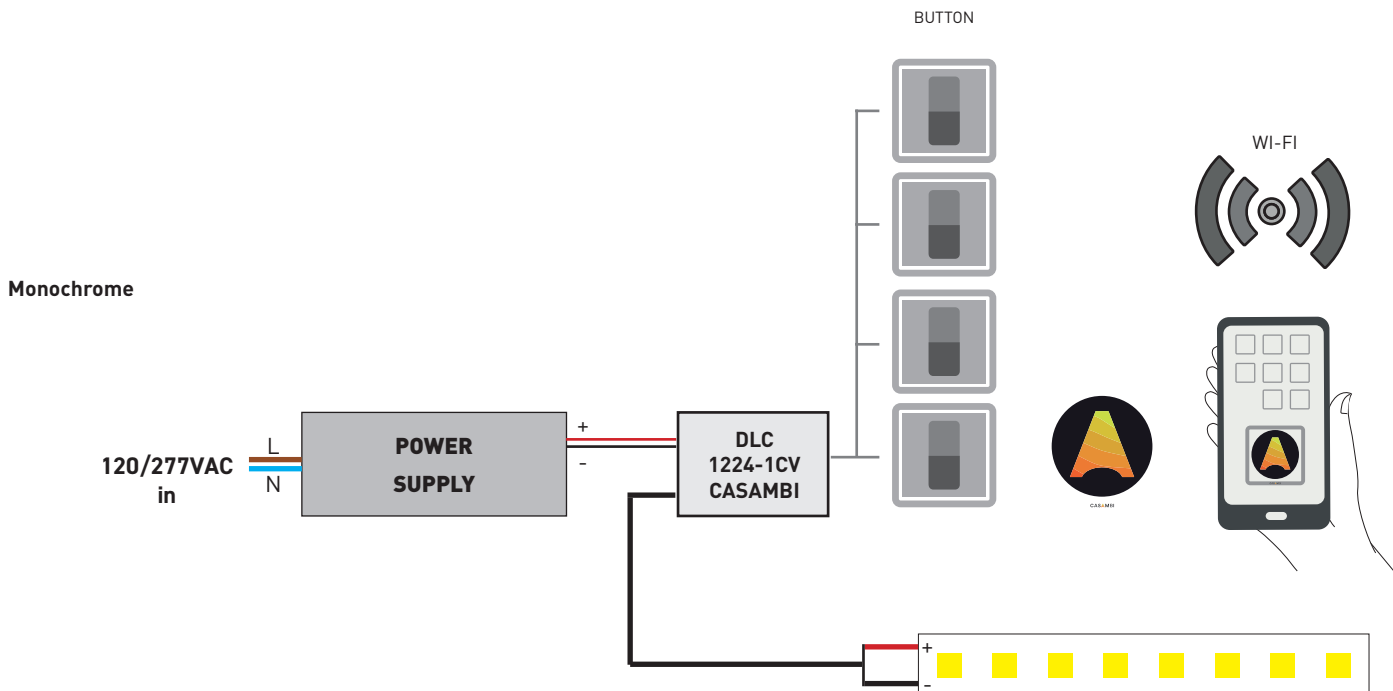
Wiring Diagram

24VDC_RGB Versions
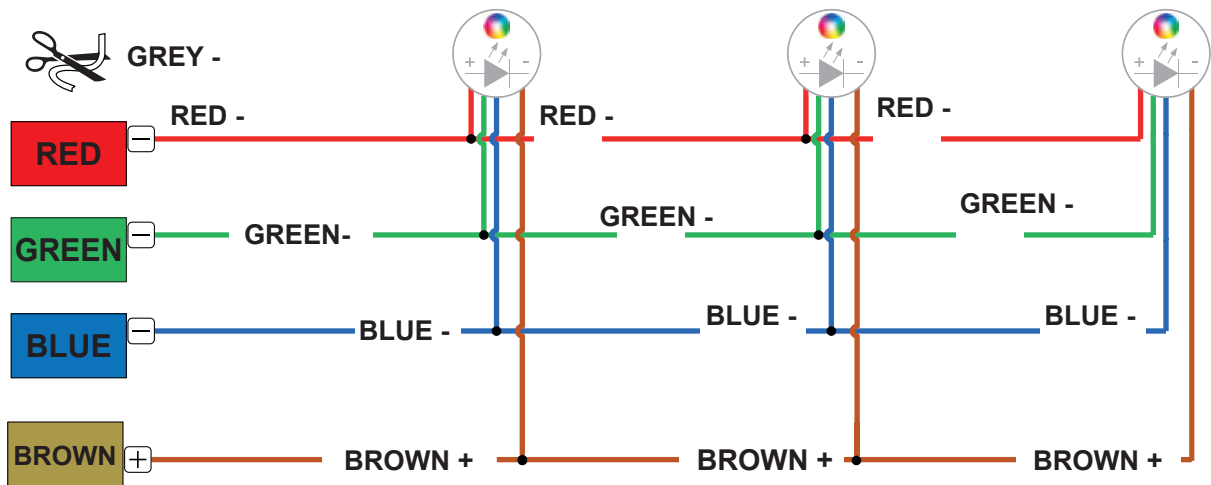
⚠ **The individual lamps must be connected in parallel.**
Only power up the system once all the lamps have being connected.

- Only power up the system once all the lamps are connected. Connecting an individual lamp to an active power supply may cause the lamp to break due to over-voltage.
- Lamps and power supply units must be installed in well-ventilated boxes or locations to allow a natural heat diffusion and avoid the devices overheating.
- On the power system, install a surge protection device to reduce the intensity of any voltage spikes to protect the lighting fixtures from the risk of damage.
- Fixture NOT suitable for covering with thermally insulating material.

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