



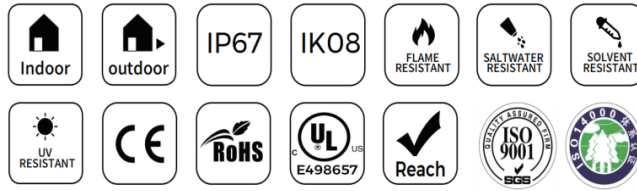
## SPEC SHEET: PIXEL-FREE LED TRIM 12MM LED STRIP LIGHT

Pixel-Free LED Trim 12mm LED Strip Light is a brilliant combination of even light distribution, direct and indirect view lighting, and rich color possibilities suitable for nearly any application. The outdoor rated casing (IP67) is suitable for both indoor or outdoor use, durable yet flexible in nature and resistant to saline, solvents, UV and comes complete with numerous ratings to be used in both commercial and residential settings. Available in single color, RGB (Red, Green, Blue), RGBW (Red, Green, Blue, White), CCT (Controllable Color Temperature), and even Pixel-Controlled (each pixel individually controlled).

**Product Features:**

Even Light Distribution WithOUT Hot Spots  
Wide 118° Light Angle Illumination  
Flexible & Water Resistant IP67 Jacketing  
High CRI (>90) For Beautiful Light Output

Pixel Diffusion to Eliminate Reduce Hot Spots and Shadowing  
Flexible, Beautiful Direct View Light  
Perfect For Signage, Architectural, Indoor/Outdoor Linear Light  
3-Year Warranty

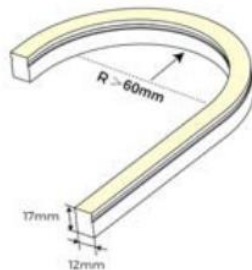


Size	SKU	Color	Voltage	Brightness	Consumption	Cut Point	Rating	Max Length
12 x 17mm	LDP201	Cool White (6000K)	24V DC	460 Lumens/m	9.6w/m	50mm	IP67	10M
12 x 17mm	LDP202	Natural White (4000K)	24V DC	520 Lumens/m	9.6w/m	50mm	IP67	10M
12 x 17mm	LDP203	Warm White (2700K)	24V DC	520 Lumens/m	9.6w/m	50mm	IP67	10M
12 x 17mm	LDP204	Candle White (2300K)	24V DC	520 Lumens/m	9.6w/m	50mm	IP67	10M
12 x 17mm	LDP211	Blue (465-470nm)	24V DC	N/A	8w/m	50mm	IP67	10M
12 x 17mm	LDP212	Green (525-530nm)	24V DC	N/A	8w/m	50mm	IP67	10M
12 x 17mm	LDP213	Red (620-630nm)	24V DC	N/A	8w/m	50mm	IP67	10M
12 x 17mm	LDP215	Yellow (587-592nm)	24V DC	N/A	8w/m	50mm	IP67	10M
12 x 17mm	LDP221	RGB (Red, Green, Blue)	24V DC	N/A	12w/m	83mm	IP67	5M
12 x 17mm	LDP222	RGBW (Red, Green, Blue, White - 4000K)	24V DC	N/A	14.4w/m	62.5mm	IP67	5M
12 x 17mm	LDP248	Pixel-Controlled RGB (Red, Green, Blue)	24V DC	N/A	18w/m	71.43mm	IP67	5M
12 x 17mm	LDP239	CCT (Controllable Color Temperature (2300 - 4000K)	24V DC	N/A	12w/m	100mm	IP67	5M

Working Temp: 30~55°C

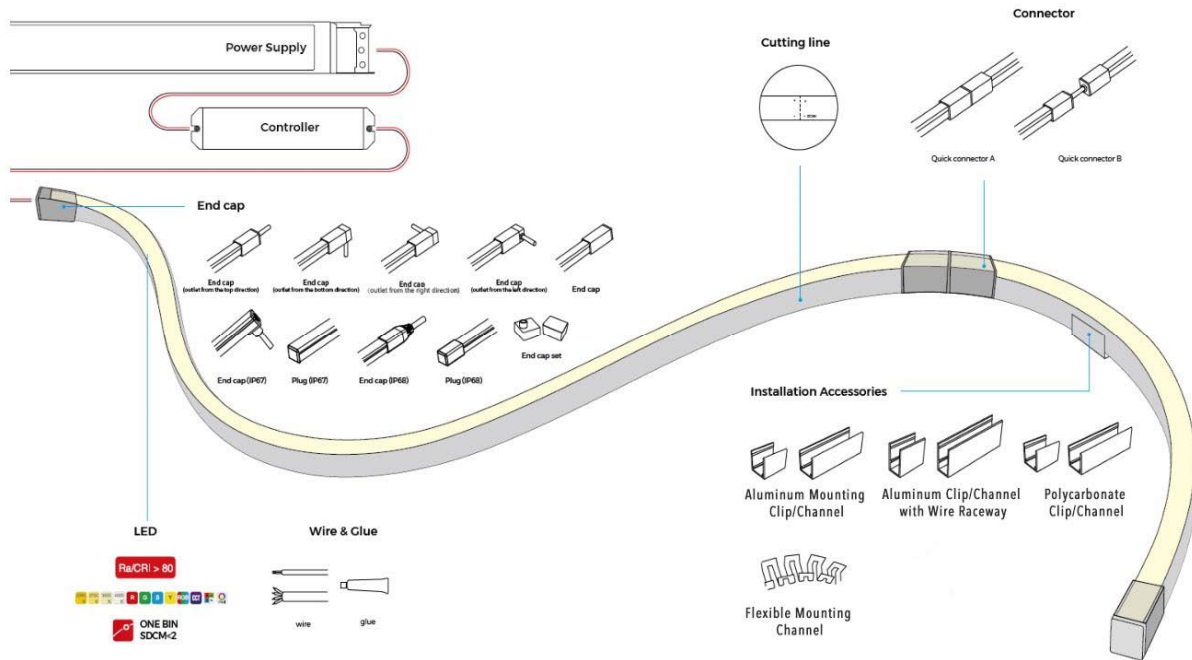
Storage Temp: 0°~60°C

**STRUCTURAL DIAGRAM:**



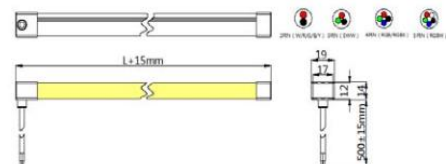
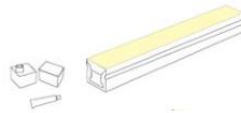
COMPANY	PROJECT	AREA	APPROVED BY	DATE

AVAILABLE ACCESSORIES

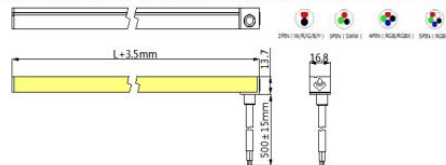
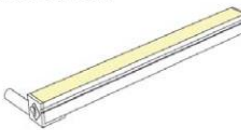


END CAP SOLUTIONS

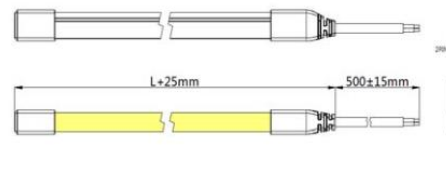
silicone End-Cap



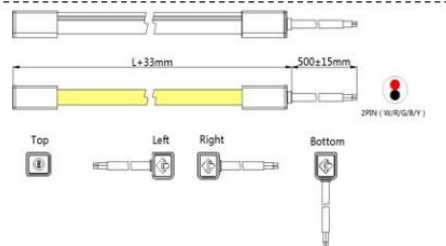
Shadowless End-Cap



full protective End-Cap



Weld-free waterproof End-Cap

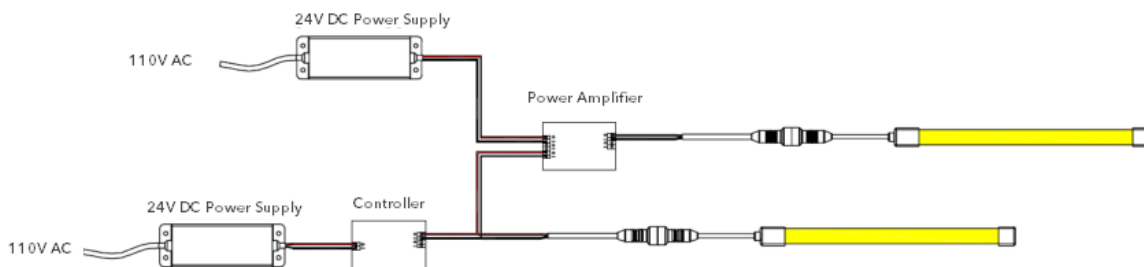


**WIRING DIAGRAM**

**NON-DIMMABLE**

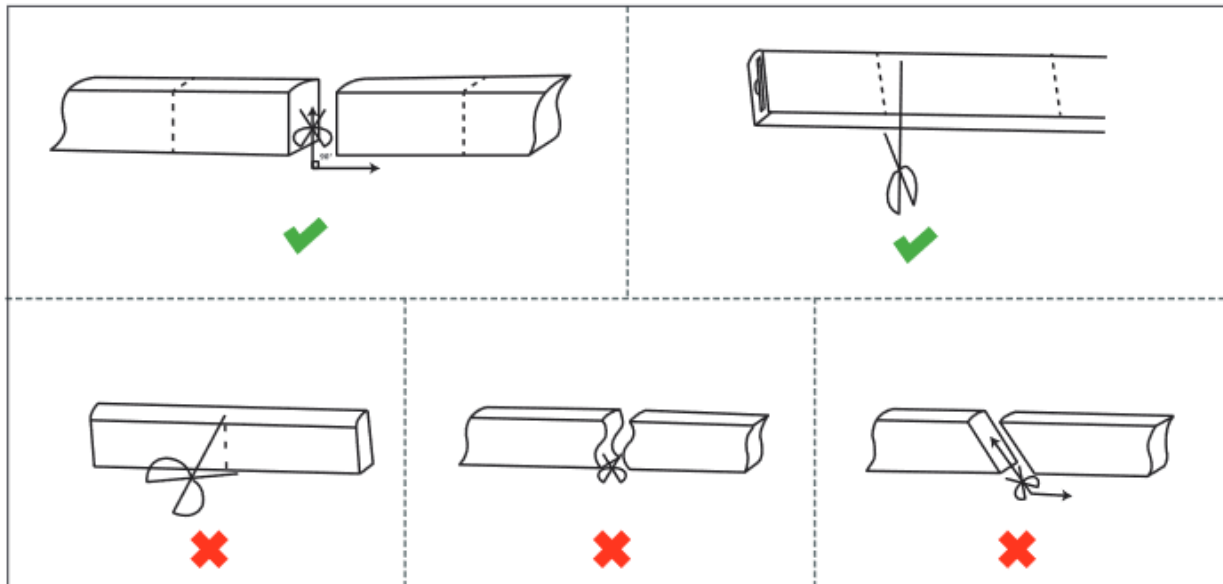


**DIMMABLE**

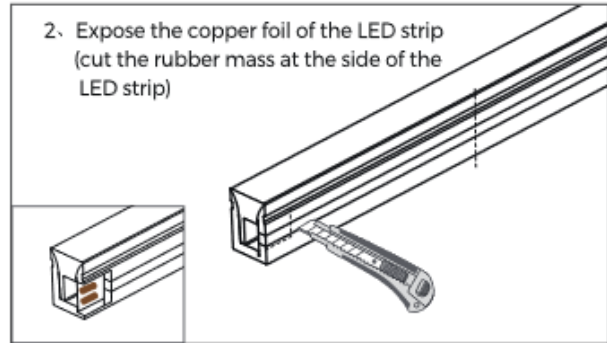
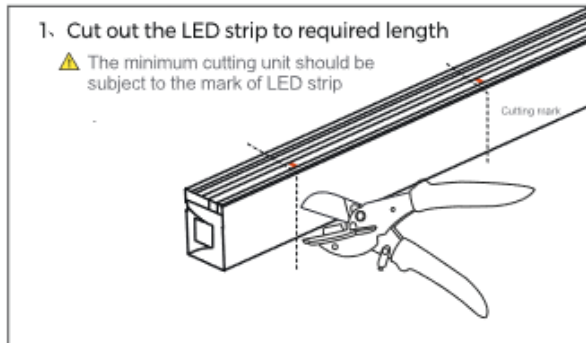


**CUTTING/CONNECTION INSTRUCTIONS**

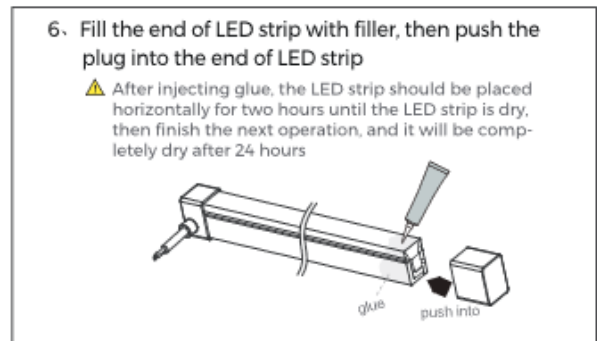
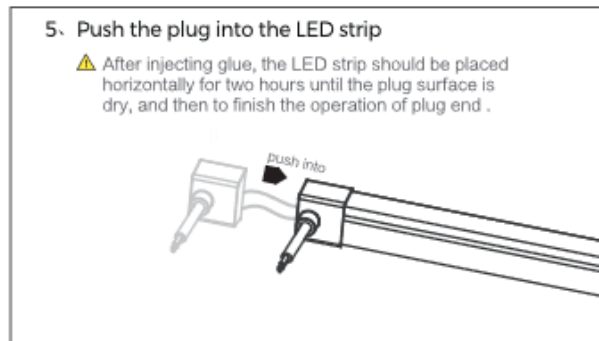
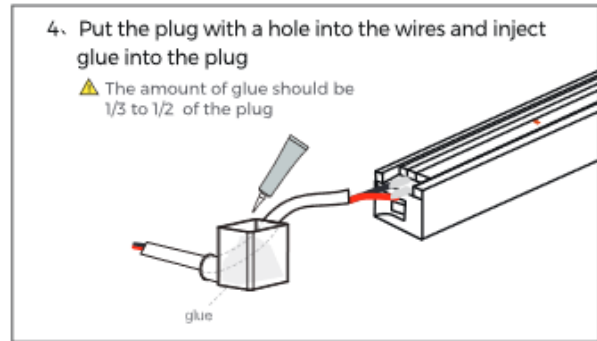
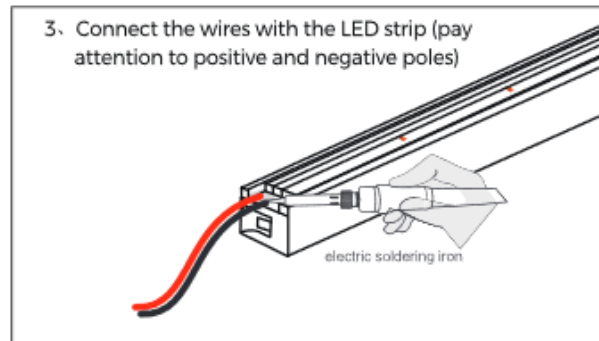
It is highly recommended to cut the LED at a straight 90° angle directly on the cut sections marked on the exterior jacket. This will avoid damaging LEDs inside the housing. Cutting at an angle is not recommended as it can cut areas not intended to be trimmed, which may have adverse effects.



Once the LED is cut, use flush cutters or razor blade to expose the backside of the LED strip. The backside is the same side as the cut marks on the side of the jacket.

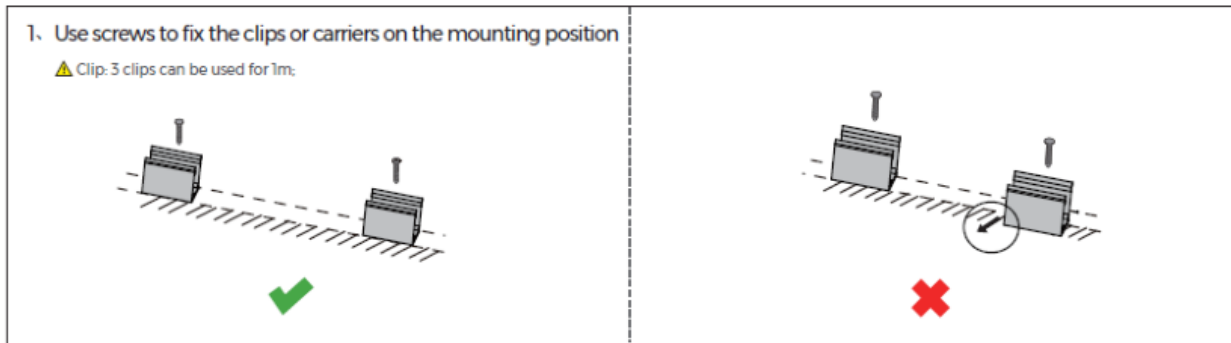


Proceed in soldering your wires to the LED strip, paying attention to the polarity.

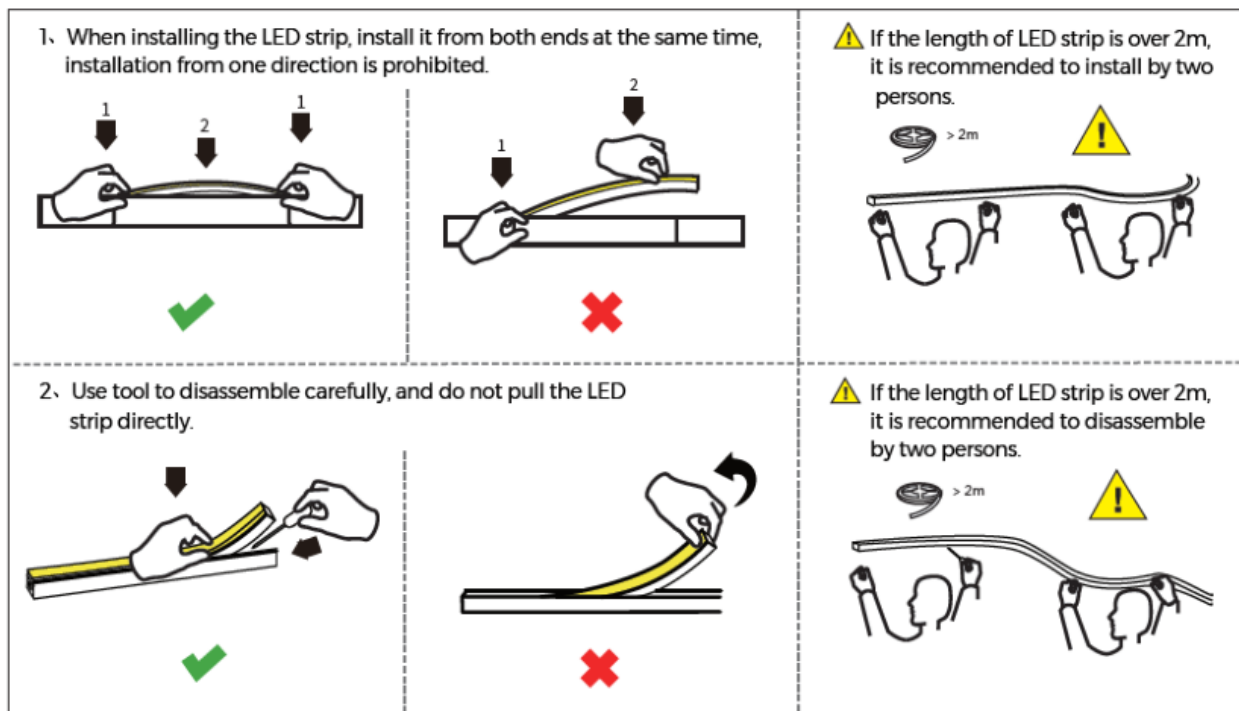


## INSTALLATION INSTRUCTIONS

Using mounting clips - Make sure the mounting clips are on the same plane to avoid awkward bending of the strip. The channel is meant to move left and right (like a snake). Not up and down (like a roller coaster).



Installation into linear channels or substrates - It is recommended to use caution when inserting the strip into channels and various substrates. LED is not meant to have sharp bends, so make sure to use extreme caution when inserting or removing the strip from a channel.



## FAQ

Can Pixel-Free LED Trim be cut?

Yes, cut point on Pixel-Free LED Trim varies between 50mm (~2") to 100mm (~4mm). Any cut point should be sealed with a silicon adhesive along with the Silicon Pixel-Free LED end caps. These end caps keep debris and moisture from entering when a waterproof adhesive (like silicon glue) is applied.

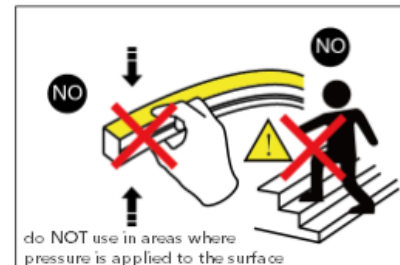
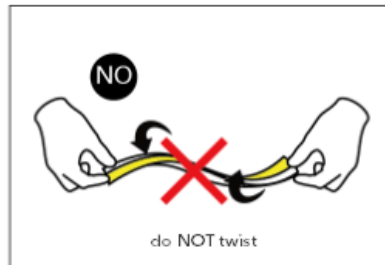
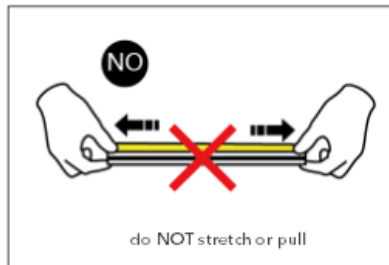
Is Pixel-Free LED Trim able to bend back and forth?



While Pixel-Free LED Trim is one of the tightest bending radius LED Strips in its class (60mm ~ 2.34"), back and forth bending can cause premature failure of the strip. We recommend handling the product with care, and bending minimally while the product is placed in its fixed location. Do not try to stretch the LED to pull it taught over long distances, and do not twist or distort the jacket to turn into tight corners. Doing so can cause failure to the strip.

#### Can You Install Pixel-Free LED Trim On Floors?

Pixel-Free LED Trim is able to be installed on steps to illuminate pathways, however it should be used on the bottom side of steps where minimal to no pressure is applied. Do not install in areas where it will be walked on or have pressure applied for best results.



#### PRECAUTIONS

- Use 24V DC Isolated Power Supply to drive Pixel-Free LED and the confirm ripple wave of constant voltage source is less than 5%. Do not use RC Voltage reduction or non-isolated power supply to drive LED Strip.
- In order to guarantee sufficient voltage is available to drive LED Strip in all conditions, make sure power supply is rated for 20% more than LED Strip consumption.
- Do not touch AC Power Supply when powered on
- Polarity Matters! Make sure to wire positive and negative poles of wires during installation to avoid damage to the strip.
- Avoid scratching, distorting, and repeated bending of product during installation. Not following this can cause irreparable damage to strip.
- Do not bend Pixel-Free LED with a radius less than 60mm (2.34")
- Product is not intended to be submerged and used in swimming pools or hot tubs
- Professional installation recommended