

LIGHTS BY
LINEA

EST. 1990

DESIGN & TECHNICAL CERTAINTY

LED'S JOINERY BOOKLET

LED'S JOINERY

We pride ourselves in superior quality LED strip lighting for use in architectural lighting as well as joinery, cabinets and kitchens.

We have partnered with the leading manufacturers and suppliers to ensure we only supply the best quality LED strip and components. Our trained consultants can guide you in achieving your desired lighting effect and our dedicated LED installation and service team should you need their services for an installation.

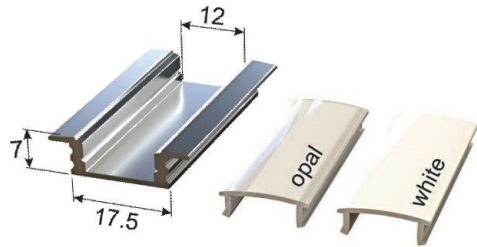




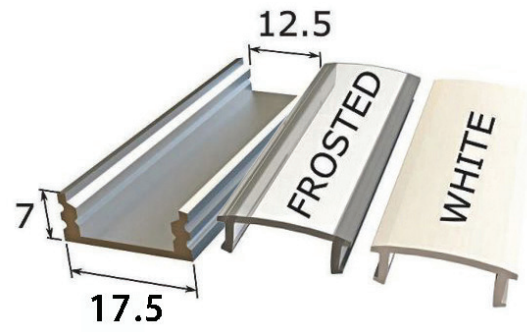
Our LED strip is available as IP20 for interior use or in a IP65 waterproof version for bathrooms and external applications.

We offer a variety of CCT options including 3000K, 4000K and DIM 2 WARM LED strip.

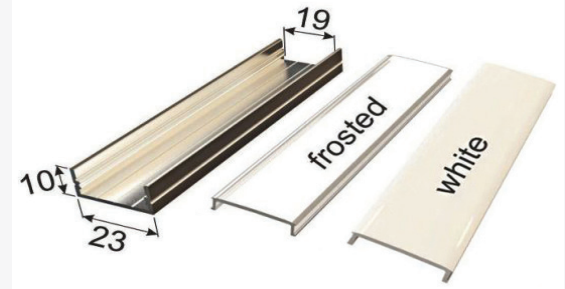
The LED strip is mounted on aluminium extrusion, available in a variety of profiles to suit every application. The profiles all have matching diffusers, which is recommended to diffuse the light, as well as protect the led chips from residue dust and UV rays that will cause their lumen life maintenance to depreciate.



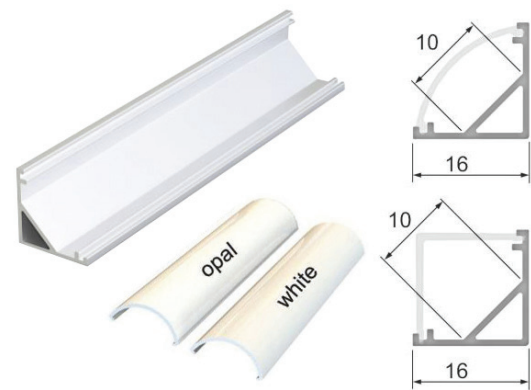
LBLEXTA4



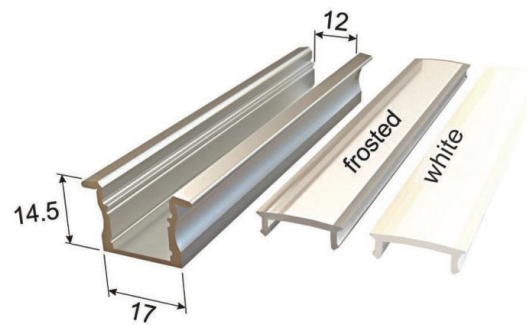
LBLEXTA6



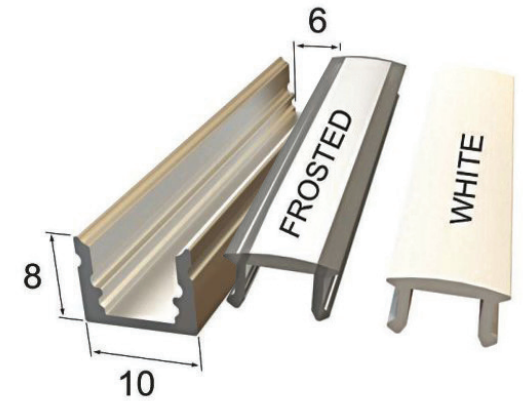
LBLEXTA10



LBLEXTA13



LBLEXTA15

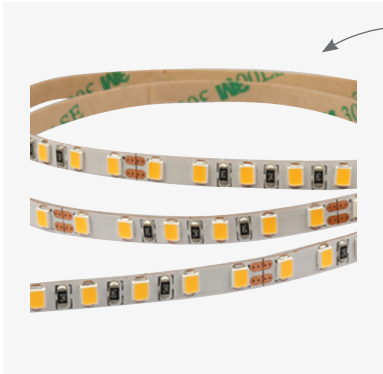


LBLEXTA18



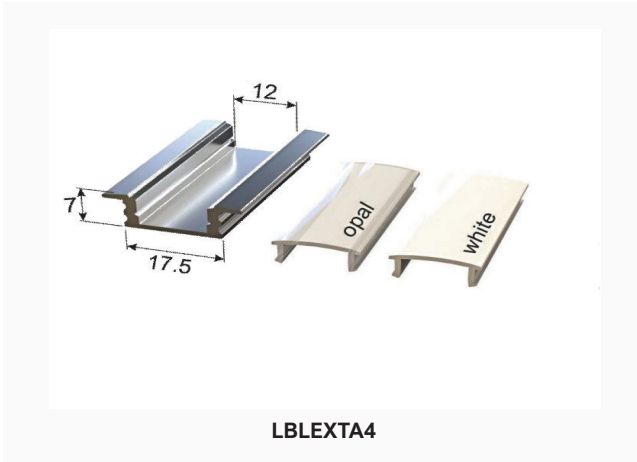
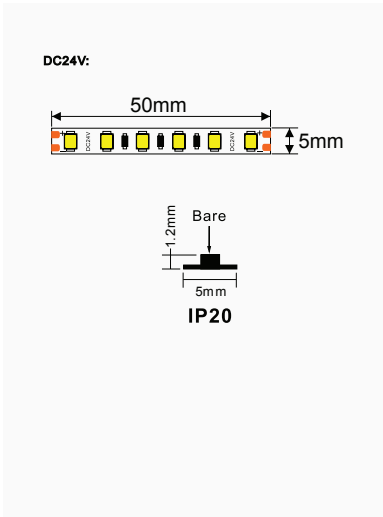
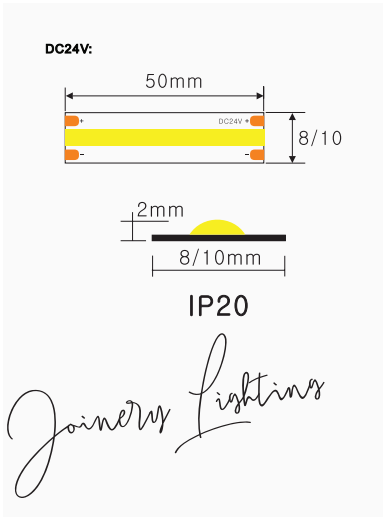
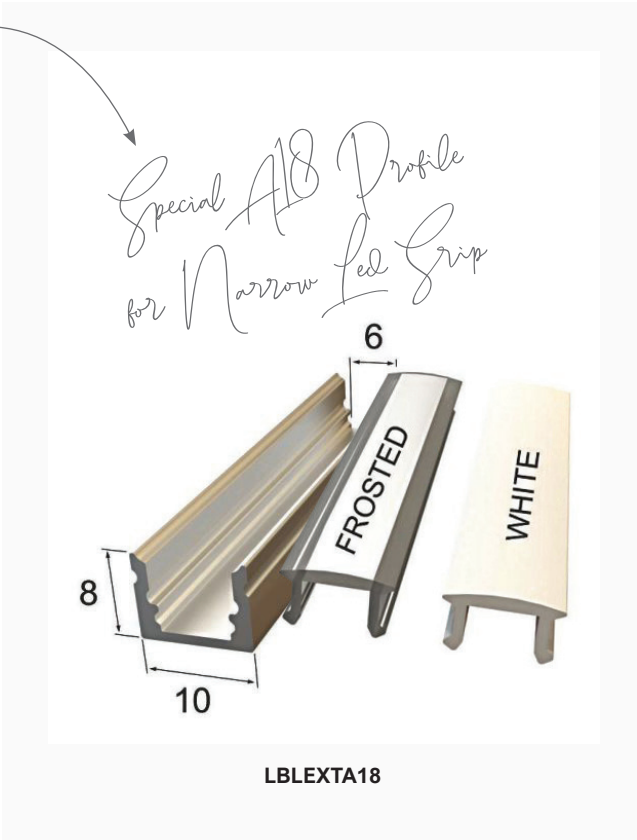
**LED COB 10W 24V
LBLFLEX10WW24V**

LAMP	COB LED
VOLTAGE (V)	24V
CHIP DENSITY	480 Chips/m
SYSTEM POWER (W)	10W
SOURCE OUTPUT (LM)	880LM / 989LM
CCT (K)	3000K / 4000K
CRI (RA)	>80
MAC ADAM STEP	3 STEP
DIMENSIONS	10mm x 2mm
CUT	50mm/cut
WARRANTY	5 YEARS



**120 LED 6.7W 24V
LBLFLEX100WW**

LAMP	SMD2835
VOLTAGE (V)	24V
CHIP DENSITY	120 LEDs/m
SYSTEM POWER (W)	6.7W
SOURCE OUTPUT (LM)	594LM
CCT (K)	3000K / 4000K
CRI (RA)	>80
MAC ADAM STEP	3 STEP
DIMENSIONS	5mm x 1.2mm
CUT	50mm/cut
WARRANTY	5 YEARS



How long do LED Strip Lights Last?

Over time, LEDs gradually lose their light output similar to any artificial light source and 30,000 is the number of hours it generally takes for LED lights to diminish to 70% of their original light output

How do LED Strip lights work?

Individual LED Chips are mounted along the strip, typically 60 to 120 units per meter. The light colour and quality of the individual LEDs determine the overall light colour and quality of the LED strip. Simply peel off the liner, and mount the LED strip to a clean aluminium profile.

Can I cut the LED strip to size?

Cutting LED strips is very simple thanks to the cut lines along the strips. At each cut point there is a black line with copper solder pads that sit on each side. The copper solder pads are used to when connecting two pieces of strip together by carefully soldering it. This makes it possible to connect LED strips together.

Waterproof or Non-Waterproof?

LED strip lights are not limited to indoor projects. The waterproof LED strip lights are IP65 rated with a silicone resin material that protects the strip components from dust and moisture. The waterproof LED lights are a little more expensive but are a must for any project that is outdoors or close to water.

What size driver do I need for LED strip lights?

The length and the power consumption of the led strip determines the size (in watts) of the driver. We always recommend to select a driver that is at least +30% bigger than needed for it to not run at full capacity, and therefore increase its lifetime



**Where do I position the PIR?**

PIR should rather be installed behind a door with a lip and not dead centre of a double door, as the PIR can sometimes see between the gap of the doors or through the top of the door frame and trigger when you walk passed a closed door.

What do mean by 'LUMEN' output for brightness? What about the wattage?

A Lumen is the measurement of brightness as perceived by the human eye. Thanks to incandescent lighting, most of us used watts to measure the brightness of a light. Lumen output is one of the most important parts of choosing LED strip lights as it will determine how much light you will get from your strip.

If the product fails after the purchase or during the warranty period, who do I contact?

If a problem should arise you will contact our service department, who will guide you through the process of logging a service call. Should there be any manufacturing fault we will replace the strip under warranty. In the event of a 3rd party installation, our team will do an inspection and provide a report on their findings, Lights By Linea will not be liable for 3rd party installation defects. Any faulty product or installation defects, if installed by our team, will be replaced at no charge under the warranty.

Does the position of the profile matter when installing?

YES, LEDs are directional. This means that they put out light in a certain direction (like a flashlight), not all around (like a light bulb). The 'beam angle', is the effective range (in degrees) that the led chips emit light.



Cut-to-size – Cutting LED strips is very simple thanks to the cut lines along the strips. At each cut point there is a black line with copper solder pads that sit on each side.

When measuring for joinery, it is important to remember the space allowance between cut lines. This can result in “dead” areas...



Flexible LED strip with Adhesive – The LED strips have an adhesive backing for simple mounting options, making for a simple peel-and-stick install. It is very important that the aluminium surface that the strip will go onto is cleaned prior to sticking the strip into the channel. Any oily residue will cause 3M tape to lose come loose.



Waterproof or Non-Waterproof – LED strip lights are not limited to indoor projects. The waterproof LED strip lights are IP65 rated with a silicone resin material that protects the strip components from dust and moisture. The waterproof LED lights are a little more expensive but are a must for any project that is outdoors or close to water.





12V LED strips to be powered every 5m

24V LED strips to be powered every 10m

12V / 24V Drivers to be placed no further than 5m from the beginning of the LED strip

Avoid using long wires with large currents – it is better to locate the power supply closer to the center or to use additional power supplies. Long wires are prone to voltage drops (dimming) and fires.

Feeding long strips – Inside the LED strip there is not much space for heavy wire, the result is that the thin copper will cause a noticeable volt drop (and dimming). The thinner the LED strip, the worse the volt drop becomes. If the length exceeds about 8m for standard width strip, or 3m for 4.5mm or narrower strip, the strips should be fed from both sides or broken into smaller sections and fed from separate supplies or transformers with multiple outputs.

Connections and joints – Always cut strips where the maker indicates. To extend them, you can overlap and solder, or use connecting strips. Always protect joints against the weather with heat-shrink tubing or insulation. NEVER use silicone sealant on top of or close to LEDs, as it penetrates the protective coating of the strip and will kill the LEDs underneath it.

Remember that although the DC side may only be 5 or 12V there is a large current flowing. Any very small resistance in the connector or joint is going to cause a voltage drop resulting in heat build-up and of course dimming of the LEDs.

Make sure all joints and connections that are exposed to the outside air are properly protected from the effects of the weather, the slightest bit of damp on a joint that has voltage on it will cause a galvanic build-up of corrosion.

DESIGN & TECHNICAL CERTAINTY