

Plan the strip, power and controls

Single-colour 8mm FreeCut COB strip | 13W/m | IP20 dry indoor use

8x1.5mm

CUT ANYWHERE

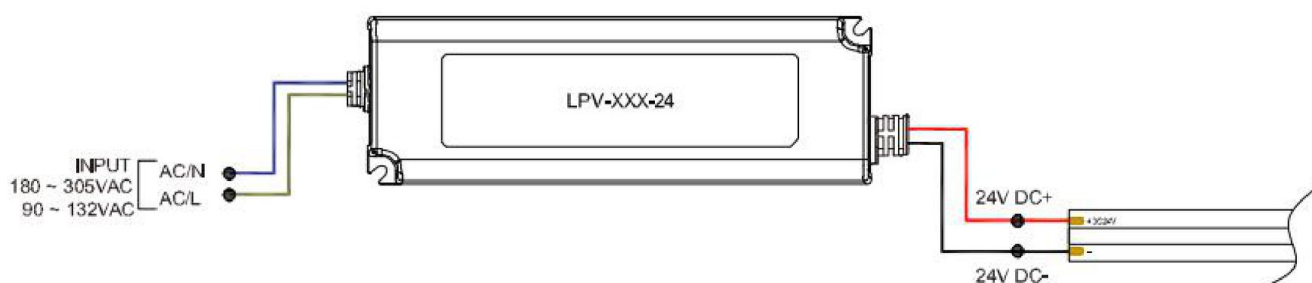
10m MAX RUN

ONE-END POWER

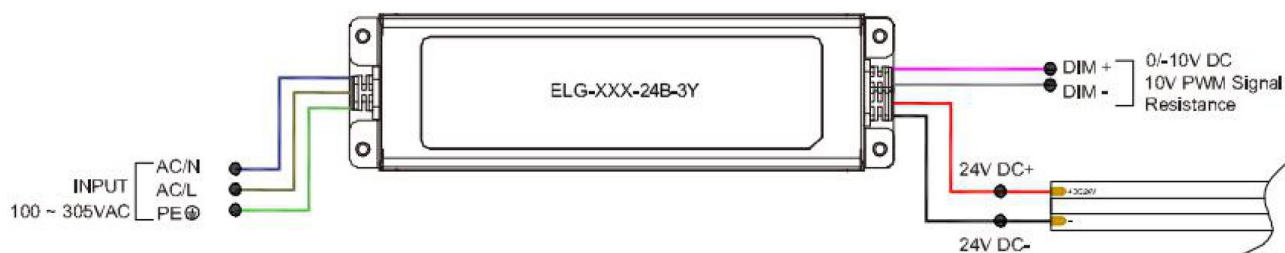
1. Measure and plan

Measure each finished run and mark the cable routes. Allow space for connections, the driver and any dimmer. A 30m purchased roll is not a 30m powered run. Plan separate feeds for longer or branched installations.

Non-dimmable



3 in 1-dimmable



Original 24V driver artwork from the established ATOM LED COB documentation. Illustrative driver models; equipment is supplied only as listed in your order.

Select the correct supply

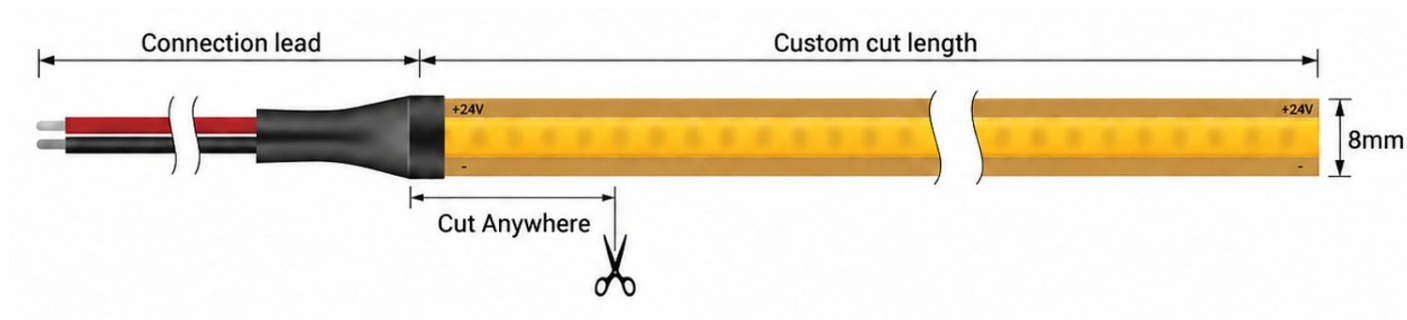
Use a regulated 24V DC constant-voltage supply. Strip load = length x 13W; 5m uses 65W and 10m uses 130W. Follow the driver manufacturer's headroom and ventilation requirements. Check controller, cable and connector current ratings.

Never connect the strip directly to 220-240V mains. Isolate all power before work. Mains wiring belongs to a competent installer.

Measure, cut and make the connection

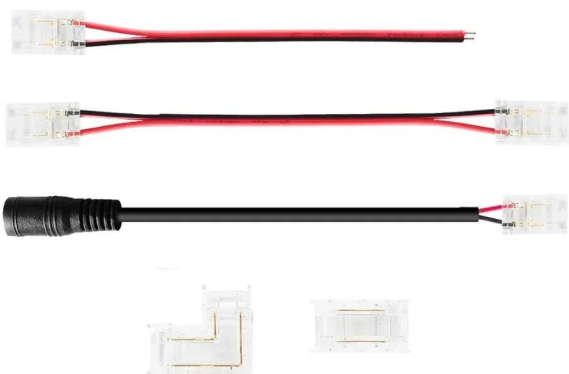
2. Isolate, support and cut

Confirm that you have the 8mm FreeCut product. Disconnect its supply. Keep the strip flat and supported, then make a clean square cut to the required length. This range has no fixed cutting interval. Do not tear, crush or pierce the PCB.



3. Choose the correct connection

Use a suitable 8mm, two-contact COB connector, or a correctly prepared soldered connection. The illustrated ATOM accessories show the available forms; check the selected option's instructions and load rating.



A cut point is not automatically a ready-made connector contact. Make the connection only at the correct, accessible electrical pads. If the cut end cannot accept the intended connector, ask ATOM LED to prepare it.

4. Match polarity and inspect

Follow the strip's printed + and - labels and the driver/controller output labels. Check both contacts are secure and correctly seated. For soldered joints, avoid bridged pads, loose strands and excess heat. Protect exposed contacts and support the cable.

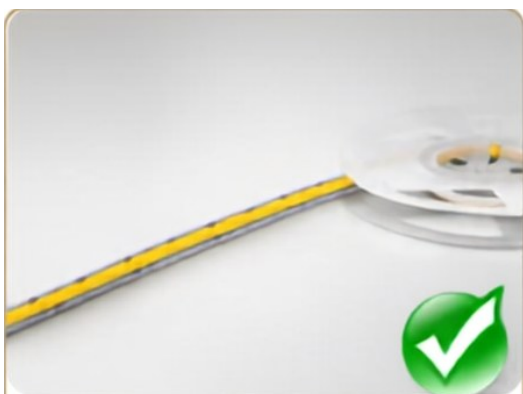
Prepare the surface and mount carefully

5. Fit the support first

Fit a suitable aluminium profile on a clean, dry, stable surface. Remove swarf and sharp edges. Check clearance for the strip, connectors and diffuser before fixing the channel. Keep screws and tools clear of the strip.

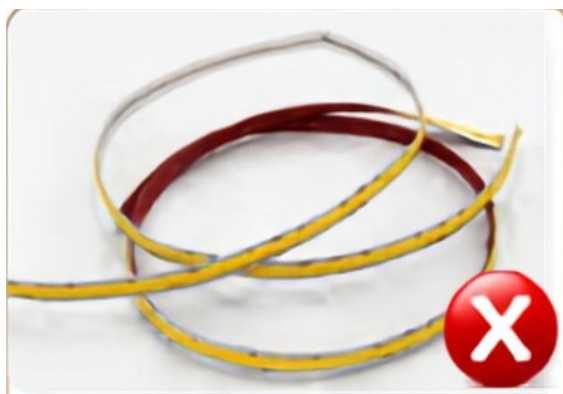
6. Lay in the strip and support the cable

Position the strip progressively without stretching it. Press the backing into place while avoiding pressure on the COB emitting face. Keep it flat at joints, and support leads so they cannot pull on the strip or become trapped by a cover.



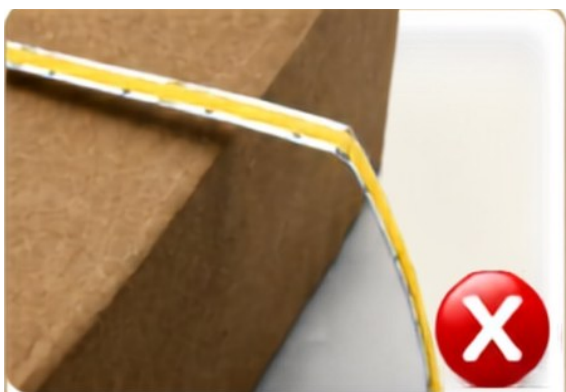
Unroll gradually and keep the strip supported

Feed the strip from the reel as you position it. Keep the PCB flat and support it along the route.



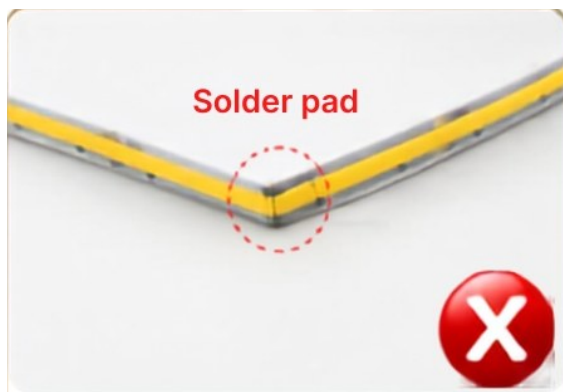
Avoid pulling the full reel into loose loops

Keep the unused strip controlled on the reel during fitting. Do not let loose loops twist, tangle or pull on the installed strip.



Do not fold around a sharp corner

Avoid tight right-angle folds and creases. Use a suitable connection or a gently planned route instead.



Keep stress away from solder pads

Do not bend at a solder pad or joint. Support the lead so it cannot pull, twist or lever the connection.

Test, commission and look after the strip

7. Test before final closing

Fully unroll the strip. With power isolated, check all connections, polarity and conductor security. Verify the supply is set to 24V DC. Reconnect power for a short functional test, then isolate again before making adjustments or fitting the final cover.

Check	What to confirm
Supply and load	24V DC; total strip load and driver/controller limits checked.
Feeds	Maximum 10m powered from one end. Longer projects need separate powered sections.
Connections	No exposed strands, shorted pads, loose contacts or cable strain.
Mounting	Strip supported; no twists, sharp folds or pressure on the emitting face.
Environment	Dry indoor location; driver ventilated and accessible.
Appearance	Correct fixed colour, stable brightness and correct dimmer operation.

Troubleshooting

Symptom	Check with the power safely isolated
No light	Supply voltage, input/output polarity, connection seating and controller mode.
Dim far end	Run/feed limit, cable voltage drop, contact resistance and load. Do not only increase driver wattage.
Flicker	Loose connections, driver loading, compatible dimmer and stable supply.
Hot or damaged area	Switch off. Inspect the mounting and connection; replace damaged parts before use.

Power each run of up to 10m from one end, with correct + and - polarity. Have the cable sizes, protection and distribution checked for the actual installation. Keep separate powered sections within their driver and connection ratings.

Keep the strip dry and isolate power before cleaning or maintenance. This range carries a 7-year warranty; contact ATOM LED for help with a fault or the exact fitting method.