



LED Technologies
Creative LED & Effect Technology for the Trade Professional

32W LED LIGHT SHEETS

RGBW - Installation & Handling Instructions

32W Honeycomb Flexible LED Light Sheet

CCT - Installation & Handling Instructions

The 32W Honeycomb Flexible LED Light Sheet from LED Technologies is a highly flexible light panel designed primarily for use in light boxes and signage however, this superb product is equally suitable for many other applications and projects where a bright, flexible lighting solution is required.

The panels are supplied in packs of three units and each panel features 800 x high quality LED's. Panels can be cut, flexed, and linked together as required and then fixed into place with the attached 3M backing.

These RGBW colour changing LED panels feature a combination of Red, Green, Blue and White LEDs allowing over 16 million possible colour combinations with the added advantage of a daylight white (4000K) when connected to a compatible four channel LED controller.

Note: Various controllers are available separately from LED Technologies, please contact our technical sales team for advice and further information.

Key Features:

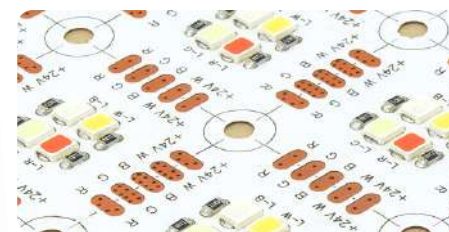
- ✓ Can be cut to size as required
- ✓ Very flexible
- ✓ 120° beam angle
- ✓ 800 x 2835 LEDs at 32W / sheet
- ✓ Light sheet size 480mm x 240mm
- ✓ Linkable up to 3 x Sheets together
- ✓ Supplied in packs of 3 Sheets
- ✓ Powerful 300LSE 3M™ sticky backing

Preparation

Each panel has a premium 300LSE 3M™ sticky backing, it is important that the surface that the panel is attached to is clean and free from grease and dust to allow the backing to create a strong bond with the surface. If the panel is to be stuck onto a porous surface such as wood, there are additional fixing holes positioned at various points across the panel (see the illustration below). These holes allow you to further secure the panels with a screw.



300LSE 3M™ Peelable Back



Fixing Holes (Screws)

We recommend using an M3 self-tapping screw with a flat head approximately 7mm in diameter. Please ensure that you use a non-corrosive screw so that moisture does not cause the screw to rust, as this can then spread to the exposed terminals on the Flexi Sheet. Care must also be taken not to damage the panel by over tightening the screw.



It is important to plan ahead, take time to lay the panels over the area that they will be attached to, making a note of any cutting points and connections. Consider the length of the link leads when setting out the panels, it is important that the plugs and sockets make a good connection, the link leads should click firmly into place. Ensure that you make any cuts to the panels before you fix them into place. Mark out the position of the panels with a pencil which will make it easier to align them when sticking into place.

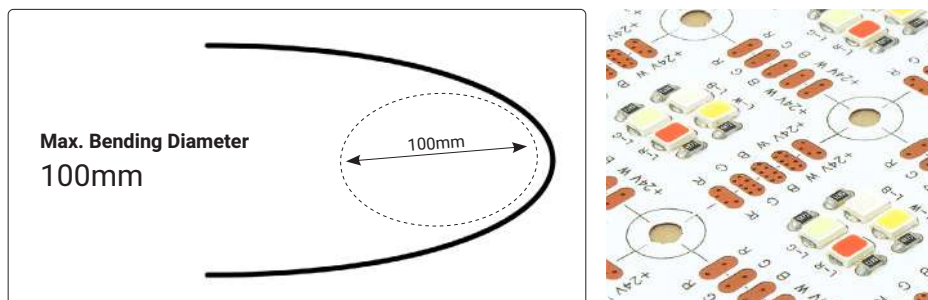
Important: Once the cover for the 3M sticky backing is removed and the panels are fixed into place, damage will occur if you try to remove or reposition the panels, this will invalidate the warranty. We recommend starting at one side and then carefully lower the panel down sticking into place as you go.

Cutting, Bending & Linking



We recommend a maximum bend of 100mm diameter, the panels can be cut vertically, horizontally, and diagonally only along the marked cutting points. It is also possible to cut out sections from the centre of the panel following the cutting points if required.

See illustration below showing the cutting points and bend diameter.



The cutting points can be identified by the thin black lines along the LED Sheet that cross at the copper tabs. The best method of cutting the Flexi Sheet is with large sharp scissors, if you want to cut sections out of the centre of the panel use a sharp "box cutter" type knife or similar product.

Recommended Tools



Sharp Scissors



Sharp Stanley Knife



Strong Ruler

Note: Extreme care must be taken when using sharp knives and scissors to avoid injury. We suggest if using a knife that you lay the Flexi-Sheet onto a flat wooden surface bearing in mind the blade will damage this surface as it cuts through the panel.

Connections & Power Input

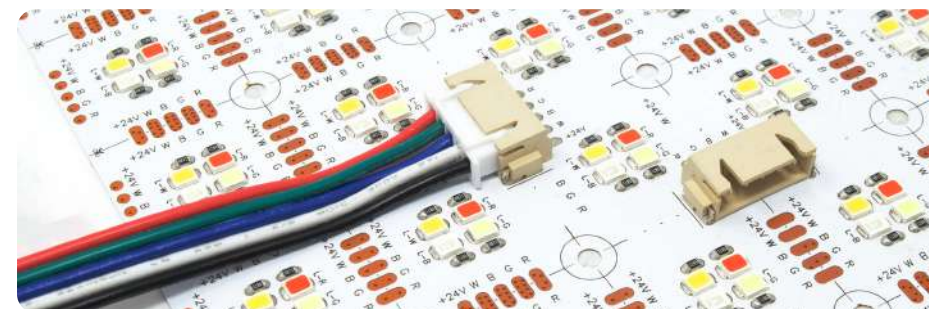


Each panel has a number of 5-pin male connection points that are set back from the edge of the panel. Both power input and link cables may be connected to any of these connecting points. The 5-core power input cable is fitted with a 5-pin female socket with 5-core wire tails to the other end to allow you to connect to a compatible four channel LED controller which would then be connected to a suitable 24V LED Driver. The 5-core link cables have 5-pin female socket at each end.

Honeycomb Flexi LED Light Sheet Starter Wire
Pack 10pcs for 32W RGBW Version
(Product Code: 102.121)



Honeycomb Flexi LED Light Sheet Link Cable
Pack 10pcs for 32W RGBW Version
(Product Code: 102.122)



Please note that the link and power cables used on the single colour and CCT 32W panels cannot be used with the RGBW colour changing panels as they require 5-core cables and connectors.

Note: Up to 3 x 32W RGBW panels can be linked together in any order, these can be powered from a single 4 channel LED controller powered by a 24V LED Driver.

Recommended Flexi Sheet Drivers



These RGBW panels will require a compatible four channel LED controller to enable adjustment of the colours. The controller would then need a 24V constant voltage driver as a power source. The size of the driver is determined by the number of panels that you are linking together. Each panel is 32W so if you are linking three panels together, that would require a total of 96W.

We recommend over-specifying the driver so that it runs at around 75% of the driver value this will extend the life of the driver.

Recommended Drivers



LED Tech

LEDTech | 150W 24V LED Driver

Product Code: **100.529**

For 3 x 32W Sheets we would recommend our 24V 150W driver



LED Tech

LEDTech | 60W 24V LED Driver

Product Code: **100.628**

For a single Sheet (32W), the closest driver would be our 24V 60W driver.

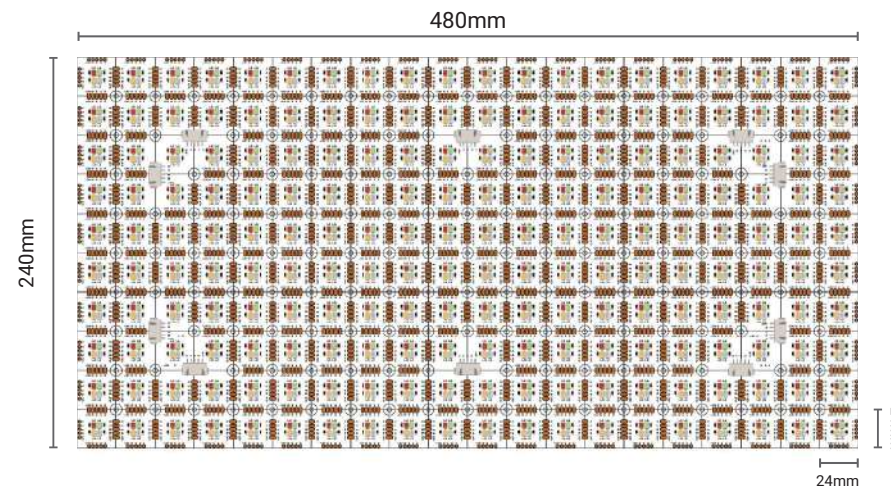
Technical Help & Advice



For any additional technical help and advice on our LED Flexi Sheets and our recommended LED drivers, please call our technical sales team by phone, email, or live chat and what's App on our website.

☎ 01260 540014 ✉ sales@ledtechnologies.co.uk 📞 07552 027456

Product Dimensions



Product Warranty



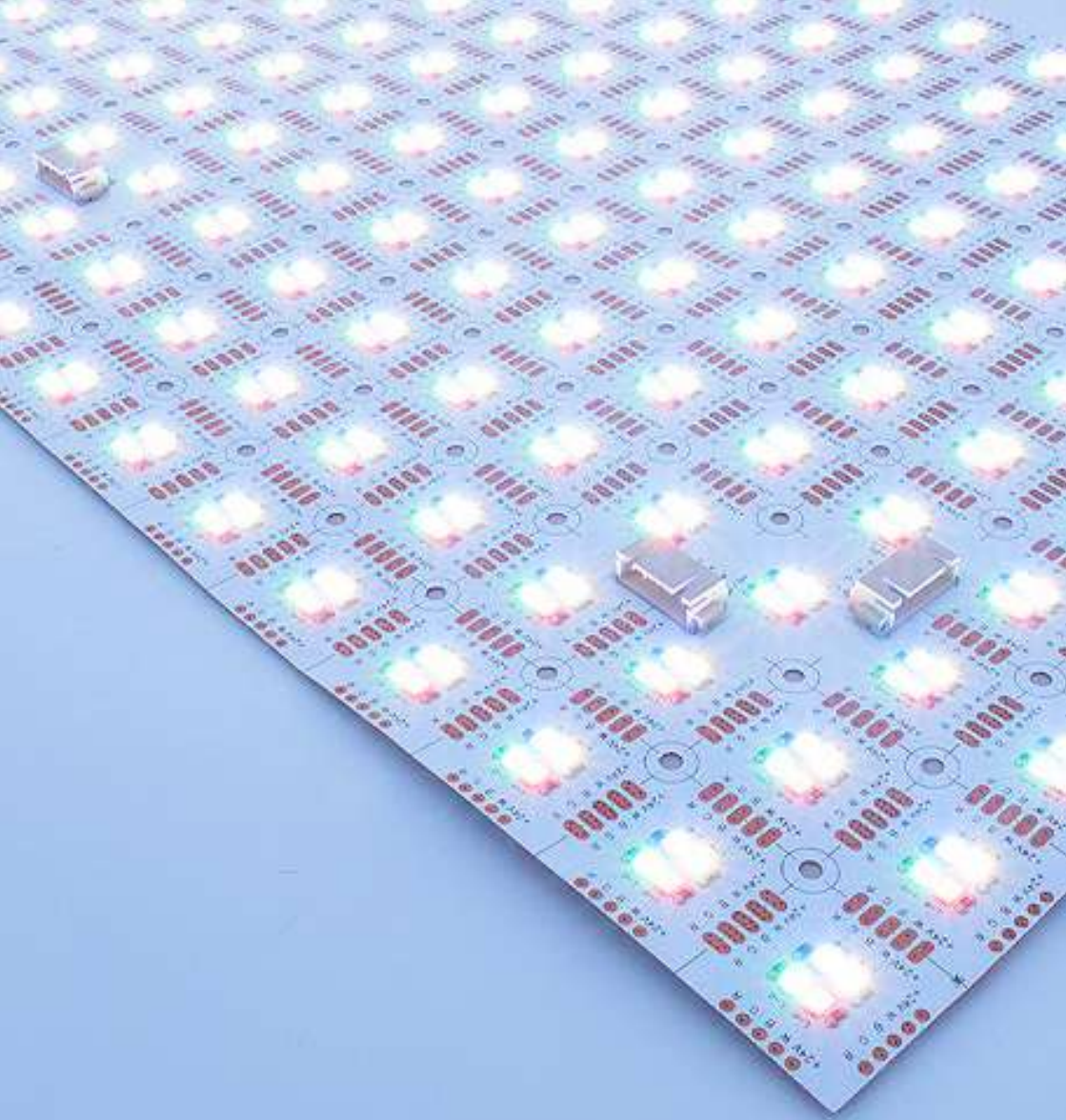
Flexi LED Light Sheets are for professional installation and set up only. Installation must be adhered to. This manual is provided to guide you on safely installing this product. This must be followed correctly to ensure a long life.

Your warranty is void if we deem the following:

Water ingress due to incorrect assembly – water ingress can happen slowly and failure may take some time, you are not covered under warranty if there is any evidence of water ingress.

LED Failure. Normally a small number of LEDs will fail in the 1st year, and this is not a product fault and will be considered acceptable.

+/-10% Tolerance on all specifications. This manual is by no means exhaustive. We reserve the right to change specifications without notice. E&OE



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Mon - Thurs: 8:30 to 17:00
Fri: 8:30 to 16:30



Live Chat

Mon - Thurs: 8:30 to 16:45
Fri: 8:30 to 16:15

(E&OE) Specifications may change without notice

www.ledtechnologies.co.uk