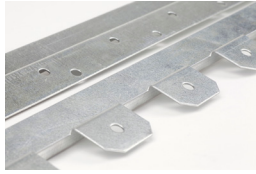


# Bright Green Matrix Install Guide

## Components required



20 AWG wire



Install clips /  
Hanging rail



Bright Green Matrix



Power supply



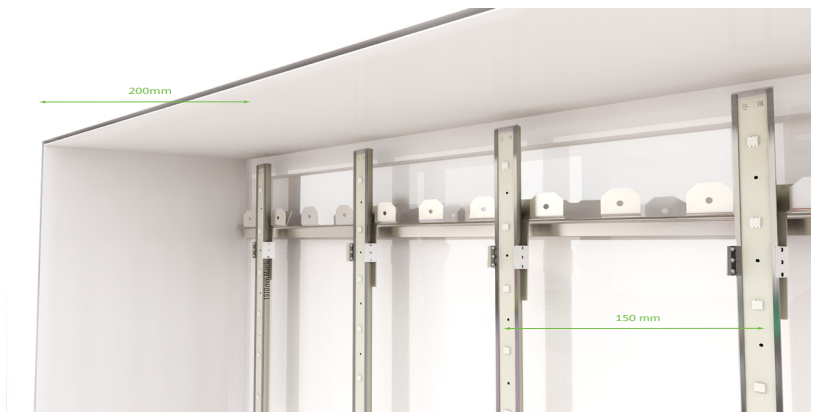
Wire connectors

## Layout

Determine the layout of Bright Green Matrix based on the size and depth of the area to be illuminated using the guidelines below. Alternatively, request a layout drawing from Bright Green Technology.

Recommended minimum pitch per depth:

Depth* (mm)	Pitch using MS-S50	Pitch using MS-S25
150	150	---
200	200	---
250	250	---
300	300	300
400	---	400
500	---	400
600	---	400



\* distance between front of LED and rear of diffuser

## Construction

Bright Green Matrix is a rigid, resin-filled and modular lighting range. Its IP67 construction makes it suitable for a wide range of environments and lighting applications.

Principle Materials:

Aluminium, FR4-PCB, epoxy resin

## Control

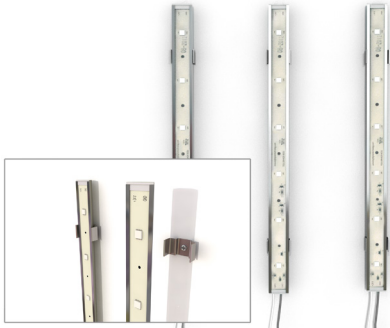
Please see Bright Green Control for further information

Tel +44 (0) 1932 355221 Email [info@brightgreentechnology.com](mailto:info@brightgreentechnology.com)  
Find out more at [www.brightgreentechnology.com](http://www.brightgreentechnology.com)

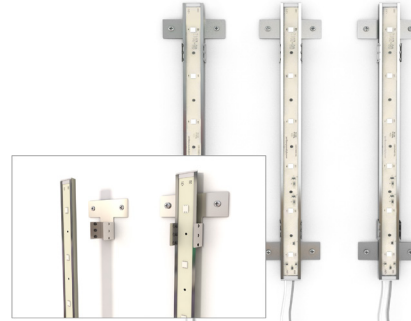
**bright green**  
technology

# Bright Green Matrix **Install Guide**

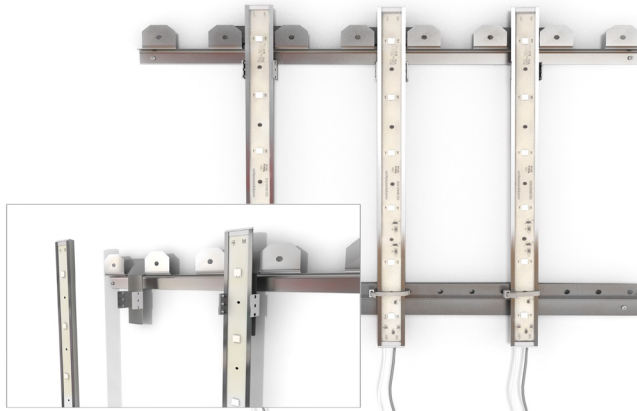
## Installation Options



Spring clip - Part no. MA-003  
For standard installation (included)



Heavy duty bracket - Part no. BGT-PT-060  
For installation where fixture security is critical



Installation rail - for large format installs, supplied as 3m lengths as standard:  
Part no. BGT-PT-038 - bottom rail + compatible cable ties (one per unit)  
Part no. BGT-PT-020 - top rail + hanging T bracket (one per unit)

## Installation Note

Do not apply power until all connections are made

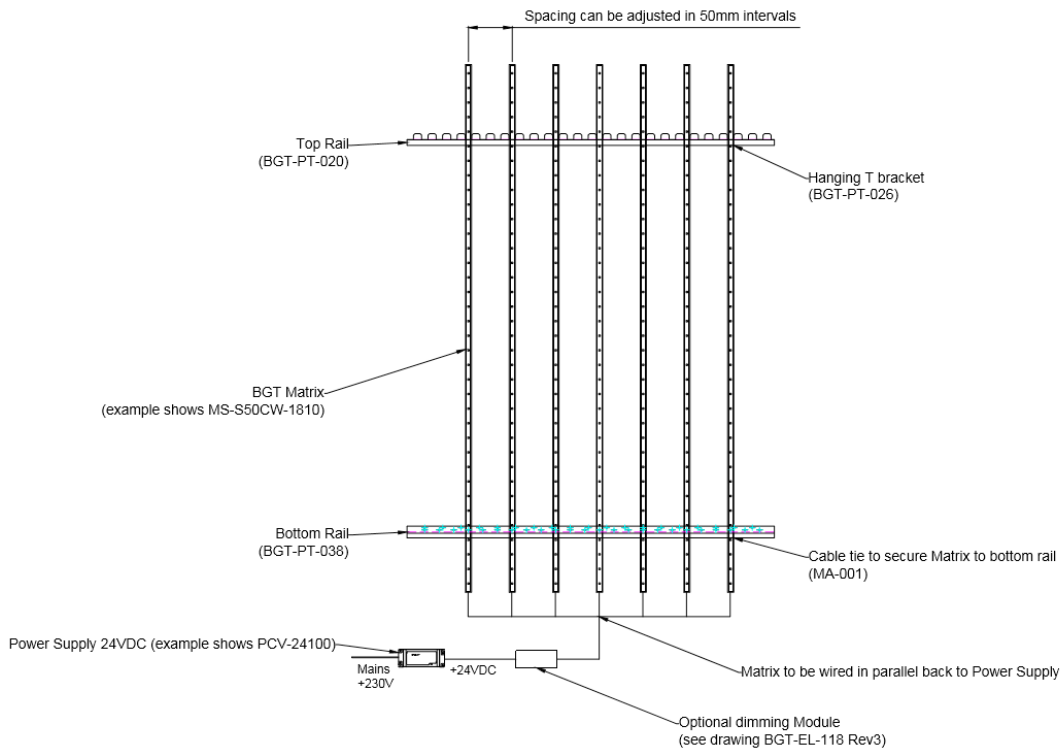
Ensure all components are IP67 to maintain rating

Distance and cable gauge between installed units and power supply should be taken into account to ensure no voltage drop

Unused wire tail should be capped with a suitable connector/terminator

# Bright Green Matrix Install Guide

## Electrical layout example



## Electrical Connection

- 25mm pitch - connect to a 24V power supply.  
If connected in series, total length of the group must not exceed 3.6 metres.
- 50mm pitch - connect to a 24V power supply.  
If connected in series, total length of the group must not exceed 4 metres.
- 100mm pitch - connect to a 12V power supply.  
If connected in series, total length of the group must not exceed 8 metres.

## Operation Notes

- Operating temperature range: -30° to 70°C.
- Voltage range: 24V DC (25mm & 50mm), 12V DC (100mm).
- Avoid mechanical stress during and after installation. Avoid straining the cable or cable/module join.
- Bright Green Matrix is not recommended for external marine environments.
- Bright Green Matrix is ECA compliant for amenity, accent and display lighting.
- UMSUG charge codes for 25mm and 50mm variants are available on request.

# Bright Green Matrix Install Guide

## Storage

Storage temperature range: -30 to 30°C

Store in a cool, dry place. Protect from dust and direct heat

## Handling Notes

Do not bend or cut Bright Green Matrix

## Maintenance

Bright Green Matrix is not user serviceable, no planned maintenance is required