

# Linear Light LED Strip Manual, Specifications, Installation, Maintenance & Safety



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**READ THIS FIRST. IMPORTANT SAFETY INFORMATION**

**DO NOT exceed rated maximum voltage**

**CHECK supply circuit before energising!**

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*At The Forefront of Electronic & Fibre Optic Lighting Technologies*

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## Installation

### *Mounting*

- Do not install where water or high humidity may be present without further protection.
- Isolate from all conductive materials (we recommend the use of our shallow track as a minimum, Digilin Stock Code: LLST. Certain applications may require additional protection).
- Ensure adequate ventilation around strips to avoid overheating
- Do not mount with the components or board touching any flammable surfaces.
- Do not install under mechanical stress
- Allow for expansion due to changes in temperature.
- Please be aware that, while the systems has a very long (exceeding 80,000 hours) design life, faults may still occur and provision needs to be made for maintenance.

### *Wiring*

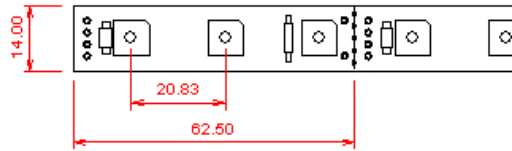
- Supply power feeds so that no point on the track is more than 2m away from a supply connection (4m for constant current strips).
- To ensure even light output continuous strips should be joined along their length.
- Only join strips powered by the same supply.
- Individual fusing of strips may be required, in particular where large capacity supplies are used.

## Maintenance

- Strips normally require no maintenance except for cleaning
- Isolate from power before accessing
- Visually inspect strips at the time for any obvious faults
- The strips may be dusted with a non conductive brush. No fluids should be used
- If this procedure does not remove contaminants please contact Digilin for further advice.

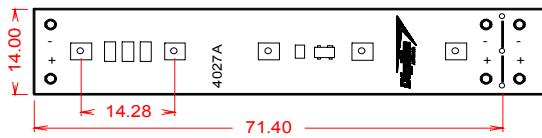
## Specifications

### Single Colour UltraBright



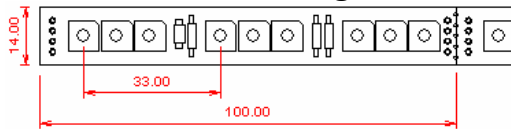
Overall Thickness 7.7mm

### UltraBright White Constant Current



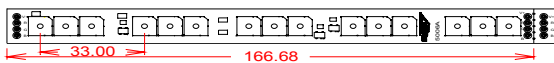
Overall Thickness 3.5mm

### RGB UltraBright



Overall Thickness 7.7mm

### RGB UltraBright Constant Current



Overall Thickness 7.7mm

All strips 500mm long.

Digilin Stock Code	Colour	Voltage (V)	mA	Watts	Max 500mm Strips from Power Feed	Beam Angle	Lumens
LL500-UB	Blue	15	280	4.2	4	110	76
LL500-UG	Green	15	280	4.2	4	110	88
LL500-UC	Cyan	15	280	4.2	4	110	88
LL500-UY	Yellow	12	280	3.36	4	70	45
LL500-UR	Red	12	280	3.36	4	70	72
LL500-UO	Orange	12	280	3.36	4	70	86
LL500-UW-CC	White	24	190	4.56	15	120	95
LL500-UWW-CC	Warm White	24	190	4.56	15	120	63
LL500-URGB	RGB	-	175 per colour	6.4	4	~100	148
LL500-URGB-CC	RGB	24	120 per colour	8.6	10	~100	148

## Maximum Recommended Number of LED Strips for Each Type of Power Driver

NOTE. All LED strips 500mm in length.

Power Driver Type	Rated Current	Rated Power	Recommended Max Current (continuous)	Blue, Green, Cyan	Yellow, Red	UltraBright RGB	UltraBright RGB-CC (used with PWM driver)	White	Constant Current All Colours
LPC3434-12	2.5A	30W	2.25A		8				
LPC3434-15	2A	30W	1.8A	6				5	
LPC3240-12	4A	50W	3.75A		13				
LPC3244-24	2A	50W	1.8A				5		9
LPC3110E-12	12.5A	150W	11.25A		40				
LPC3112E-15	10A	150W	9.0A	32				25	
LPC3112-3CH-DMX	10.5A	150W	3 x 3.5A	3 x 12	3 x 12	20		3 x 9	
LPC3114E-24	6.5A	150W	5.85A				16		30

Where multiple strips are electrically connected end-to-end, power may need to be connected at regular intervals along the strips so that even intensity is maintained. Maximum distance on UltraBright strips from power connections is:

- 2m for non-Constant Current Strips
- 4m for Constant Current RGB Strips
- 7.5m for Constant Current Single Colour Strips

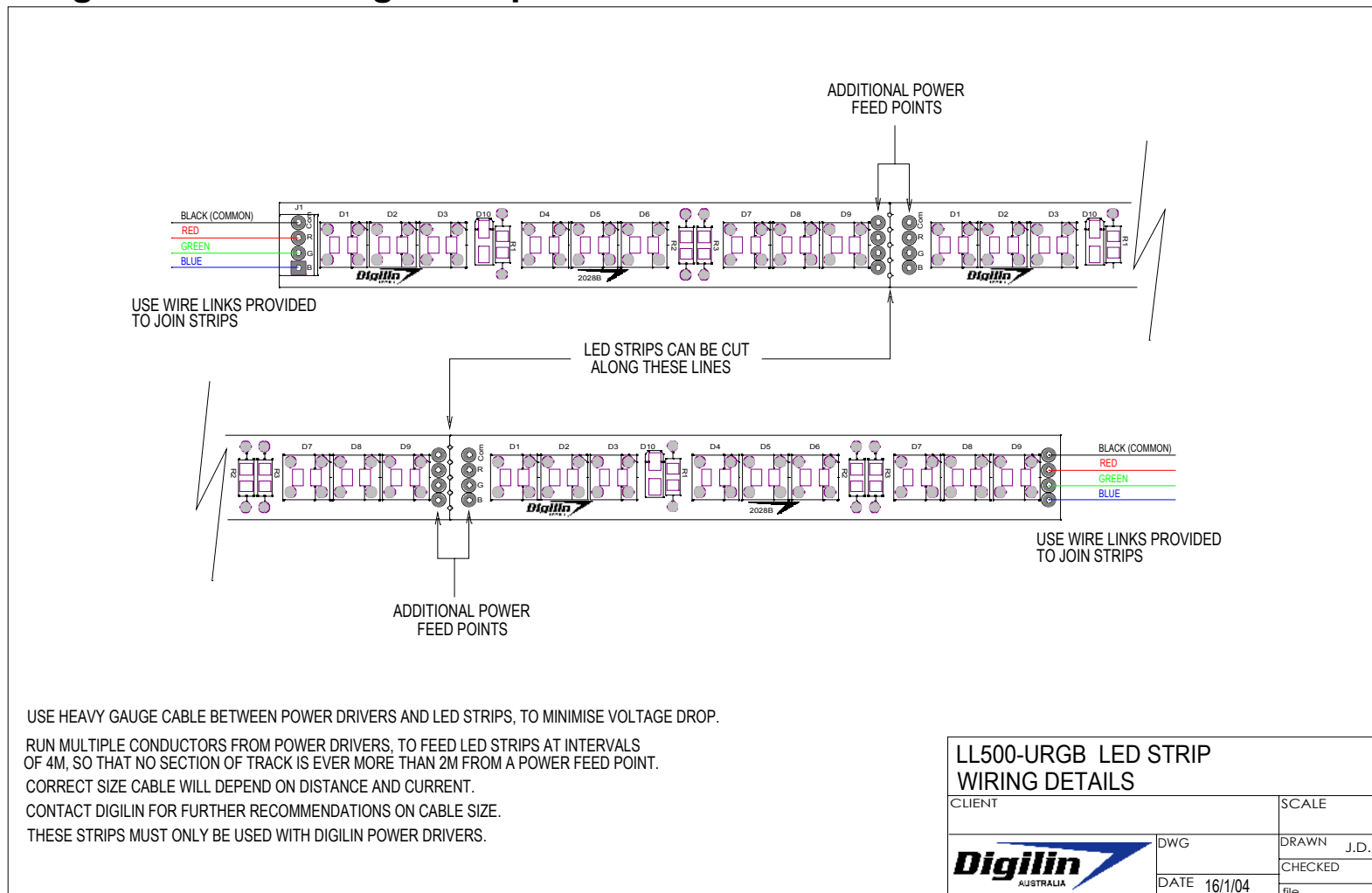
Do NOT connect two separate power drivers together

RGB strips require LPC3112-3CH-DMX which is a self contained 3 channel Power Driver with integral DMX Receiver

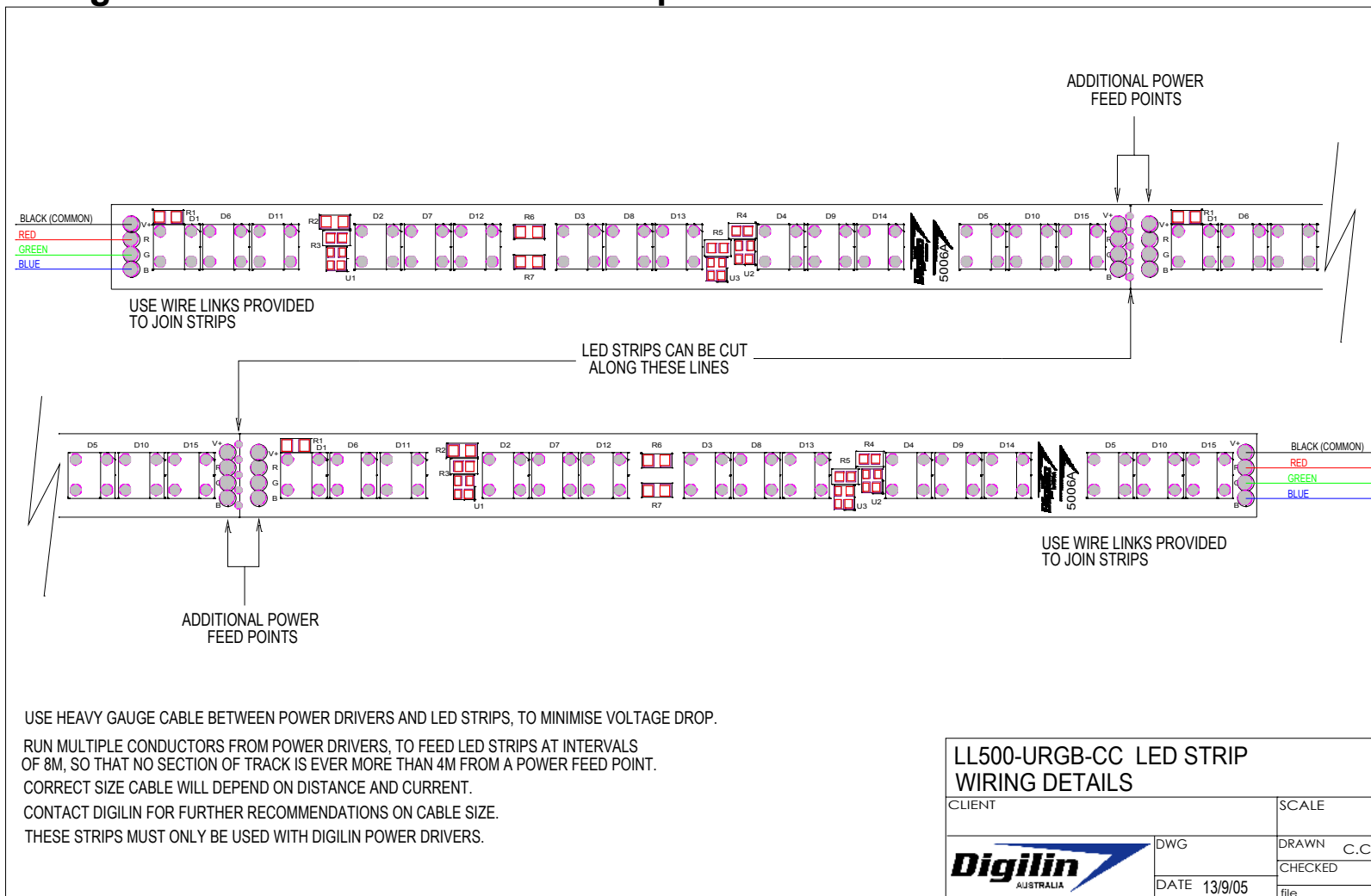
RGB-CC strips require LDM-PWM-3 which is a self contained 3 channel PWM Driver with integral DMX Receiver

Note: The LDM-PWM-3 requires a 24V power controller – LPC3244-24 or LPC3114E-24

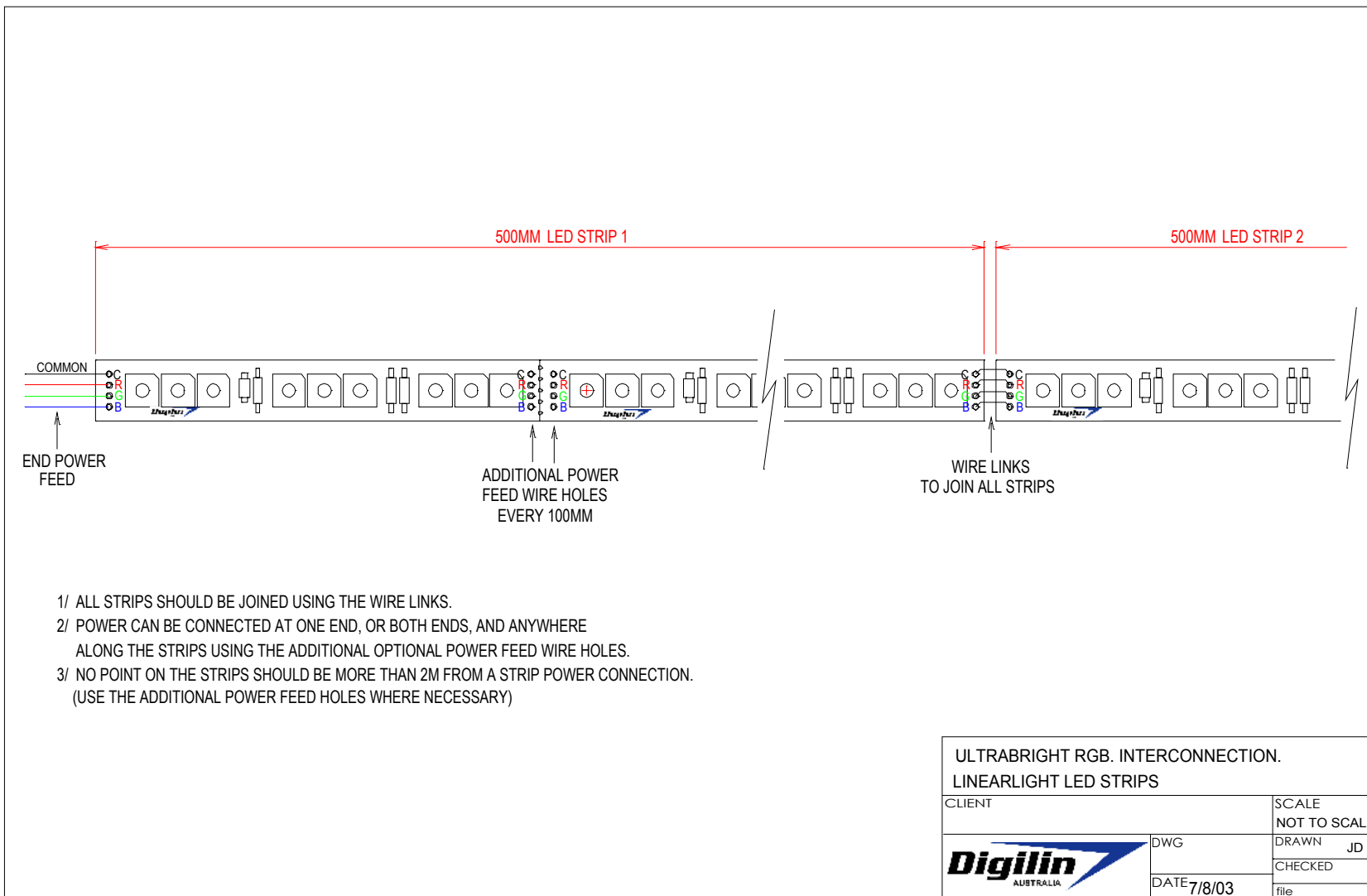
## RGB Wiring Details – Analogue Strips



## RGB Wiring Details – Constant Current Strips



## RGB Interconnections – Analogue Strips



## RGB Interconnections – Constant Current Strips

