

UltraFlex Flexible Led Strip Specifications & Installation Guide



LED Lighting and Control
Designed and Manufactured in Australia

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Product specifications are subject to change without notice.

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Safety Notes

- Do not press on LEDs when installing
- Do not over flex the strip
- Installation should only be performed by a qualified professional
- Install in accordance with all appropriate wiring standards
- Never connect a LED fitting to a driver that is powered. Doing so may result in damage to the LED.
- Always make sure the output voltage range and output current of the LED driver match the requirements of the LED fitting. Failure to do so may result in damage both the driver and fitting.

Specifications

Inputs

			Units
Voltage	Nominal	24	VDC
	Min	23	
	Absolute Max	25	
Drive Current		360	mA/m
Watts		8.64	W/m
Maximum run from power connection		4	m

Optical

				Red	Green	Blue	Yellow	Units
Order Code	W30	W41	W60	R	G	B	Y	
Beam Angle	110							°
Colour Temp	3050	4100	6000					K
Wavelength				620 – 630	520 – 535	465 – 475	585 - 595	nm
Typical Lumens	720	780	840	192	432	96	192	lm/m

Dimensions

All dimensions in mm



UltraFlex **Single Colour** LED Strip is supplied in 4m Reels, LED spacing 8.33mm.
Each reel has a total of Qty 80 - **50mm** segments.
Note: **50mm** segment is minimum usable length.

Installation

Mounting

- Do not attempt to make sharp bends with the strip. Right angles should be achieved by cutting the strip and joining with wires.
- Over-flexing the strip may cause it to snap.
- **Do not** press on the LEDs when installing. Doing so may damage the LEDs.
- Clean the surface to be mounted to with isopropyl alcohol first.
- Do not install where water or high humidity may be present without further protection. Note that the Javelin extrusion is NOT sealed.
- 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 system has a very long operational life, faults may still occur and provision needs to be made for maintenance.

Wiring

- No continuous run of strips should exceed the specified maximum run value without additional power feeds. Refer to the wiring diagram.
- Only join strips powered by the same supply

Maintenance

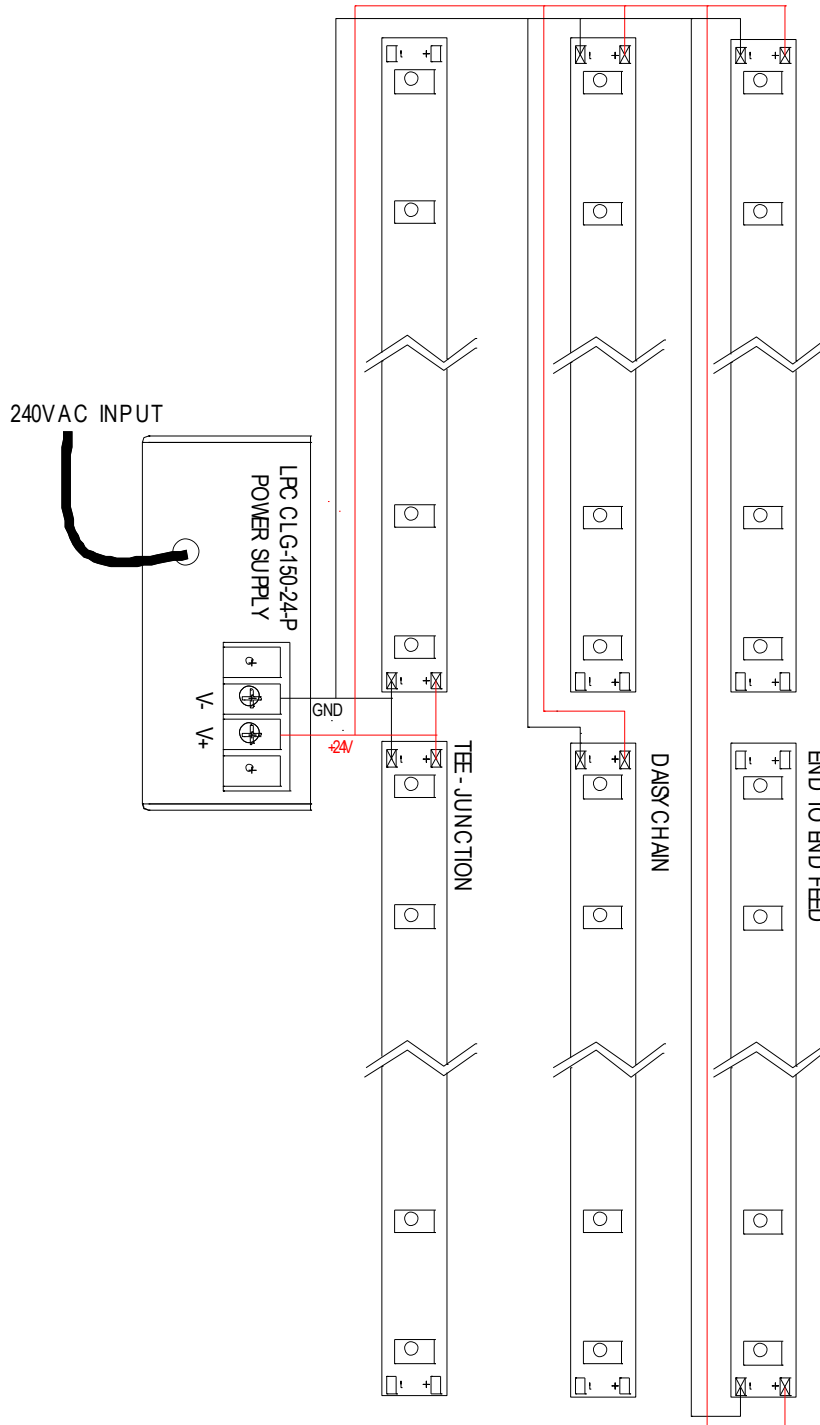
- Strips normally require no maintenance except for light cleaning
- Isolate from power before accessing
- Visually inspect strips at the time for any obvious faults
- The strips may be dusted with a non conductive brush. No fluids should be used
- If this procedure does not remove contaminants please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

Wiring Diagram – Single Colour – Non-Dimming

The diagram below shows 3 options to connect two lengths of UltraFlex Single Colour LED Strip, End To End, Daisy Chained and Tee-Junction.

Note: Do not exceed **Maximum Load Capacity** for Power Driver.

Note: Do not exceed **Maximum Length of Strip** from power connection.



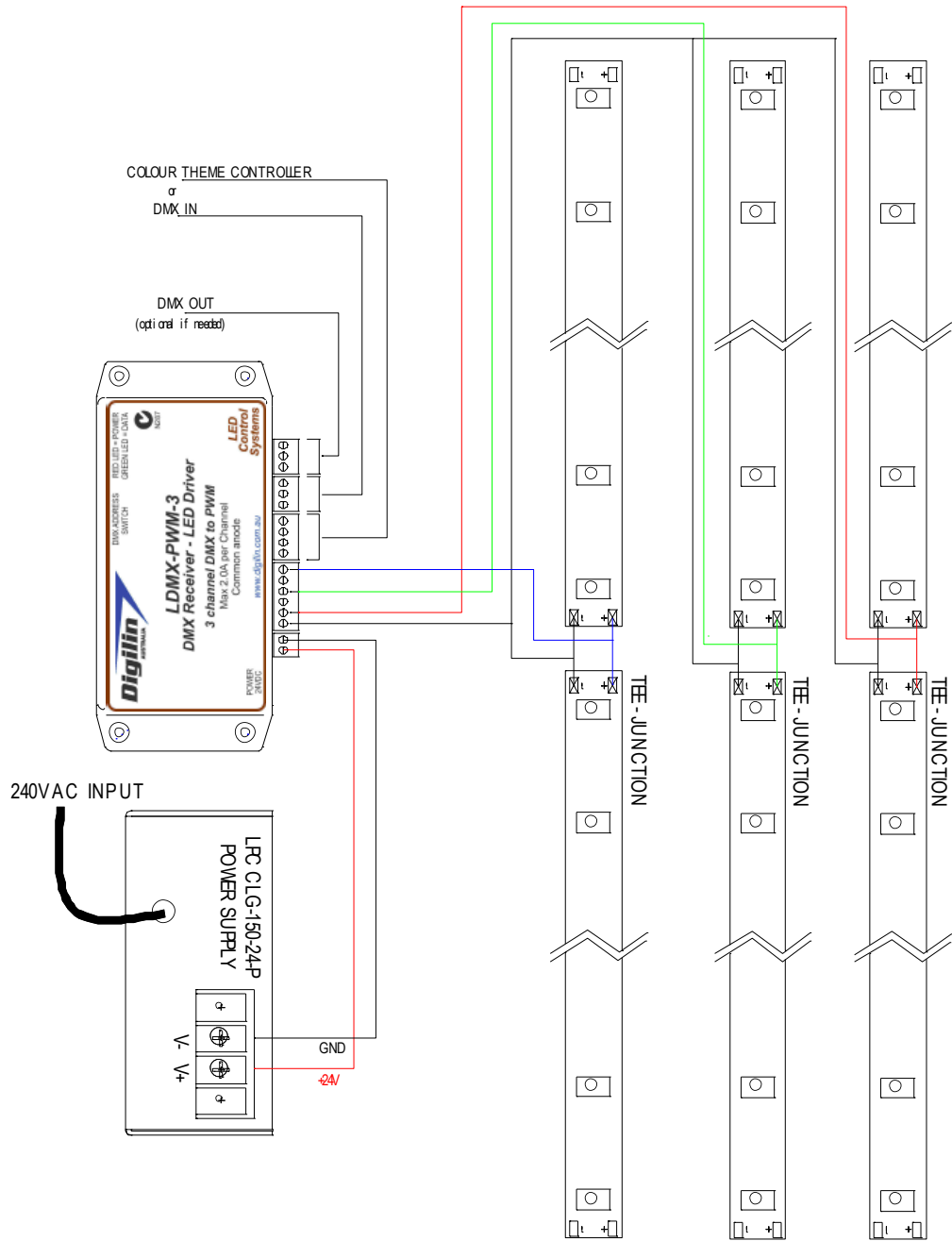
Wiring Diagram – Single Colour Dimming – LDMX-PWM-3

The diagram below shows Tee-Junction connections for six lengths of UltraFlex **Single Colour** LED Strip.

Note: Daisy Chained or End To End are two other connection options.

Note: Do not exceed **Maximum Load Capacity** for Power Driver.

Note: Do not exceed **Maximum Length of Strip** from power connection.



Wiring Diagram – Single Colour Dimming – LDP-CV-5A

The diagram below shows 3 options to connect six lengths of UltraFlex **Single Colour** LED Strip, End To End, Daisy Chained and Tee-Junction.

Note: Do not exceed **Maximum Load Capacity** for Power Driver.

Note: Do not exceed **Maximum Length of Strip** from power connection.

