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LED PUCK RGBW WIRING GUIDE

INSTALLATION

READ BEFORE START

The following instructions are designed to help you ensure a safe and professional installation. Observe all the following steps.

CONTENTS

This document contains 3 parts:

1. Driver Details
2. Wiring Diagram
3. Installation Guide

EQUIPMENT CHECKLIST

Some of the items you will need include:

- Snap Fix / Removal Tool (provided)
- Cable Snake

GENERAL NOTES

All LED Pucks are factory tested for a minimum of 24hrs.



LED Puck RGBW is a Plug & Play system designed for ease of installation and maintenance.

CAUTIONS!

Observe the following cautions.



LED PUCK INSTALLATION SHOULD BE CARRIED OUT BY A LICENSED ELECTRICIAN ONLY.



DO NOT UNDERTAKE INSTALLATION WITH DRIVER POWERED.



ENSURE THAT WIRE INSULATION IS NOT DAMAGED ON SHARP INTERNAL BURRS



READ AND OBSERVE THE PRECAUTIONS ON YOUR CHOSEN LED DRIVER. ALWAYS CONSULT THE DRIVER MANUFACTURER OR YOUR DISTRIBUTOR IF YOU HAVE ANY QUESTIONS.



LED PUCKS WILL OVERHEAT AND MAY CAUSE DAMAGE IF KEPT RUNNING OUTSIDE THE RAIL CONTINUOUSLY.



NEVER CONNECT (HOT PLUG) LED PUCKS TO A POWERED DRIVER AS THIS CAN DAMAGE LEDS.



IT IS ESSENTIAL THAT YOU CONTACT US AT PLANET LIGHTING PRIOR TO INSTALLATION IF YOU CHOOSE TO SUPPLY YOUR OWN DRIVER.



ISSUES ARISING FROM A DRIVER NOT SUPPLIED BY US WILL NOT BE COVERED UNDER WARRANTY.

DRIVER DETAILS

RECOMMENDED DRIVER

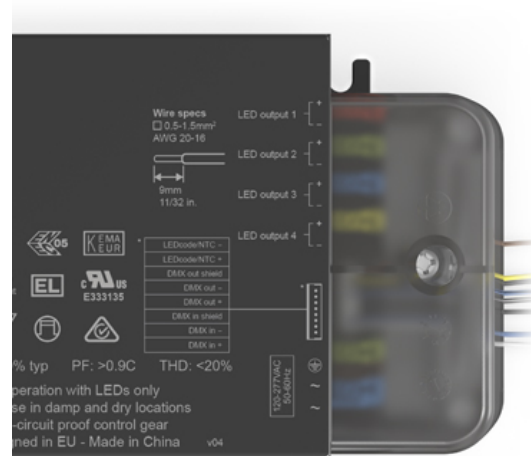
Drivers that are supplied by Planet will come pre-programmed with all parameters optimised for LED Puck RGBW.

Planet Lighting recommends the following driver for LED Puck RGBW:

eldoLED POWERdrive 561/A (or its upcoming replacement: **POWERdrive 50SA-M4Z0X**).

Driver details:

- High quality ELV 4 channel DMX/RDM driver (max output is 55VDC)
- Drives 1 to 15 RGBW Pucks, with smoothed logarithmic dimming curves, and programmable power scaling
- Enables full power for single colours without the risk of over-running with multiple colours. This allows the output to still drive at full power however at reduced power if run with other outputs. For example, assuming 500mA is the current you set the outputs at, red at 100% run simultaneously with green at 100% will give approximately red at 250mA and green at 250mA (that is, total current still 500mA).



eldoLED POWERdrive 561/A



SUPPLYING YOUR OWN DRIVER? (NOT RECOMMENDED)

It is essential that you contact us at Planet Lighting if you are supplying your own driver. Note, damage arising from supplying your own driver will not be covered under warranty.

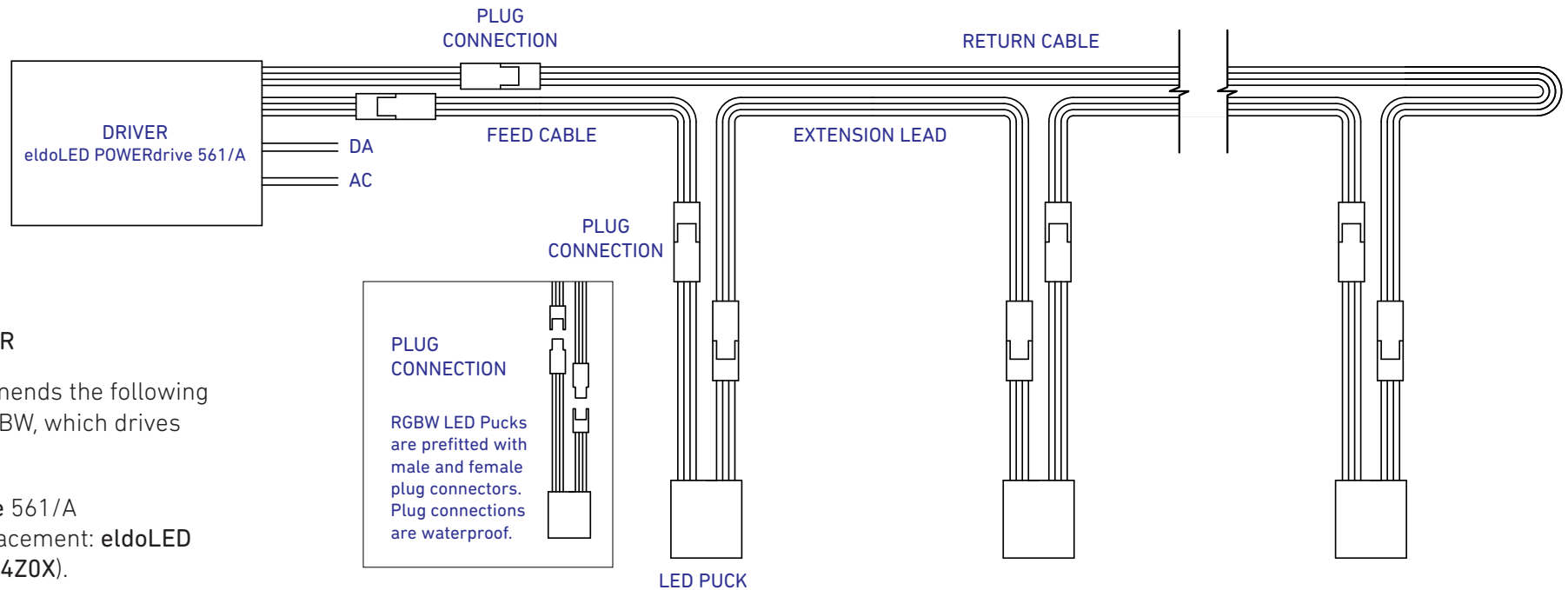


ISSUES ARISING FROM A DRIVER NOT SUPPLIED BY US
WILL NOT BE COVERED UNDER WARRANTY.

WIRING DIAGRAM

LED Puck RGBW is a Plug & Play system designed for ease of installation and maintenance.

DRIVES 1 TO 15 RGBW LED PUCKS



RECOMMENDED DRIVER

Planet Lighting recommends the following driver for LED Puck RGBW, which drives 1 to 15 LED Pucks:

eldoLED POWERdrive 561/A
(or its upcoming replacement: eldoLED POWERdrive 50SA-M4Z0X).

See driver details page for more details.



IT IS ESSENTIAL THAT YOU CONTACT US AT PLANET LIGHTING PRIOR TO INSTALLATION IF YOU CHOOSE TO SUPPLY YOUR OWN DRIVER.



LED PUCKS WILL OVERHEAT AND MAY CAUSE DAMAGE IF KEPT RUNNING OUTSIDE THE RAIL CONTINUOUSLY.



NEVER CONNECT (HOT PLUG) LED PUCKS TO A POWERED DRIVER AS THIS CAN DAMAGE LEDS.

1. RUN CABLES

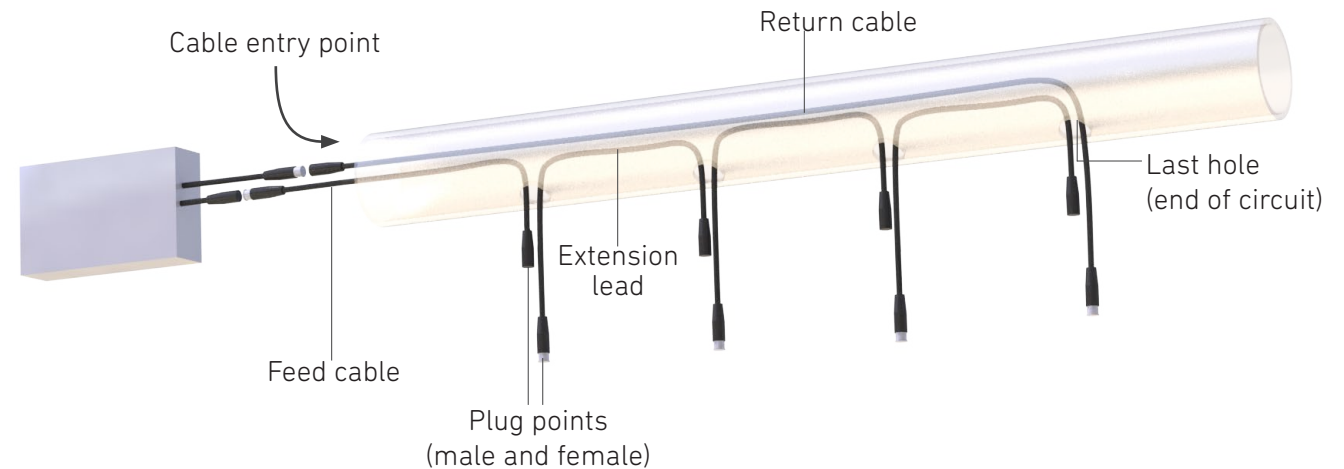
1.1 Run the return cable through the rail for the designated circuit as per wiring specifications.

1.2 Pull return cable through last hole (furthest from the cable entry point – this is the end of the circuit).

1.3 Run the first feed cable to the first hole (from cable entry point end / driver end)

1.4 Run an extension lead from each hole to the adjacent hole as pictured.

NOTE! After running cable, each hole should have one male and one female plug ready for the next step.



BE CAREFUL THAT THE CABLE INSULATION IS NOT DAMAGED ON SHARP INTERNAL BURRS



DO NOT UNDERTAKE INSTALLATION WITH DRIVER POWERED.

2. PLUG IN

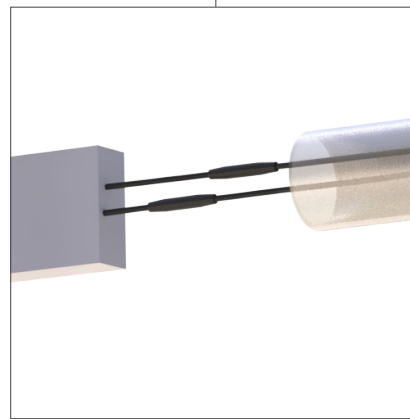
NOTE! NEVER CONNECT (HOT PLUG) LED PUCKS to a powered driver as this can damage LEDs.

2.1 Ensure driver is powered OFF

2.2 For each hole, plug in an RGBW Puck, connecting male to female, and female to male plugs.

2.3 Plug in feed cable and return cable to driver.

NOTE! Driver attached plugs come pre-installed when driver is supplied by Planet Lighting.



2.3 Plug in return cable and feed cable



2.2 Plug in each LED Puck



NEVER CONNECT (HOT PLUG) LED PUCKS TO A POWERED DRIVER AS THIS CAN DAMAGE LEDS.

3. CHECK & TEST

NOTE! DO NOT keep LED Pucks running continuously outside the rail as they will overheat and may damage. Ensure test duration is short.

NOTE! ONLY ONE colour channel at a time should be tested. DO NOT test all channels at once or it may lead to overheat.

Check and test the system outside the rail as follows:

3.1 Ensure all plugs are connected, including the return cable and feed cable are connected to the driver.

3.2 Apply power to the driver.

3.3 Check that ALL the LED Pucks are responding to the DMX / RDM. Ensure to test only one colour channel at a time, as LEDs can overheat outside of the rail. (Red, Green, Blue and White)

3.4 Disconnect power and go to next step.

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3.3 Confirm LED Pucks respond to DMX / RDM input signal



ONLY ONE COLOUR CHANNEL AT A TIME SHOULD BE TESTED. DO NOT TEST ALL CHANNELS AT ONCE OR IT MAY LEAD TO OVERHEAT.



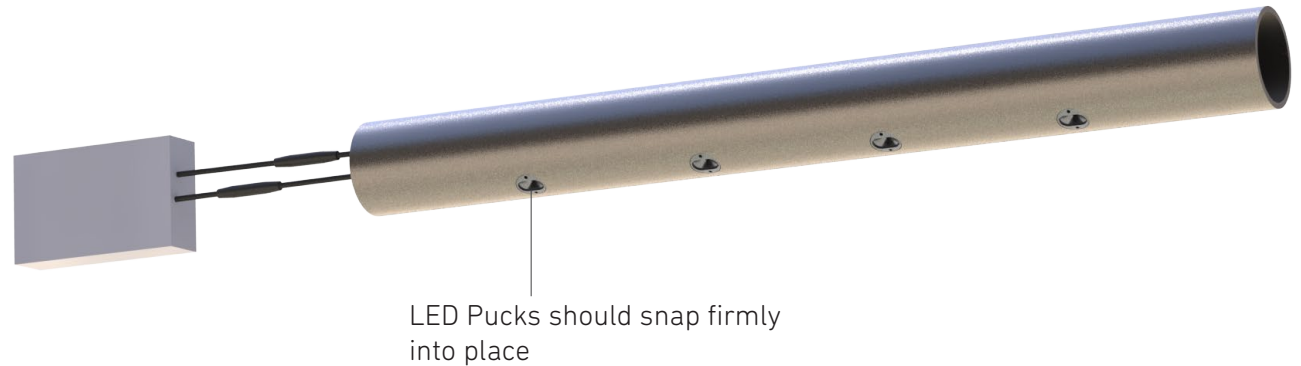
LED PUCKS WILL OVERHEAT AND MAY CAUSE DAMAGE IF KEPT RUNNING OUTSIDE THE RAIL CONTINUOUSLY.

4. INSERT LED PUCKS

NOTE! Perform this step with the driver OFF and power disconnected.

4.1 Push the LED Pucks into the tube. The Pucks should snap firmly and securely into place.

4.2 Ensure correct alignment of LED Pucks. If not use the Snap Fix / Removal tool to correct alignment, taking note to avoid scratching the lens.



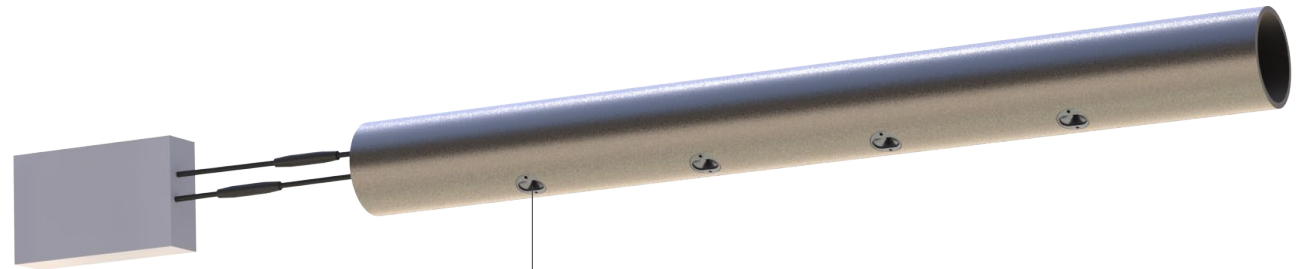
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5. FINAL TEST

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5.1 Apply power to the driver.

5.2 Check that ALL LED Pucks are illuminated as per the DMX / RDM input signal.



5.2 Final check: Confirm LED Pucks respond to DMX / RDM after insertion.