

## 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 4 parts:

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

### EQUIPMENT CHECKLIST

Some of the items you will need include:

- Snap / 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.

## WARNINGS

## CAUTION!

Please observe all of 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.

	Issues arising from a driver not supplied by us will not be covered under warranty.
	M5 Connection plugs must be aligned correctly before connecting. DO NOT FORCE THE PLUG. Follow the M5 connection procedure.

## DRIVER DETAILS

### RECOMMENDED DRIVER

Drivers that are supplied by Ledra Brands will come pre-programmed with all parameters optimised for LED Puck RGBW. Ledra Brands recommends the following driver for LED Puck RGBW:

eldoLED POWERdrive 561/A 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 colors without the risk of over-running with multiple colors. 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



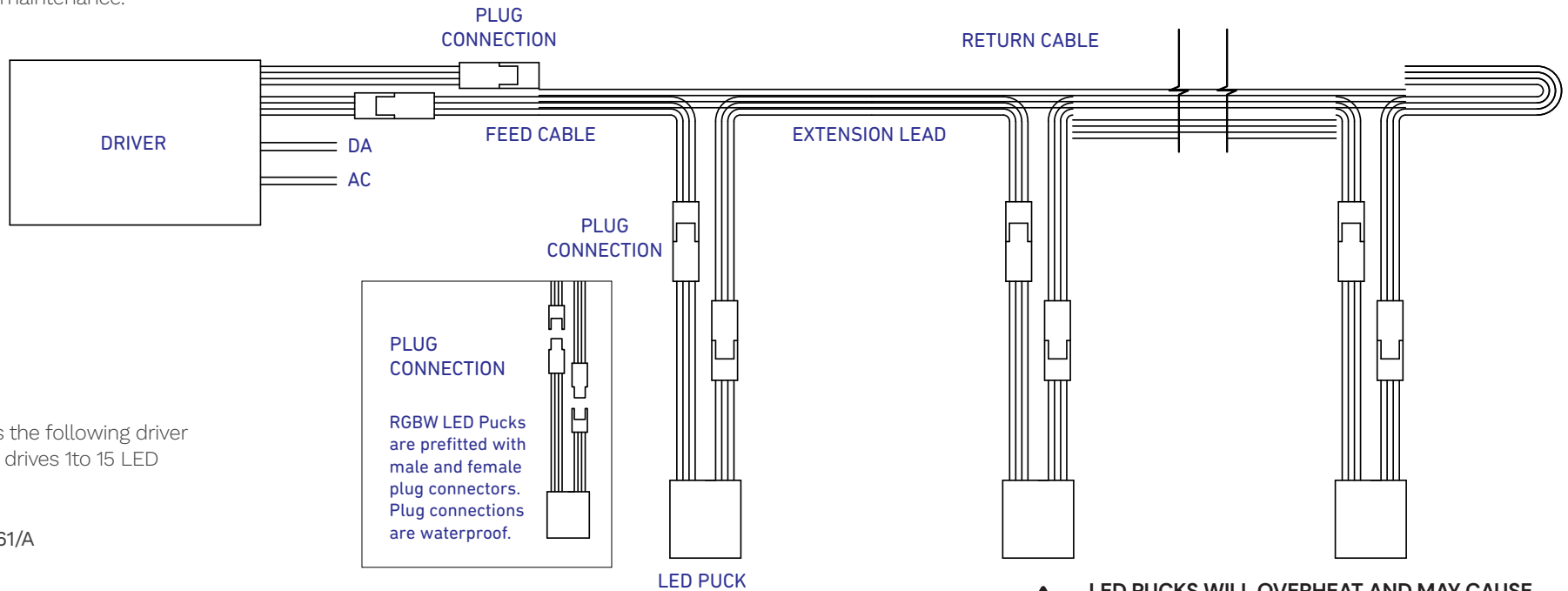
Issues arising from a driver not supplied by us will not be covered under warranty.

# THETA 750 • SNAP RGBW WIRING GUIDE

## WIRING DIAGRAM

DRIVES 1 TO 15 RGBW LED PUCKS

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



### RECOMMENDED DRIVER

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

eldoLED POWERdrive 561/A



**LED PUCKS WILL OVERHEAT AND MAY CAUSE damage if kept running outside the rail continuously.**



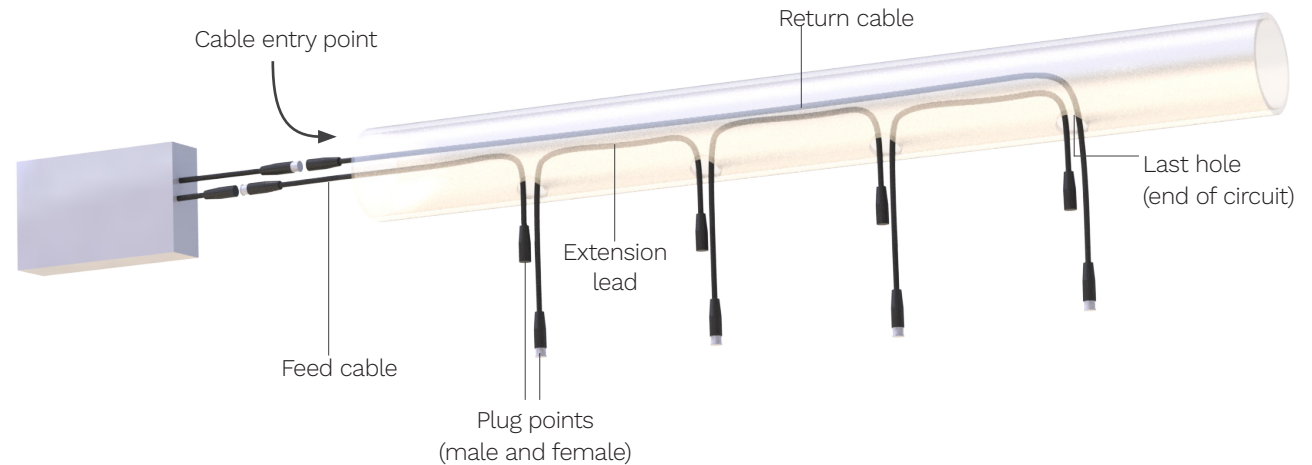
**NEVER CONNECT (HOT PLUG) LED PUCKS to a powered driver as this can damage LEDs.**

## INSTALLATION GUIDE

### 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.

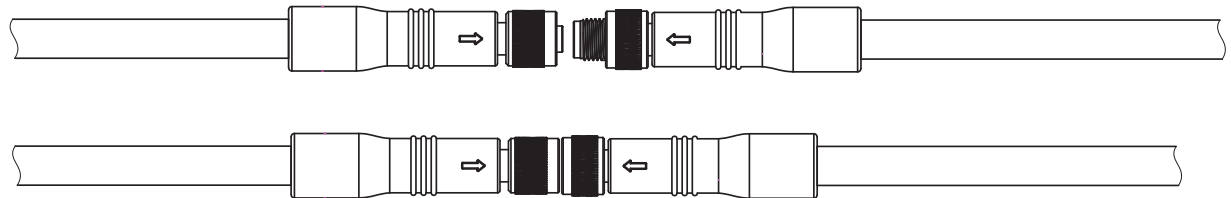
2.3 Plug in feed cable and return cable to driver.

**NOTE!** Driver attached plugs come pre-installed when driver is supplied by Lendra Brands.



### CORRECT M5 CONNECTING PROCEDURE:

1. Align the arrows as shown.
2. Gently connect the connectors with light finger pressure only, if there is any resistance, check arrow alignment – do not force!
3. Gently screw together the threaded sleeve with light finger pressure only.
4. Test that the connection is screwed in place by gently pulling the connectors apart.



**M5 Connection plugs must be aligned correctly before connecting. DO NOT FORCE THE PLUG. Follow the M5 connection procedure.**



**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 color 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 color 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.



3.3 Confirm LED Pucks respond to DMX / RDM input signal



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



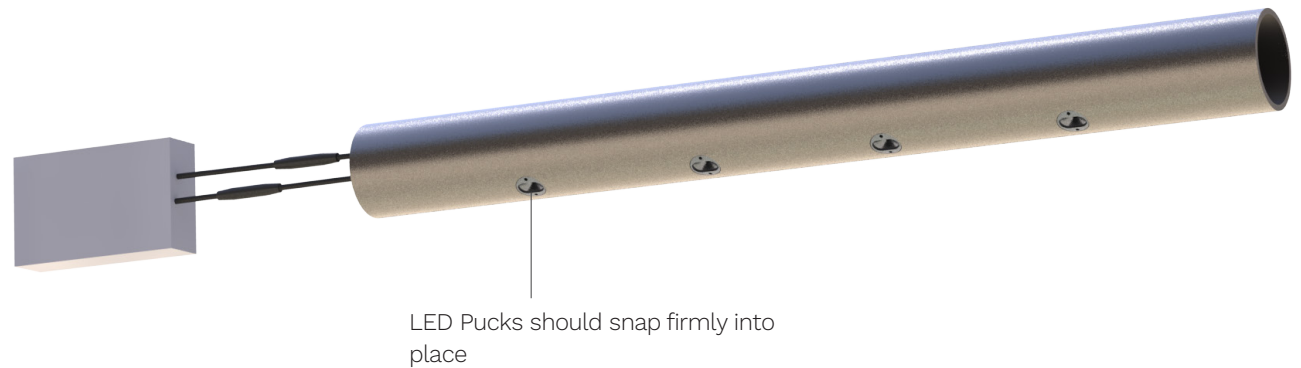
**LED PUCKS WILL OVERHEAT AND MAY CAUSE damage if kept running outside the rail CONTINUOUSLY.**

## 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 / Removal tool to correct alignment, taking note to avoid scratching the lens.



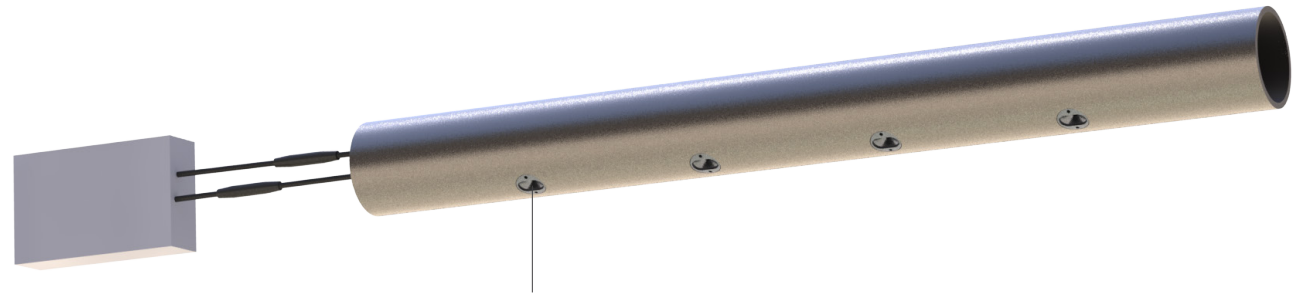


## THETA 750 • SNAP RGBW WIRING GUIDE

## 5. FINAL TEST

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.