

## PARALLEL WIRING

For parallel wiring, we use a 24VDC or 48VDC power supply, using 1.5mm<sup>2</sup> (16AWG) bus wires.

The MegaPucks are connected to the 24VDC bus wires using gel-filled Scotchlok 314 connectors (see Fig. 1).

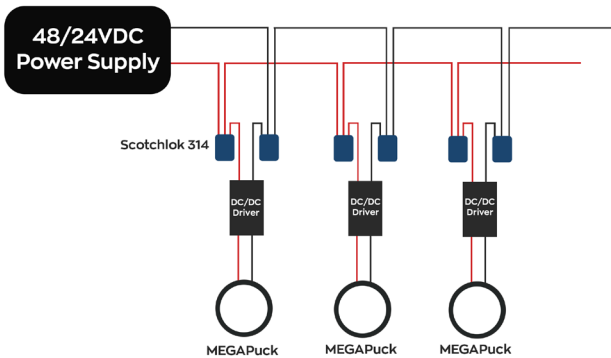


Fig. 1. Parallel Wiring Schematic

Number of MegaPucks in Parallel	Wire Size (mm <sup>2</sup> )	Max Distance (m) between end MegaPuck and LED Driver
20 (700mA 24VDC)	1.5	50
40 (700mA 48VDC)	1.5	100

Table 1. An example number of MegaPucks in parallel with the distance between the end MegaPuck and the driver.

## SERIES WIRING

If dimming is required we recommend series wiring to ensure the smoothest dimming effect.

Using a 700mA or 500mA LED driver (typically TCI Maxi Jolly).

For series wiring solutions we provide gel-filled CoolsplICE connectors pre-fitted to the MegaPucks (see Fig. 2).

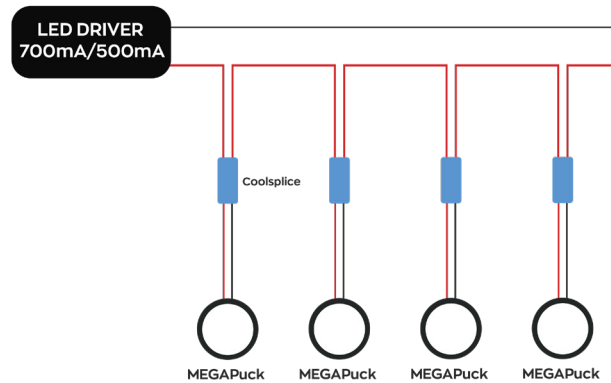


Fig. 2. Series Wiring Schematic

Number of MegaPucks in Series (MAXI Jolly HV)	Wire Size (mm <sup>2</sup> )	Max Distance (m) between end MegaPuck and LED Driver
6 (700mA/8W)	0.75	100
6 (700mA/8W)	1	150
8 (500mA/6W)	0.75	100
8 (500mA/6W)	1	150

Table 2. An example number of MegaPucks in a series with the distance between the end MegaPuck and the driver without any significant voltage drop.

## SERIES – PARALLEL WIRING

There are some occasions where the MegaPuck will need to be wired in series-parallel.

This will most commonly be used for MegaPuck Bollard. Using a 24VDC or 48VDC power supply and 1.5mm<sup>2</sup> (16AWG) bus wires. The MegaPucks are connected to a 700mA - 500mA drivers using CoolsplICE UY2 connectors.

The drivers are connected to the 24VDC/48VDC bus wires using gel-filled Scotchlok 314 connectors (See Fig.3).

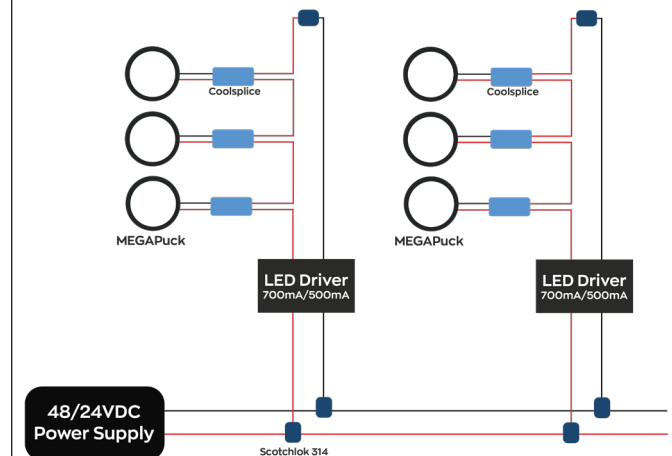


Fig. 3. Series – Parallel Wiring Schematic

## MEGAPUCK LENS ONLY

### Installation Surface

MegaPuck Lens can be installed into any rigid material, 2mm minimum thickness, using the same “snap” action as the Planet LED Puck Snap. If you need to install the MegaPuck Lens into a non-rigid material, such as plasterboard, or a ceiling tile, you will need to use our “Spring mount recessed” accessory.

### Hole Requirements

MegaPuck Lens requires a 30mm hole, which will leave the MegaPuck proud of the surface of the substrate by 1mm. If a perfectly flush finish is required, a 32mm x 1mm counterbore needs to be added to the 30mm hole.

### Power Supply Recommendation:

Typically the power supply is a Meanwell 24-48VDC up to 240W

### Extraction

Extraction requires a special extraction tool that is supplied with every MegaPuck Lens order. The tool engages with the two holes on the front face of the MegaPuck lens and enables the MegaPuck Lens to be eased out of the hole using a back-and-forth action.

## METALLIC VERSUS NON-METALLIC SUBSTRATE

MegaPuck can be run up to 700mA/8W in a metallic substrate, or up to 500mA/6W in a non-metallic substrate.

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# PLANET LED PUCK MEGAPUCK

## Installation and Wiring Quick Guide



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**MegaPuck installation should be carried out by a licensed electrician ONLY.**



**DO NOT undertake installation with driver powered.**