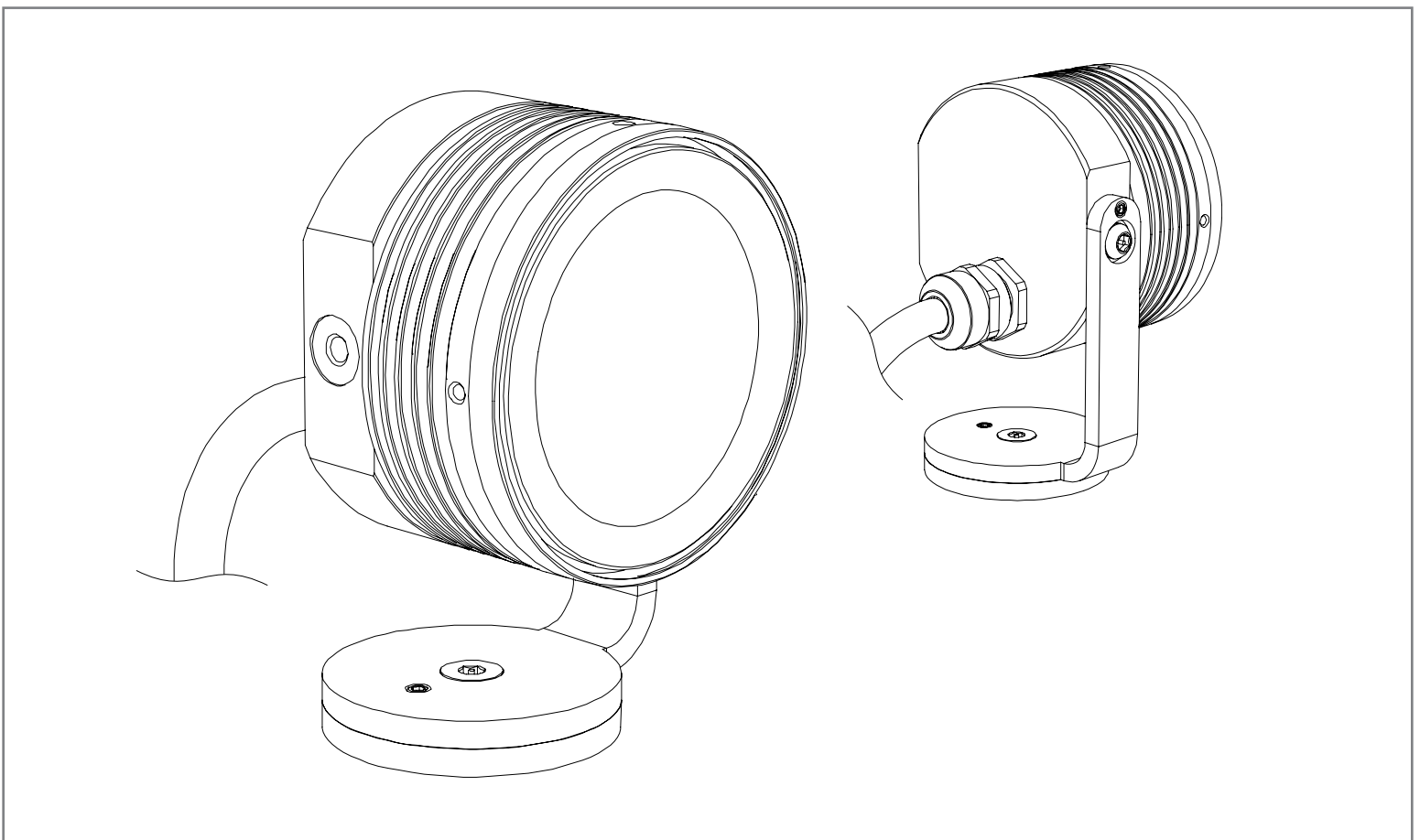


# LIRA™

## Architectural Spot & Flood Light

## INSTALLATION GUIDE



### ⚠ WARNING

Do not attempt to install or use Luminaire(s) until you have read and understand this guide and all safety labels.

Luminaire(s) must be installed by a qualified professional.

Luminaire(s) must be installed in accordance with all national and local electrical and construction regulations.

Ensure that main power supply is OFF before installing or wiring luminaire(s).

Do not exceed specified voltage and current input.

Do not use luminaire(s) with a damaged lens, body, or cable.

Failing to install luminaire(s) according to warnings may result in a hazardous situation which can cause equipment and property damage, personal injury, or death.

### ⚠ CAUTION

Do not exceed the maximum number of specified luminaires in a light run. Doing so will result in a current overload.

GVA Luminaires have no serviceable parts. Do not attempt to open the units.

Do not hot swap. Ensure power supply is off before connecting or disconnecting fixtures.

Do not stare into beam or view directly with optical instruments.

Unauthorized field repairs will void warranty.

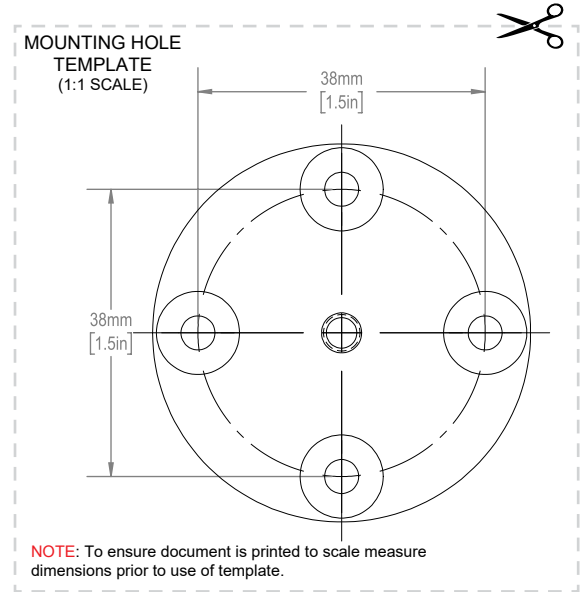
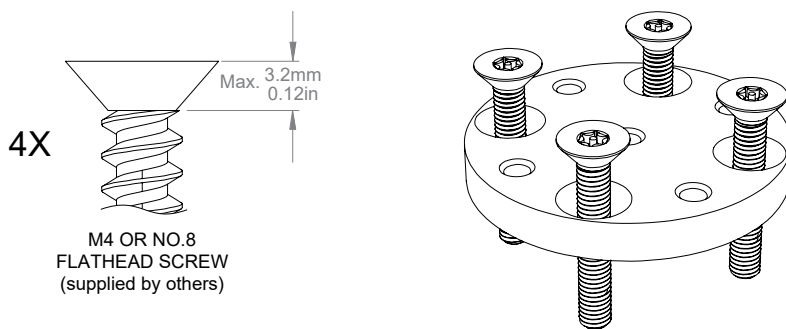
### 1 LUMINAIRE INSTALLATION

#### 1.1 MOUNTING PLATE

**WARNING** Use mounting hardware suitable for the mounting surface. Use of inappropriate hardware may result in dismantling of the plate and can result in equipment damage, personal injury, or death.

Using 4 x M4 or No.8 Flathead Screws (supplied by others) suitable for the mounting surface, install the mounting plate in desired location. See "MOUNTING HOLE TEMPLATE" to mark holes prior to installation, if required.

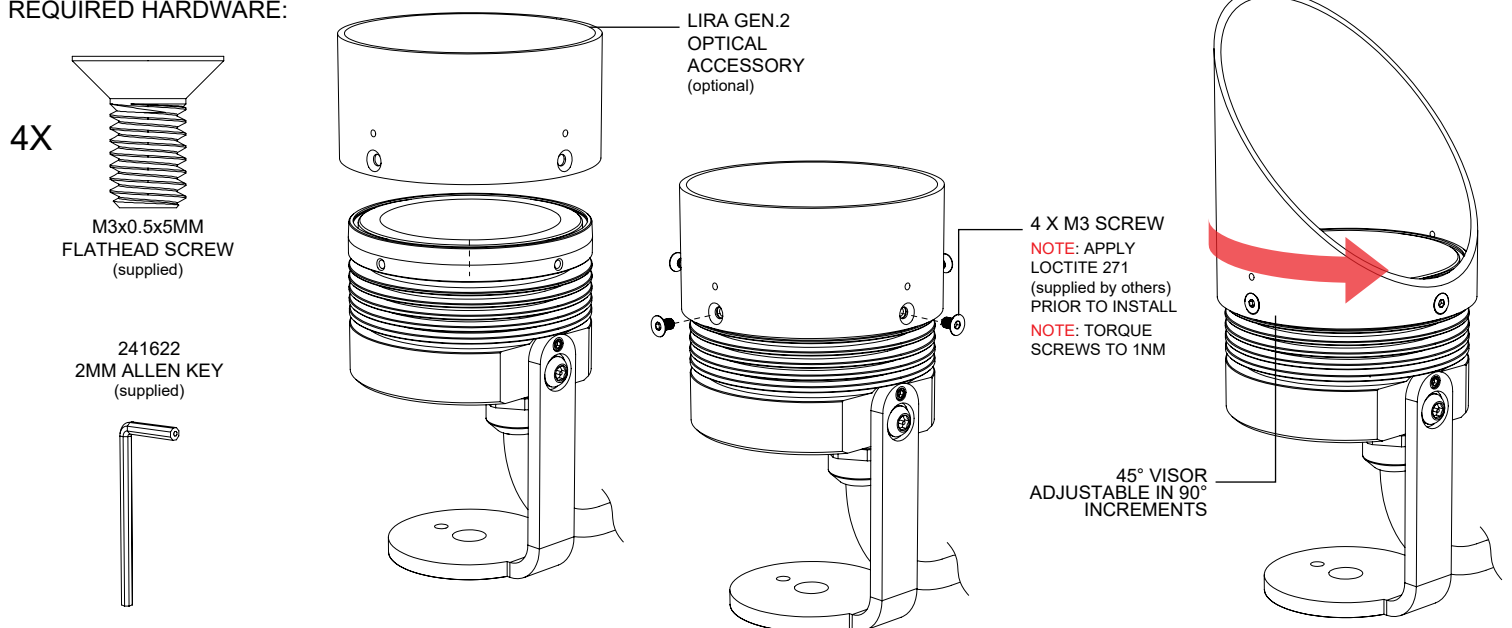
#### REQUIRED HARDWARE:



#### 1.2 OPTICAL ACCESSORY INSTALLATION

Using 4 x M3x0.5x5mm Flathead Screws (supplied), install LIRA optical accessory to luminaire as shown. If not installing LIRA optical accessory skip to Step 1.3.

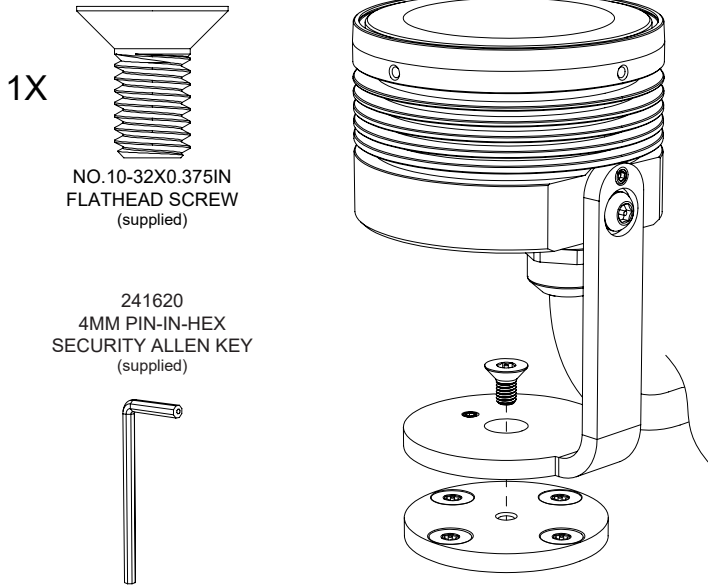
#### REQUIRED HARDWARE:



### 1.3 MOUNTING

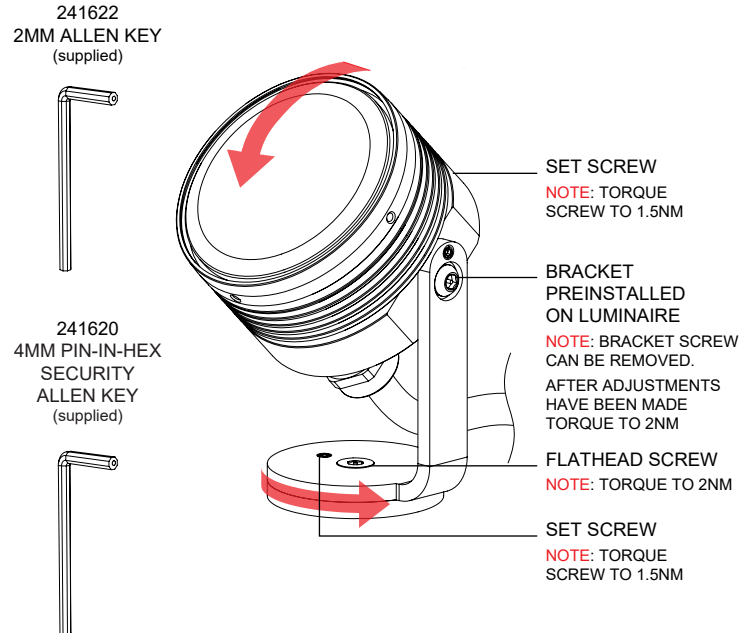
Using the 1 x No.10-32x0.375in Flathead Screw (supplied) and the 4mm Pin-in-Hex Security Allen Key (supplied), fasten the luminaire to the mounting plate.

#### REQUIRED HARDWARE:



### 1.4 ADJUSTMENT

Bracket is preinstalled on luminaire. Rotate luminaire to desired horizontal and vertical orientation. Torque the set screws to 1.5Nm to lock the luminaire in place using 2mm Allen Key (supplied). If required, use 4mm Allen Key (supplied) to remove bracket screw. Ensure bracket screw is torqued to 2Nm after adjustments have been made.



### 2 CONNECTION DIAGRAMS

#### 2.1 TYPICAL SYSTEM DIAGRAM

**WARNING** Ensure power supply is turned OFF before making any connections. Connecting the luminaire while the power is turned ON may result in equipment damage.

Make connections to junction boxes (supplied by others) and to the luminaires.

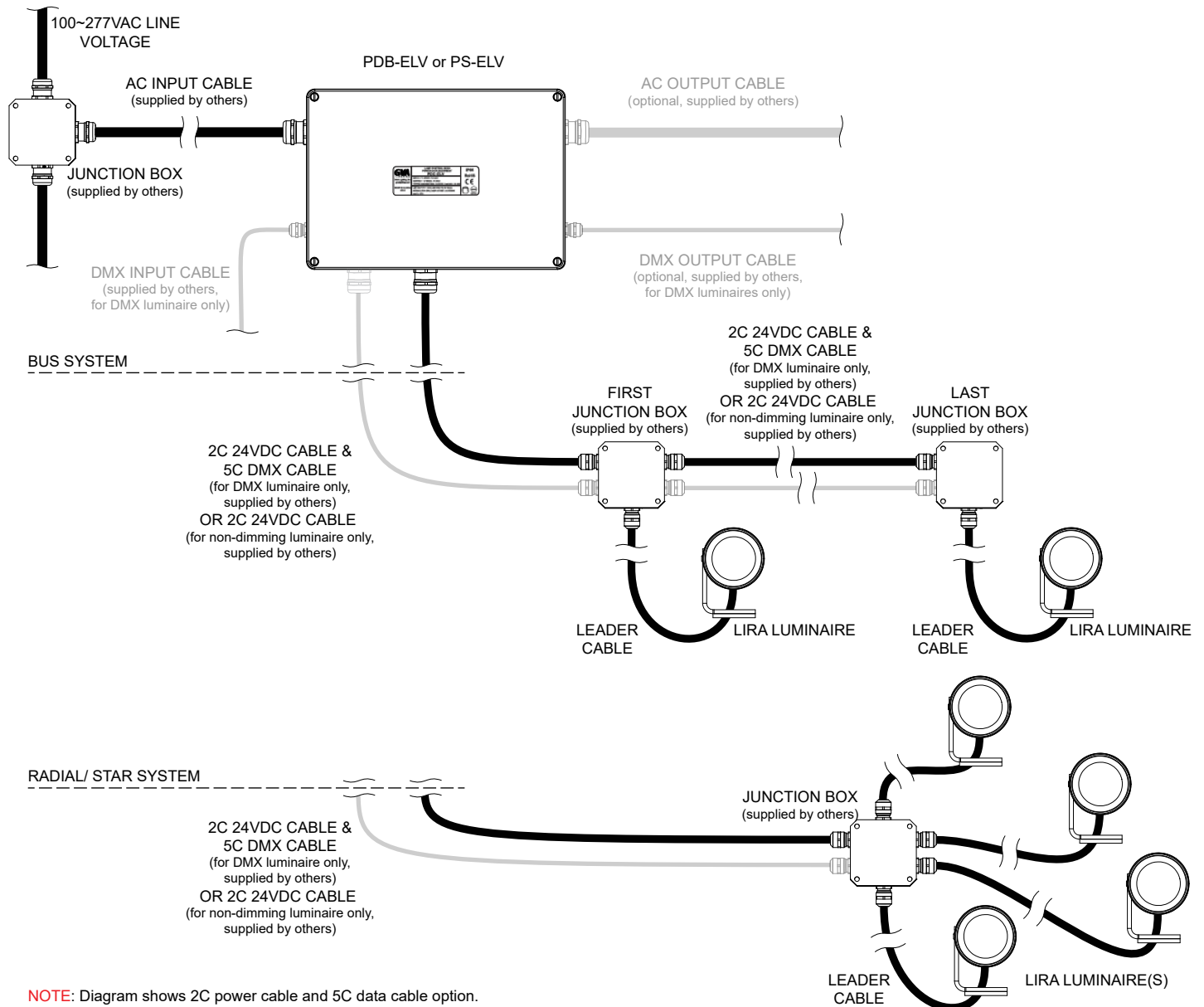
**NOTE:** LIRA luminaire 24VDC power conductors and DMX Common should be connected in parallel.

**NOTE:** DMX I/O must be connected in series.

**NOTE:** Total load shall not exceed power rating of PDB-ELV/PS-ELV and should be under 100W to remain Class 2.

**NOTE:** Follow labels & markings on terminal blocks & cables for correct polarity.

**NOTE:** Luminaire configuration and length of leader/ jumper cables directly affects the maximum number of luminaires allowed in a single run. Minimum working voltage of LIRA luminaire is 18VDC.



**NOTE:** Diagram shows 2C power cable and 5C data cable option. GVA 7C power & data cable available (supplied separately).

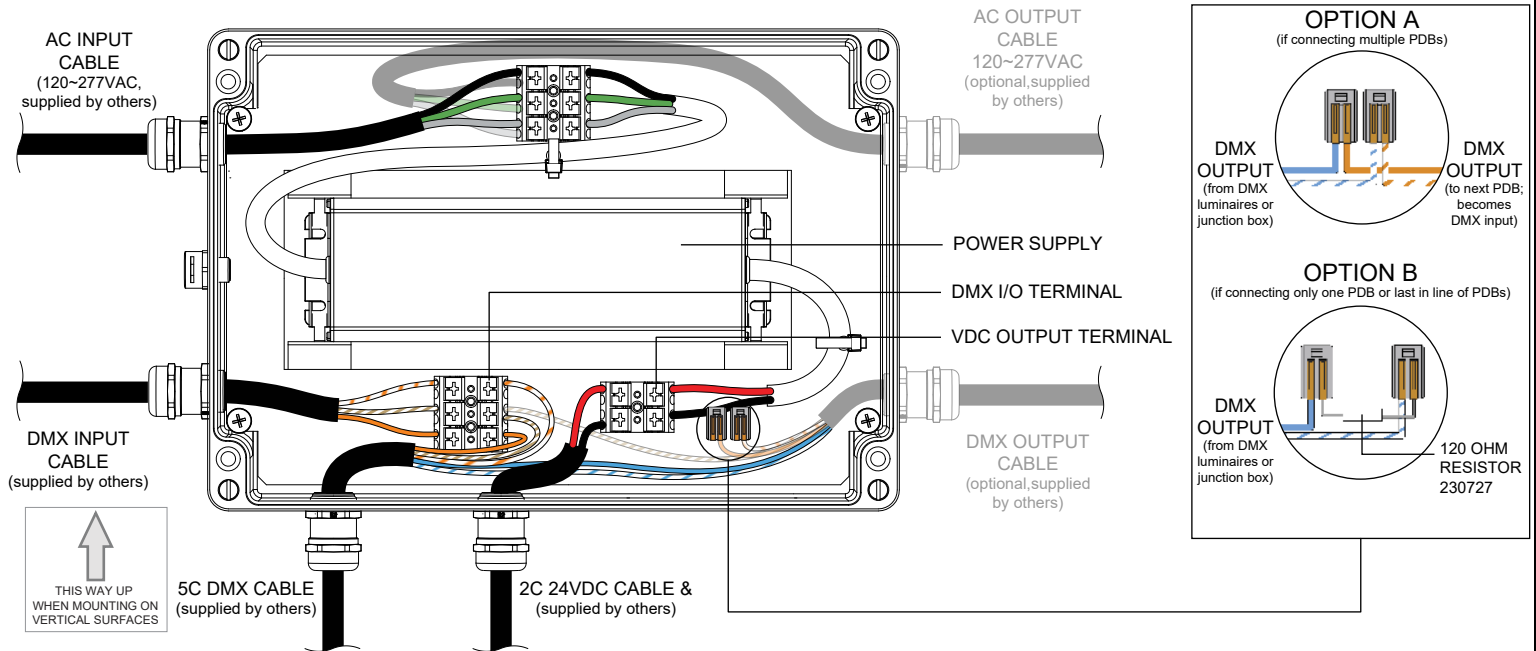
### 2.2 PDB-ELV & PS-ELV WIRING DIAGRAMS

**WARNING** Ensure that AC line voltage is disconnected before making connections to PDB/PS-ELV.

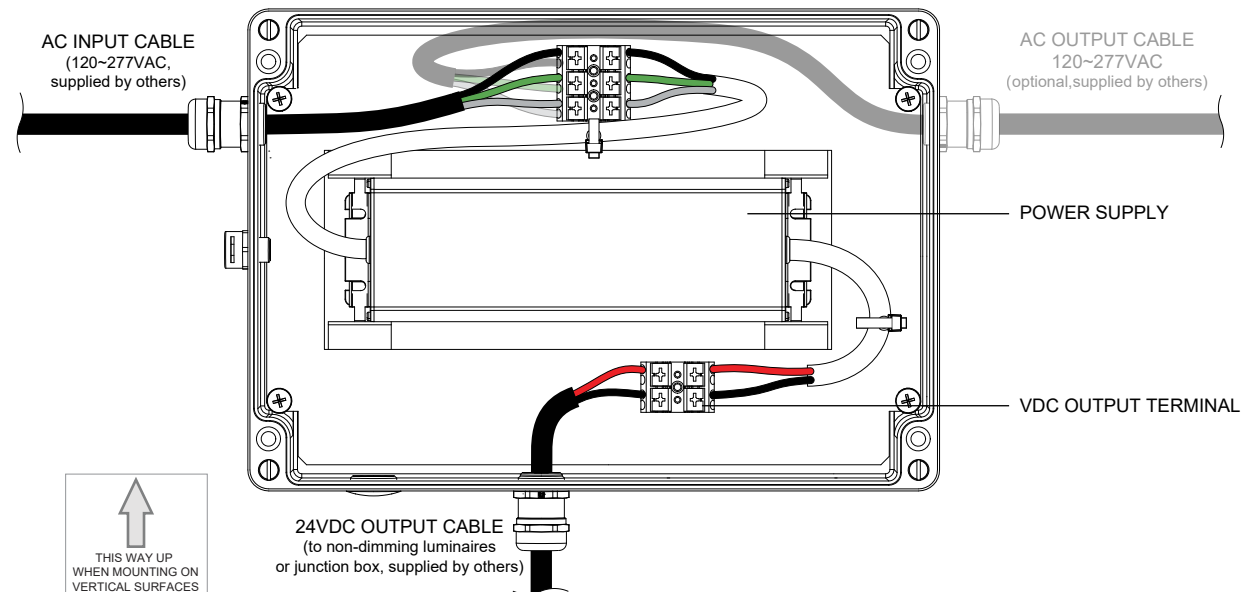
#### 2.2.A PDB-ELV Wiring Diagram

**NOTE:** Terminate return DMX output (+) and (-) with 120 OHM resistor (GVA PN. 230727).

**NOTE:** Diagram shows 2C power cable and 5C data cable option. GVA 7C power and data cable available (supplied separately)



#### 2.2.B PS-ELV Wiring Diagram



Specifications are subject to change without notice. Every effort has been made to ensure that the information provided in this manual is accurate. GVA Lighting Inc. is not responsible for printing or clerical errors. Refer to [www.gvalighting.com](http://www.gvalighting.com) for additional information.

### 2.3 JUNCTION BOX DIAGRAM: DMX

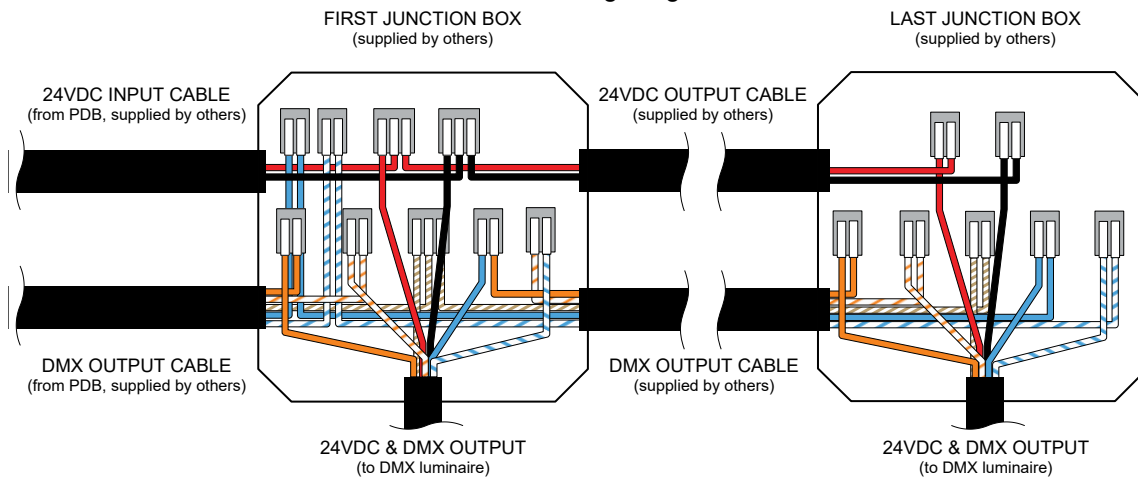
**WARNING** Ensure power supply is turned OFF before making any connections. Connecting the luminaire while the power is turned ON may result in equipment damage.

Connect Class 2, 24VDC output to power conductors of ELV LIRA luminaire : red(+), black(-). Connect DMX I/O to DMX conductors of luminaire.

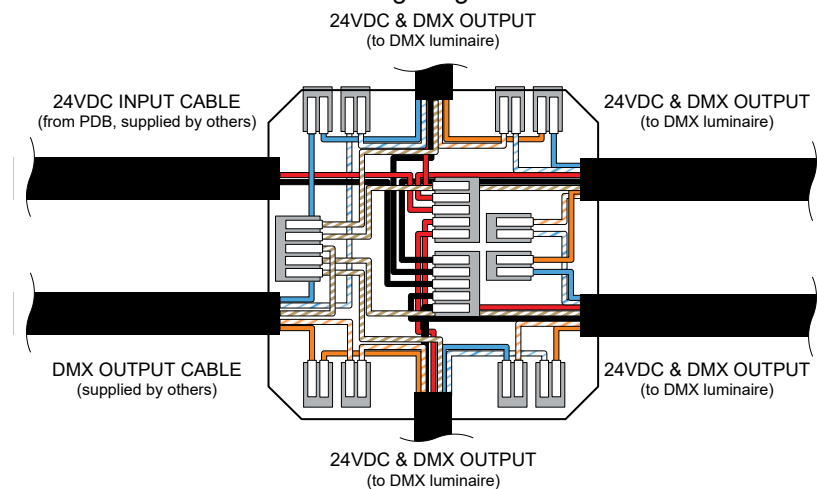
**NOTE:** LIRA luminaires require 24VDC Class 2 power supply. Total load shall not exceed power rating of PDB-ELV/PS-ELV and should be under 100W to remain Class 2. If PSU is other than Class 2, provisions must be made to create Class 2 outputs.

**NOTE:** Diagram shows 2C power cable and 5C data cable option. GVA 7C power and data cable available (supplied separately). See specification sheet for ordering information.

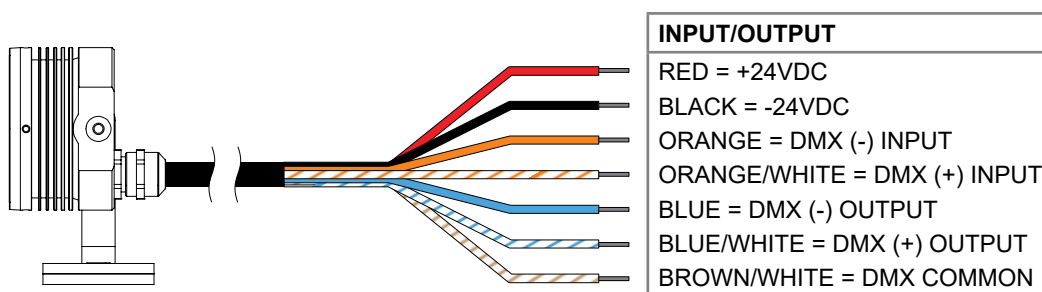
#### 2.3.A Junction Box Wiring Diagram: DMX Bus



#### 2.3.B Junction Box Wiring Diagram: DMX Radial/ Star



#### 2.3.C Luminaire Connections: DMX



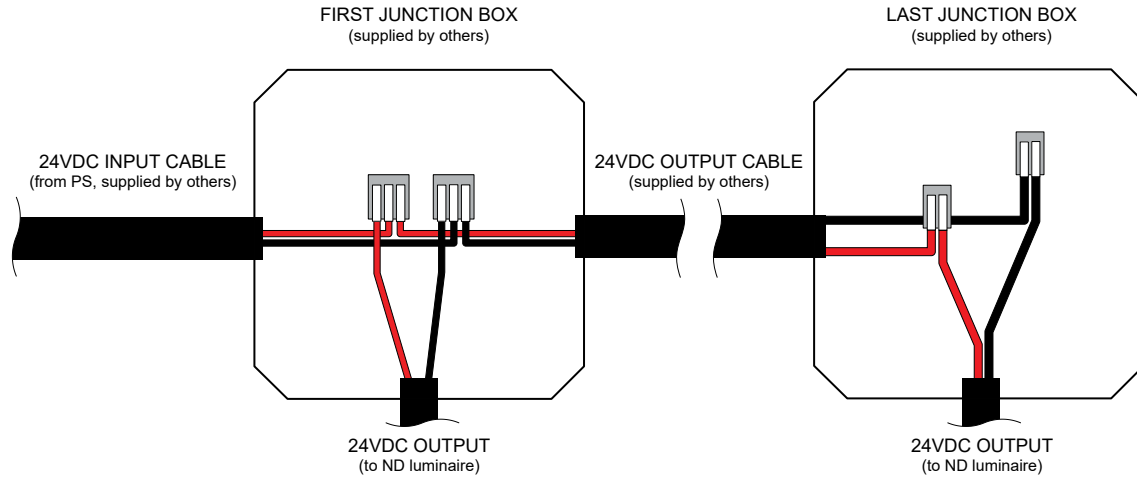
### 2.4 JUNCTION BOX DIAGRAM: NON-DIMMING

**WARNING** Ensure power supply is turned OFF before making any connections. Connecting the luminaire while the power is turned ON may result in equipment damage.

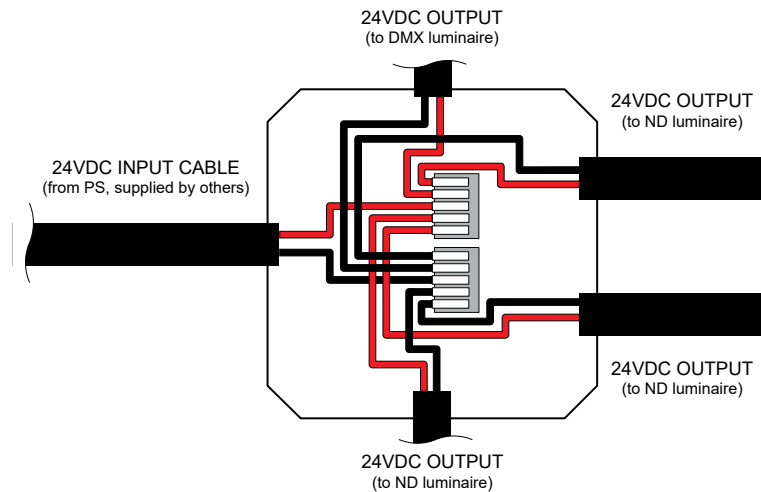
Connect Class 2, 24VDC output to power conductors of ELV LIRA luminaire : red(+), black(-).

**NOTE:** LIRA luminaires require 24VDC Class 2 power supply. Total load shall not exceed power rating of PDB-ELV/PS-ELV and should be under 100W to remain Class 2. If PSU is other than Class 2, provisions must be made to create Class 2 outputs.

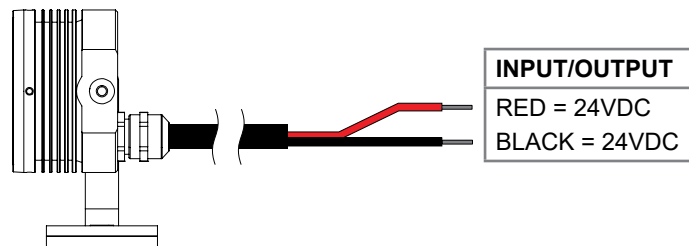
#### 2.4.A Junction Box Wiring Diagram: Non-Dimming Bus



#### 2.4.B Junction Box Wiring Diagram: Non-Dimming Radial/ Star



#### 2.4.C Luminaire Connections: Non-Dimming



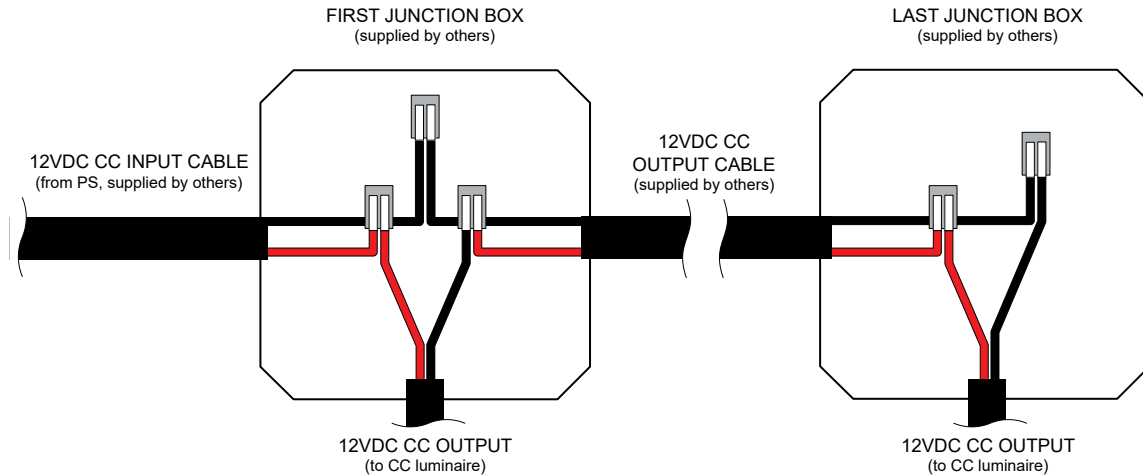
## 2.5 JUNCTION BOX DIAGRAM: CONSTANT CURRENT

**WARNING** Ensure power supply is turned OFF before making any connections. Connecting the luminaire while the power is turned ON may result in equipment damage.

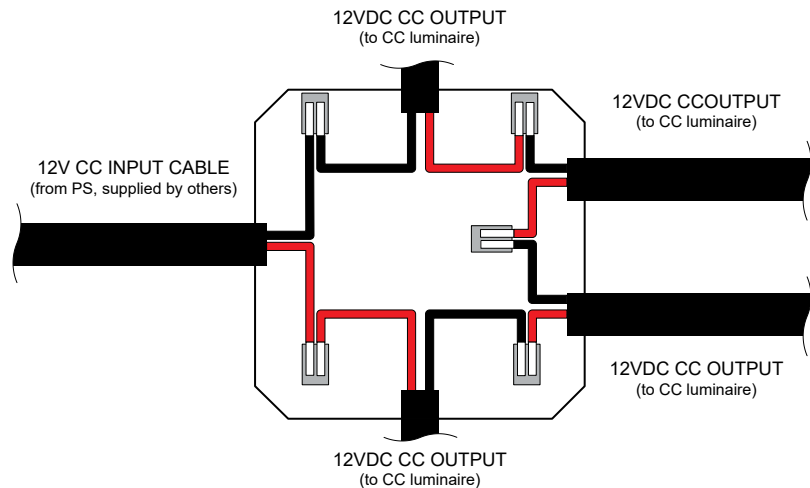
Connect Class 2, 12V Constant Current output to power conductors of LIRA luminaire : red(+), black(-).

**NOTE:** LIRA Constant Current Luminaires require at least 12VDC constant current, maximum 60VDC, Class 2 power supply with Class 2 outputs. If PSU is other than Class 2, provisions must be made to create Class 2 outputs.

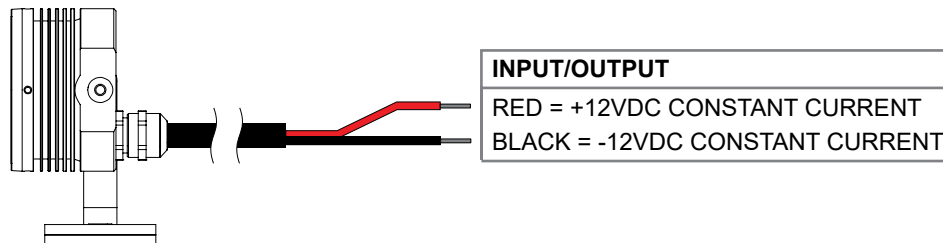
### 2.5.A Junction Box Wiring Diagram: Constant Current Bus



### 2.5.B Junction Box Wiring Diagram: Constant Current Radial/ Star

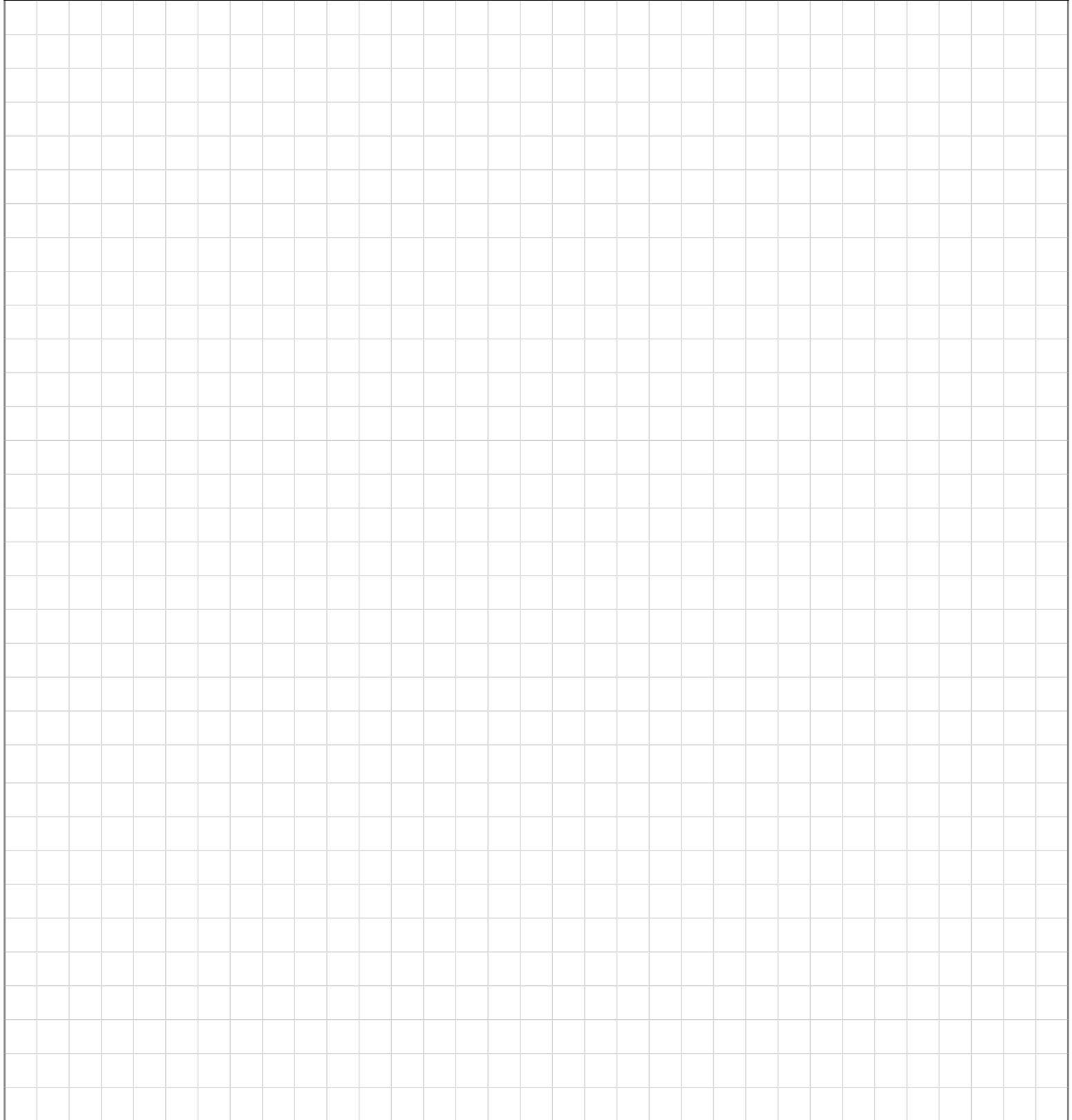


### 2.5.C Luminaire Connections: Constant Current





**NOTES**



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