

**we-ef**



**WE-EF LEUCHTEN**  
Installation and Maintenance  
Instructions

Inground Luminaire  
**ETC310-FS LED**  
**EVC310-FS LED**  
**ETC319-FS LED**  
**EVC319-FS LED**

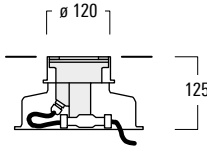
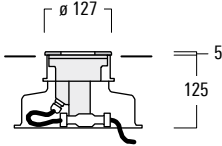


This product is factory-sealed.

**Do not open during installation**

Refer to the instructions contained in this document for details.

Inground Luminaire

<p><b>ETC310/319-FS</b></p> 	<p><b>EVC310/319-FS</b></p> 
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IP67, Class I,  $t_a \leq 25^{\circ}\text{C}$

## **Light Source**

LED

## **Maintenance**

**Warning:** Do not open luminaire while mains supply is switched on.

Apart from cleaning the outside of the luminaire, no special maintenance is necessary.

Damaged mains supply cable: Contact your authorised WE-EF agent for replacement.

## Installation

The product must be installed and maintained by a suitably qualified person in compliance with the latest applicable regulations and relevant legislation.

Ensure the luminaire frame and lens are clear of dirt and debris.

Claims based on defects attributable to improper installation, application, operation and/or any modification carried out by the purchaser or third parties, and the consequences thereof, are excluded.

## Minimum Distance

ETC310-FS, ETC319-FS, EVC310-FS, EVC319-FS:

No minimum distance.

## Installation Methods

**Attention:** The luminaire is factory-sealed and does not need to be opened during installation.

For proper installation, use the supplied installation blockout.

Ensure that proper drainage is provided for the shown installation methods:

In landscape areas, sand with gravel base (Fig. I).

In paved areas, concrete with gravel base (Fig. II).

## Maintenance;

No special maintenance is necessary.

Clean only with a cloth and water

**Do not use high-pressure cleaners.**

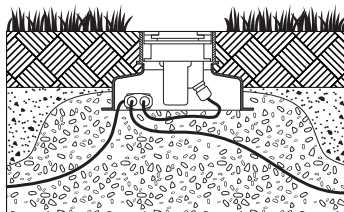


Fig. I

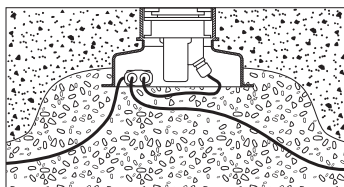


Fig. II

## Phase One

### Blockout Installation Procedure

(during earth or masonry work)

- 1) Ensure a suitable recess is provided to accommodate installation blockout/mounting ring assembly **B/M**.
- 2) Set installation blockout/mounting ring assembly **B/M** in position and ensure that:
  - a) Arrow **R** on mounting ring **M** is pointed towards the object to be illuminated (wall, tree, column).
  - b) Mounting ring **M** is flush with surface **F**. If the floor will be tiled or paved afterwards, leave an appropriate gap.
  - c) Mains supply cable(s) **O** is of sufficient length (250mm) to connect sealable junction box **J** with cable **E** from luminaire.
- 3) During ongoing earth and/or masonry works, do not remove stickers on fixing threadholes **D**. Ensure that installation blockout/mounting ring assembly **B/M** is not damaged and has maintained its original shape.

## Phase Two

### Luminaire Installation and Electrical Connection

- 4) Switch off mains electrical supply.
- 5) Check that rating shown on luminaire label conforms with mains electrical supply.
- 6) Terminate cable **E** (from luminaire) and mains supply cable **O** in sealable junction box **J** (or: two mains supply cables **O**, if through wiring is required). For termination details, refer to separate instruction sheet as provided with junction box.
- 7) Set cables and sealable junction box **J** inside installation blockout/mounting ring assembly **B/M**.
- 8) refer to specific termination instructions supplied with sealable junction box kit.
- 9) Peel-off stickers on fixing thread holes **D**. Loosen countersunk screws **C** (do not turn out). Insert mounting lever **L** between head of countersunk screws **C** and cover lens. Place luminaire housing **A** into installation blockout/mounting ring assembly **B/M** (Fig. IV) while aligning holes **D** on mounting ring **M**.

**Warning:** When luminaire is placed inside installation blockout **B**, ensure there is no stress on sealable junction box **J** or electric cables (Fig. III).

- 10) Tighten countersunk screws **C** 'hand-tight'.

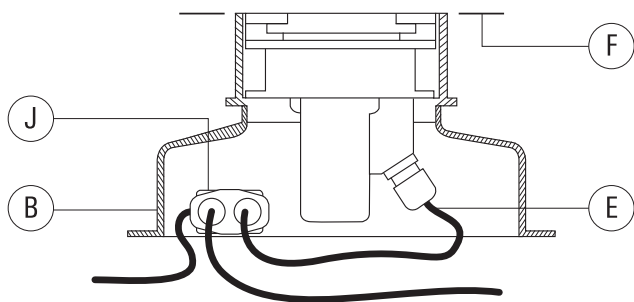
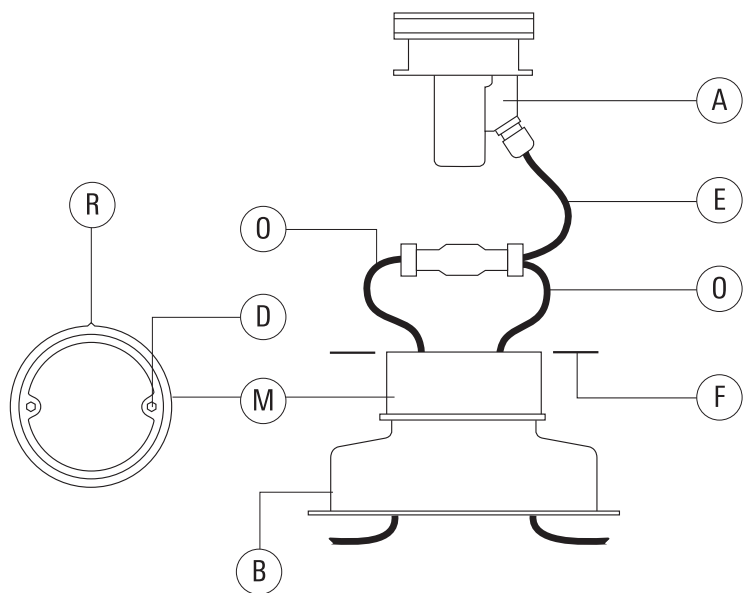


Fig. III

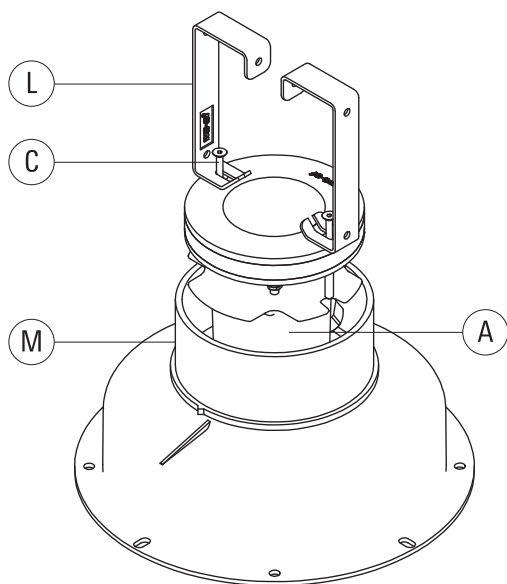


Fig. IV

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Technical specifications are  
subject to change.



**WE-EF LIGHTING**

Installation and Maintenance

Instructions

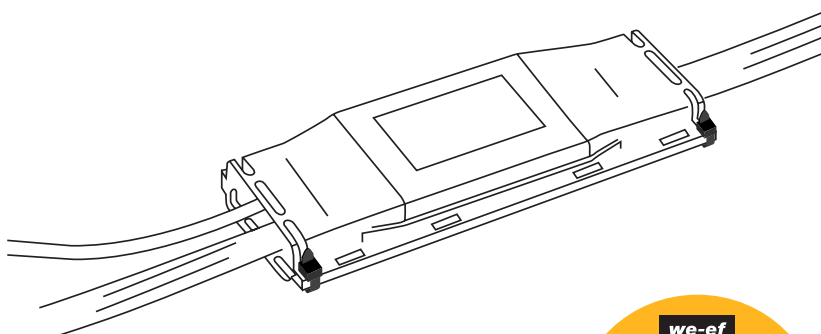
GEL JUNCTION BOX, c/w 6 mm T/B

**185-1624**

These instructions cover wiring of luminaires for different lighting control systems:

- 1) Wiring instructions for ON/OFF, 1-10V or DALI luminaires
- 2) Wiring instructions for DMX luminaires

see page 2  
see page 7



Watch a step-by-step  
installation guide for the IP68  
gel junction box, using the QR  
code. Or here is a short link:  
<https://bit.ly/3y7dHCs>



## **Installation**

This instruction sheet is specific to underground standard cable connections for inground up-lights supplied by WE-EF complete with pre-installation blockout. This product is designed for single use only.

It is also specific to a maximum of two x 5 core (1.5 mm<sup>2</sup> to 4 mm<sup>2</sup>) circular or flat TPS. Installations using larger and/or alternate cables are not covered by this instruction sheet, please refer to your supplier for approved instruction information.

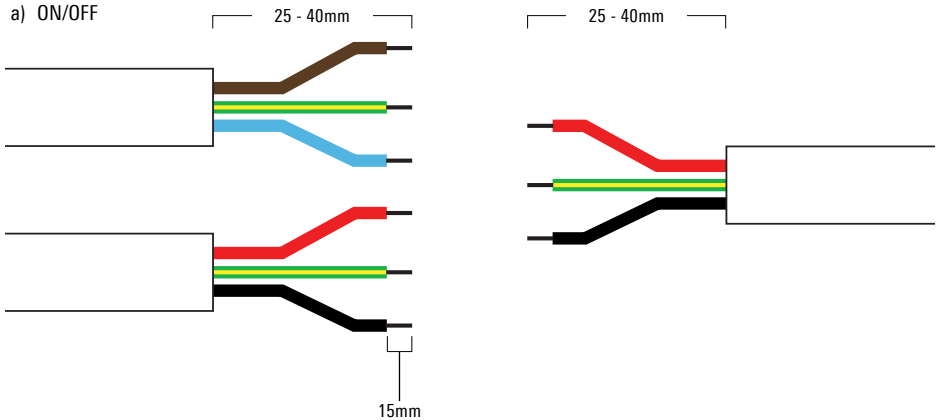
The product must be installed and maintained by a suitably qualified professional in compliance with latest building/construction and/or electrical regulations and relevant legislation.

The installation on site must comply with local and/or national health and safety instructions.

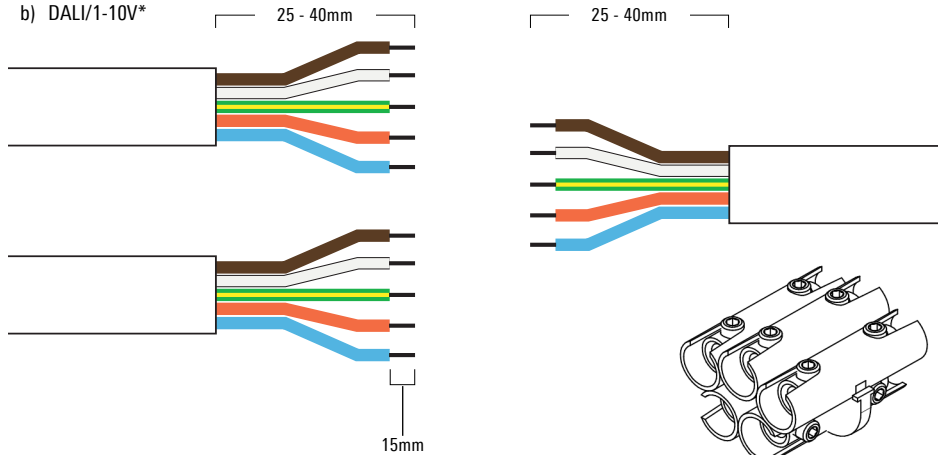
Installation Procedure - ON/OFF, 1-10V or DALI luminaires

1) Prepare cables

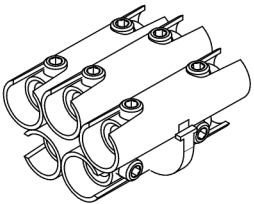
a) ON/OFF



b) DALI/1-10V\*



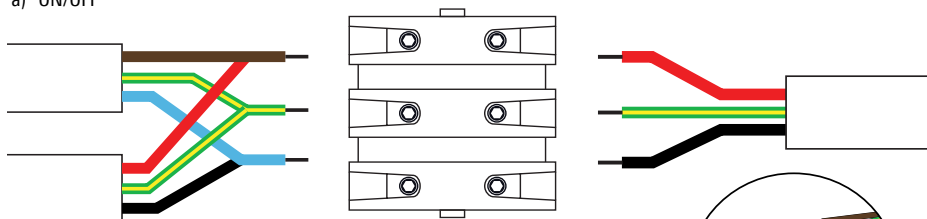
\*Confirm suitability of 1-10V connections as shown



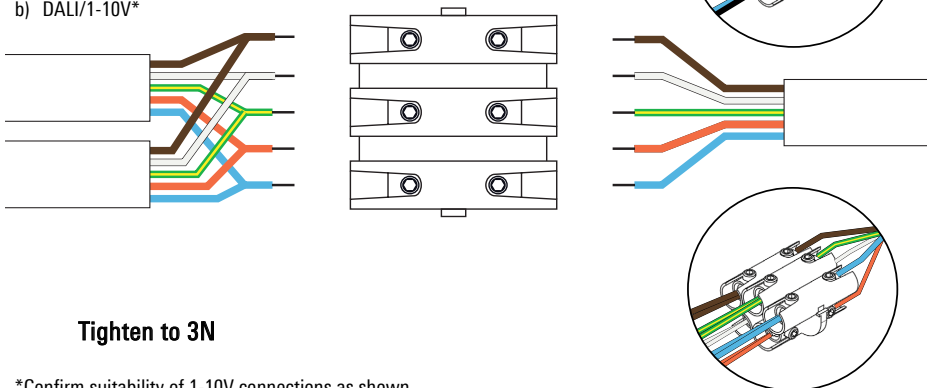
As supplied with fixture

## 2) Secure wires within terminal block with hex key supplied

### a) ON/OFF



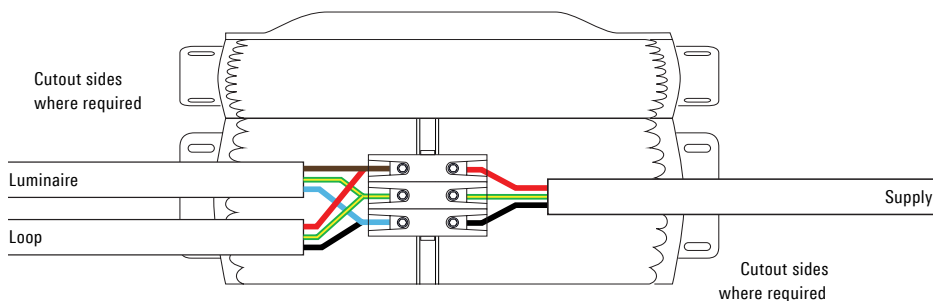
### b) DALI/1-10V\*



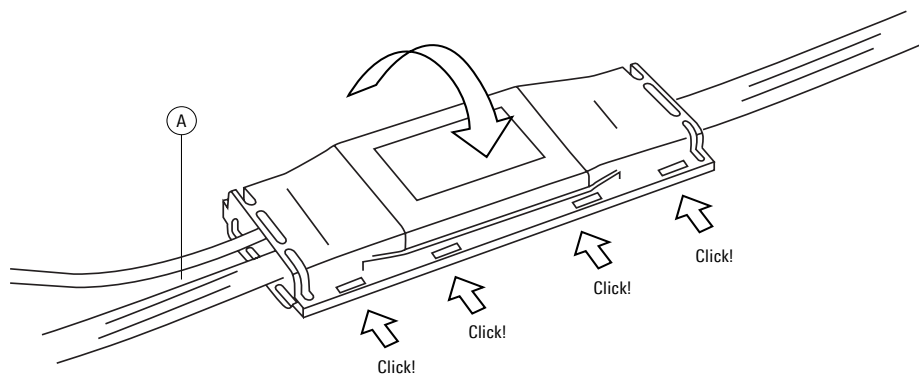
**Tighten to 3N**

\*Confirm suitability of 1-10V connections as shown

## 3) Placement inside junction box

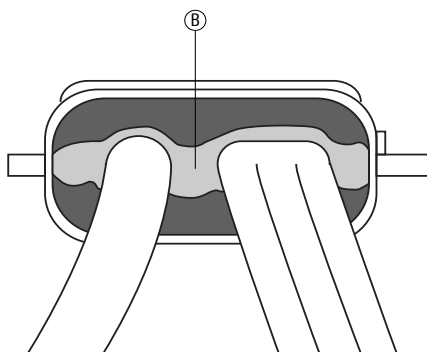


4) Click closed the junction box



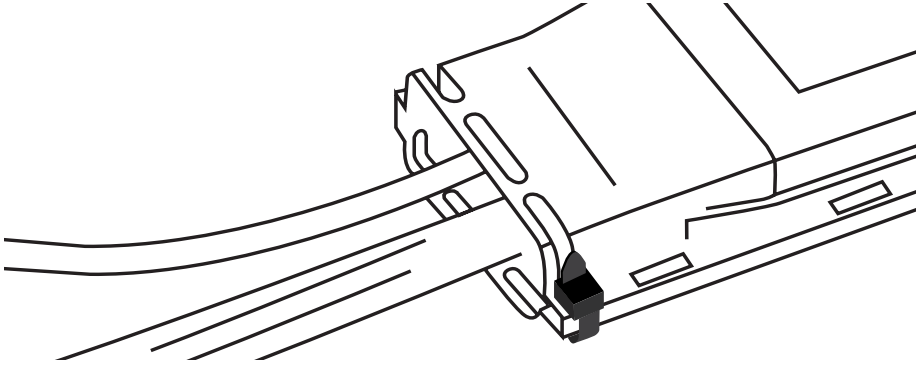
\* Separate **A** – Do not lay cables on top of each other

5) Ensure gel dispersion

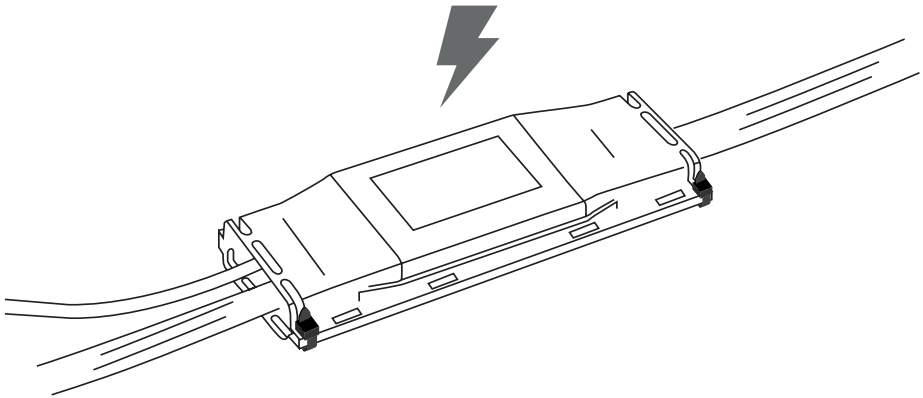


\*\* **B** – Be sure to have gel dispersion between cables

6) Cable ties are for locking case at end



7) Power up

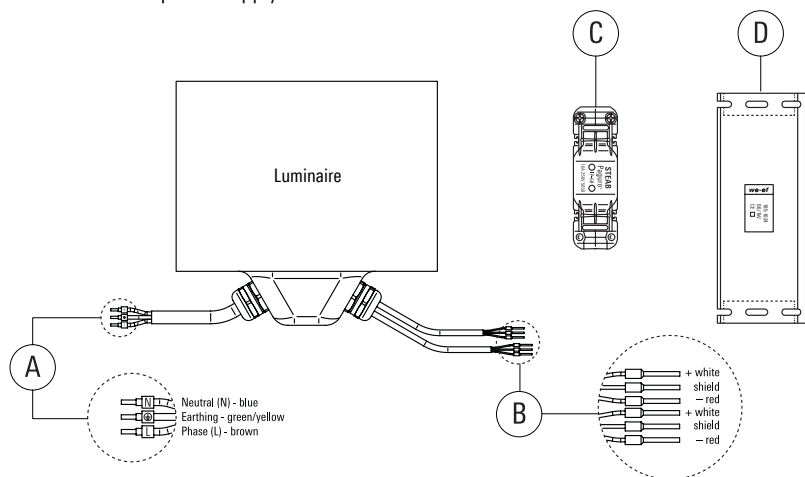


## Installation Procedure - DMX luminaires

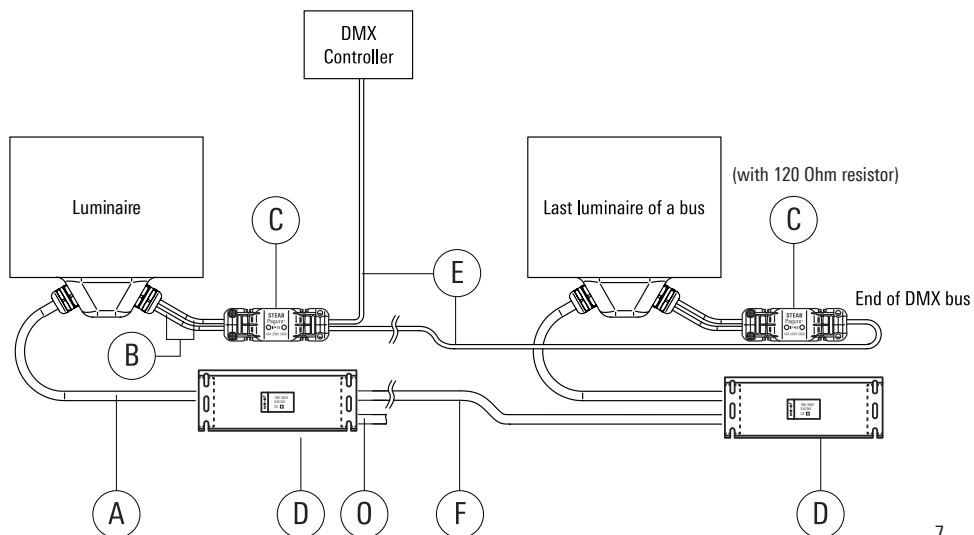
1) Scope of supply.

(illustrations are exemplary)

- A:** Power supply cable  
**B:** DMX data cable  
**C:** Junction box for DMX data cables  
**D:** Junction box for power supply cable

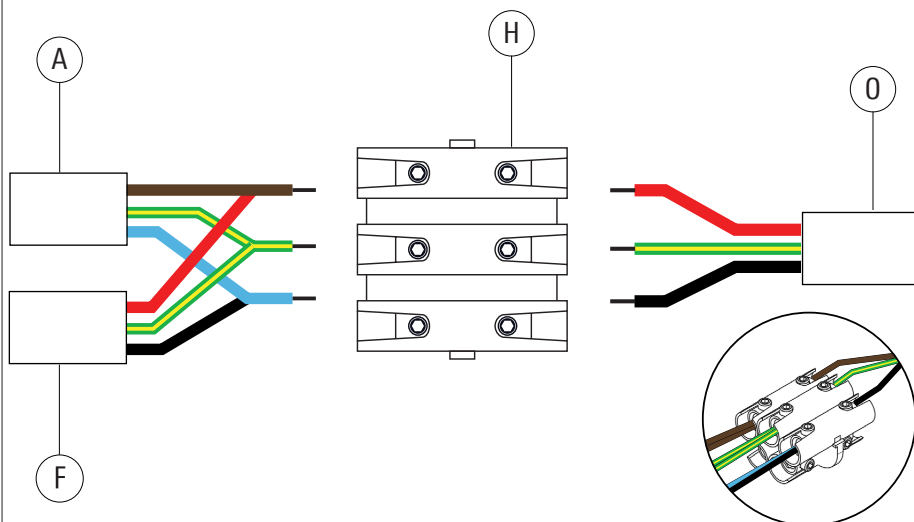


## 2) Overview.

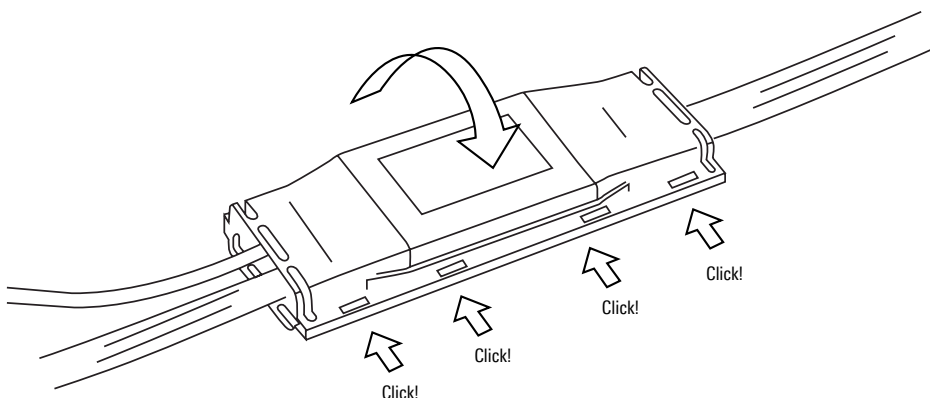


- 3) Connect luminaire's power supply cable **A** and main supply cable **O** (and second cable **F** for through wiring) to terminal block **H** within junction box **D**: L = Phase, N = Neutral,  $\oplus$  = Earthing.

**Attention:** Refer to additional information packed with junction box **D** (shown wiring is exemplary only).

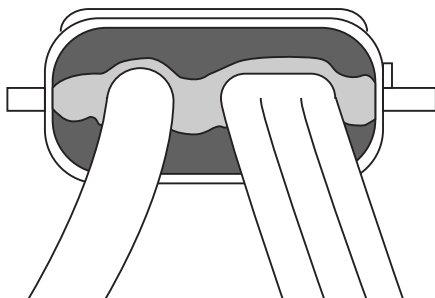


- 4) Click closed the junction box, ensure cables do not lay on top of each other

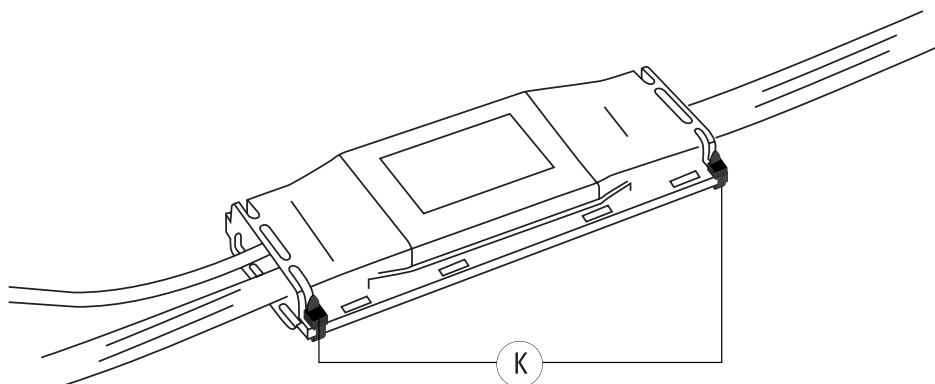




5) Ensure gel dispersion, and that individual insulation of cable cores is totally enclosed in the gel.

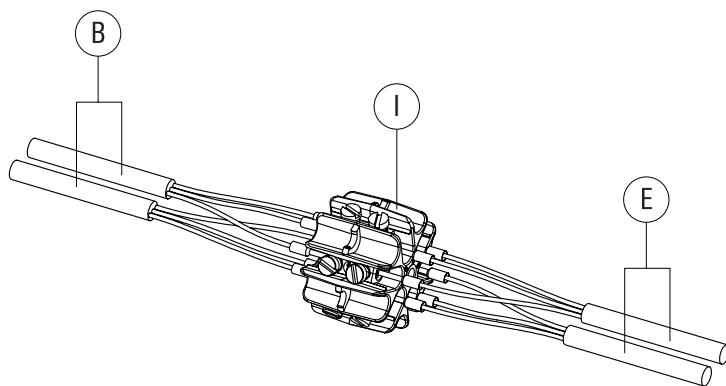


6) Tie the ends of the case closed with cable ties **K**

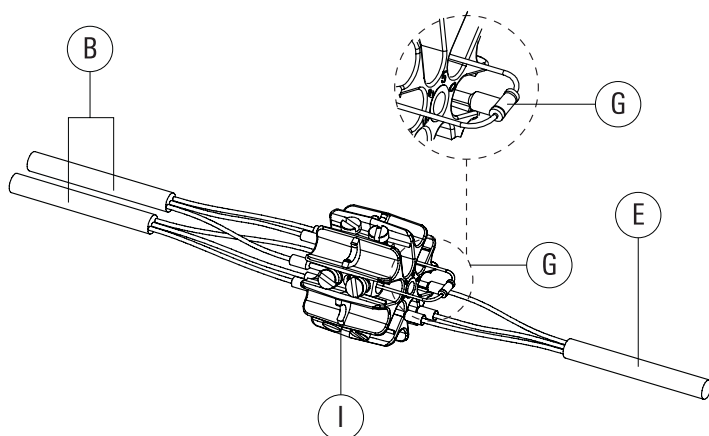


- 7) Connect luminaire's DMX data cables **B** and external DMX cables **E** to terminal block **I** within junction box **C**: White = DMX+, Red = DMX-, Shield. Use cord-end terminals for DMX wires.

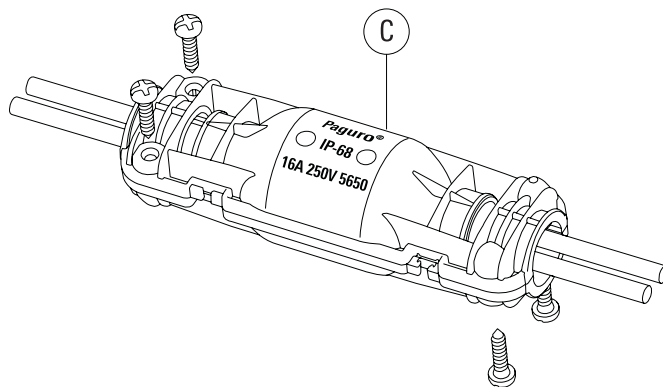
**Attention:** Refer to additional information packed with junction box **C** (shown wiring is exemplary only).



- 8) At the end of each DMX bus: DMX must be terminated by connecting 120 ohm resistor **G** (placed on each junction box **C** by adhesive type) between DMX+ and DMX- on terminal block **I** in junction box **C**.



- 9) Ensure cables do not cross and that cable sheaths are contained with gel.  
Tighten 4 screws.



- 10) Test electrical system before burying cables.

# Drainage

- 1) Ensure that proper drainage is provided for the shown installation methods:
  - a) In landscape/paved areas, sand or concrete with gravel base (Fig. I).
  - b) With fully concreted installation, drainage piping must be provided (Fig. II).

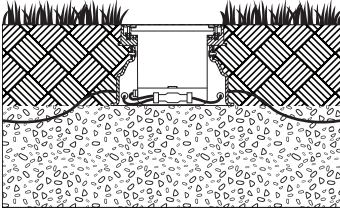


Fig. I

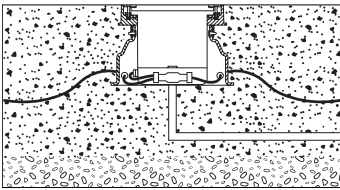
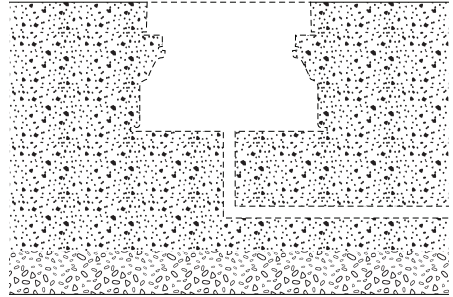


Fig. II

- 2) Ensure a suitable recess.



- 3) Test drainage (ensure water drains within 30 mins, **Warning:** warranty void if luminaire installed without appropriate drainage)

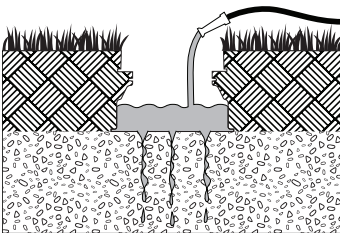


Fig. I

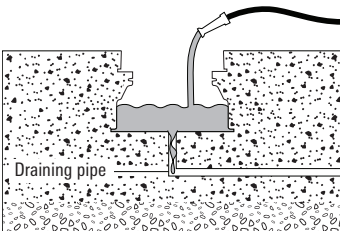
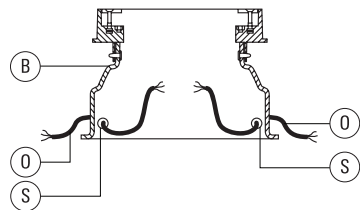


Fig. II

- 4) Select appropriate installation breakout holes **S** for mains supply cable(s) **O** and data cable(s) if necessary.



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