INTERRA INSTALLATION INSTRUCTIONS

PART 1
Installing the Blockout

PART 2
Installing the Luminaire

⚠ ATTENTION

- Please observe / follow the instructions methodically.

- Please ensure the units are handled with extreme care.

- Do not remove LED strips from packaging prematurely. Only remove from packaging when ready for installation.

- Failure to observe installation instructions and handling will void warranty of the product.

A Terminating end lock   **D** Blockout

B Luminaire   **E** Power supply

C Temporary timber insert   **F** CTR-RDM PIXEL-IPQC (for Interra Pixel Only)

CARE INSTRUCTIONS

✔ **ONLY USE** the following cleaning agents to wash the face of the Interra luminaire:

- Alcohol (under 30%)
- Soap solution
- Soda solution
- Ammonia, aqueous solution
- Hydrogen peroxide (under 20%)

✘ **DO NOT** use any of the following cleaning agents on the Interra Luminaire:

- Alcohol (absolute)
- Carbon tetrachloride
- Methylated spirits
- Paraffin
- Perchloroethylene
- Petrol mixture (containing benzine)
- Solvent stain removers
- Trichloroethylene
- Turpentine
- Turpentine substitute

✘ **DO NOT** use the following chemicals near the Interra Luminaire:

- Carbon acid (disinfectant)
- Hydrogen peroxide (over 20% - disinfectant)
- Surgical spirit (disinfectant)
- Tincture of iodine (5% - disinfectant)
- Nitrocellulose (paint)
- Thinners, (general - paint)
- Bituminous emulsion (building materials and protective agents for buildings)
- Hot bitumen (building materials and protective agents for buildings)
- Aqueous solutions of pesticides
- Nail polish
- Nail polish remover
- Calcium chloride cleaning agents
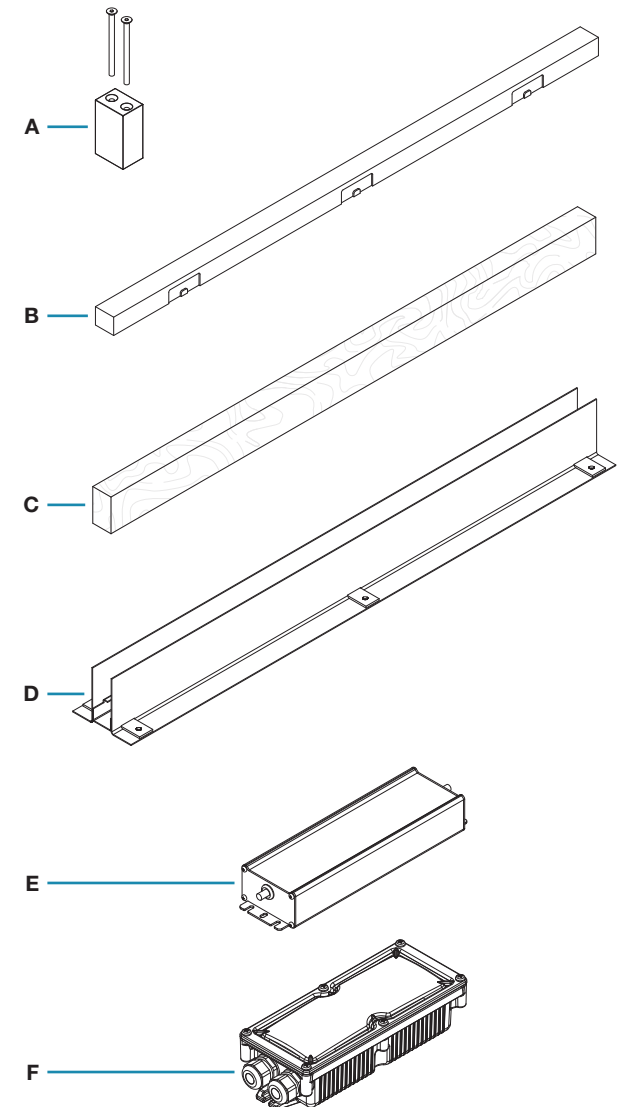- Sodium hypochlorite

APPLICATIONS

✔ Interrra luminaire is suitable for use in applications that include:
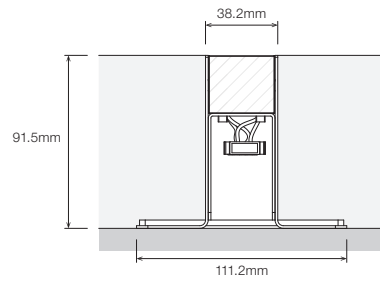
- Prolonged exposure to sea water

✘ **DO NOT** use Interra luminaire in applications that include:

- Any exposure to chlorine liquid
- Prolonged exposure to chlorine water

A

B

C

D

E

F

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DIMENSIONS

38.2mm

91.5mm

111.2mm

BLOCKOUT
Stainless Steel 316

LUMINAIRE
PMMA

TERMINATING END LOCK
Stainless Steel 316

WIRING OPTIONS

4 Pin Male Connector · Outdoor

4 Pin Female Connector · Outdoor

WIRING COLOUR CODE

Yellow	Negative / Ground
Orange	Negative / Ground
Red	Positive / +42VDC
Brown	Positive / +42VDC

3 Pin Data Male Connector · Outdoor

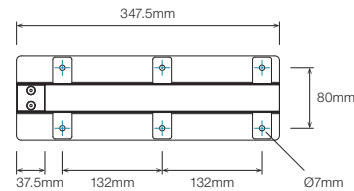3 Pin Data Female Connector · Outdoor

WIRING COLOUR CODE

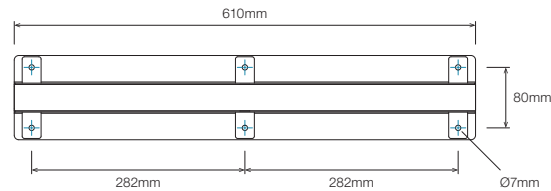| Red	Data +
White	Data -
Black	Ground

INTERRA S1
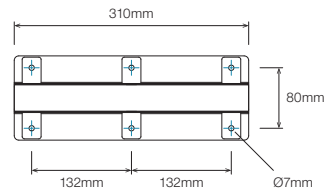
310mm

80mm

132mm   132mm   Ø7mm

INTERRA S1B · End Piece

347.5mm

80mm

37.5mm   132mm   132mm   Ø7mm

INTERRA S2

610mm

80mm

282mm   282mm   Ø7mm

INTERRA S2B · End Piece

647.5mm

80mm

37.5mm   282mm   282mm   Ø7mm

INTERRA S3

910mm

80mm

432mm   432mm   Ø7mm

INTERRA S3B · End Piece

947.5mm

80mm

37.5mm   432mm   432mm   Ø7mm

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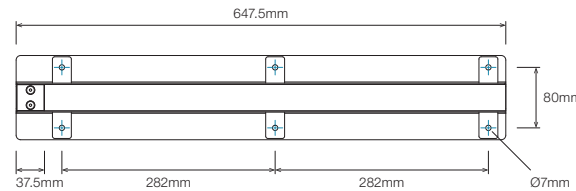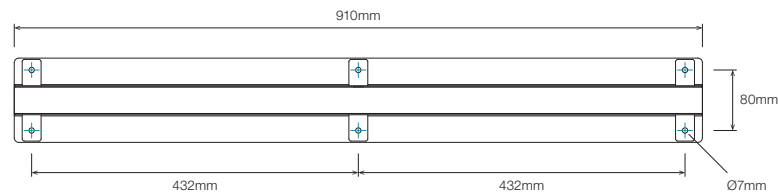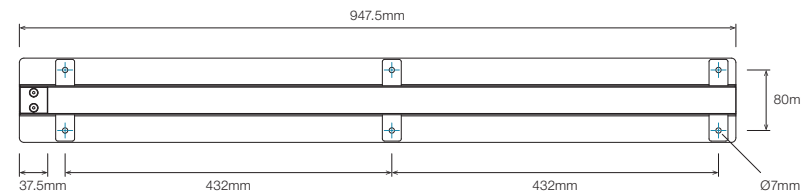
▪ STEP 1　　　PREPARE THE GROUND

The installation may include soft or hard ground preparation or a combination of both.

In all scenarios, ensure proper drainage is provided.

For soft ground application - adequate drainage material should be provided along the entire length of the "blockout" or run/length of luminaires.
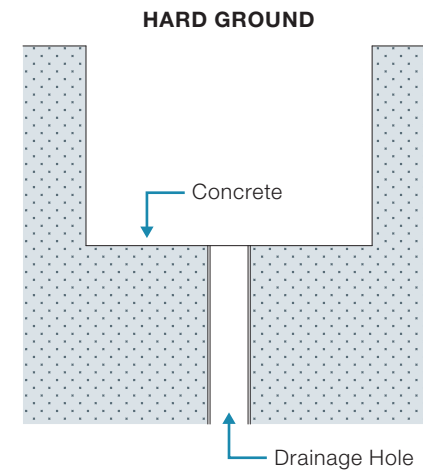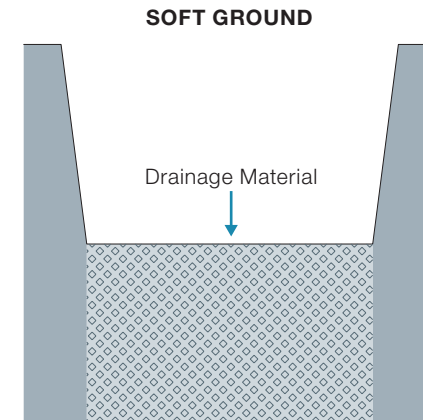
Drainage material can be:

Sand　　　Pea gravel　　　Drainage gravel

For hard ground application – adequate drainage must be provided for each "blockout" length or run/length of luminaires. Ensure that drainage is at the lowest point.

Draining pipes must be used along the lengths of the "blockout".

Provide natural water drainage by allowing water to flow to a lower elevation, away from site.

SOFT GROUND

Drainage Material

HARD GROUND

Concrete

Drainage Hole

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▪ STEP 2   PLACE BLOCKOUT IN SITU

Before you begin installation, ensure that you understand the fitting layout required as supplied fitting lengths may vary.
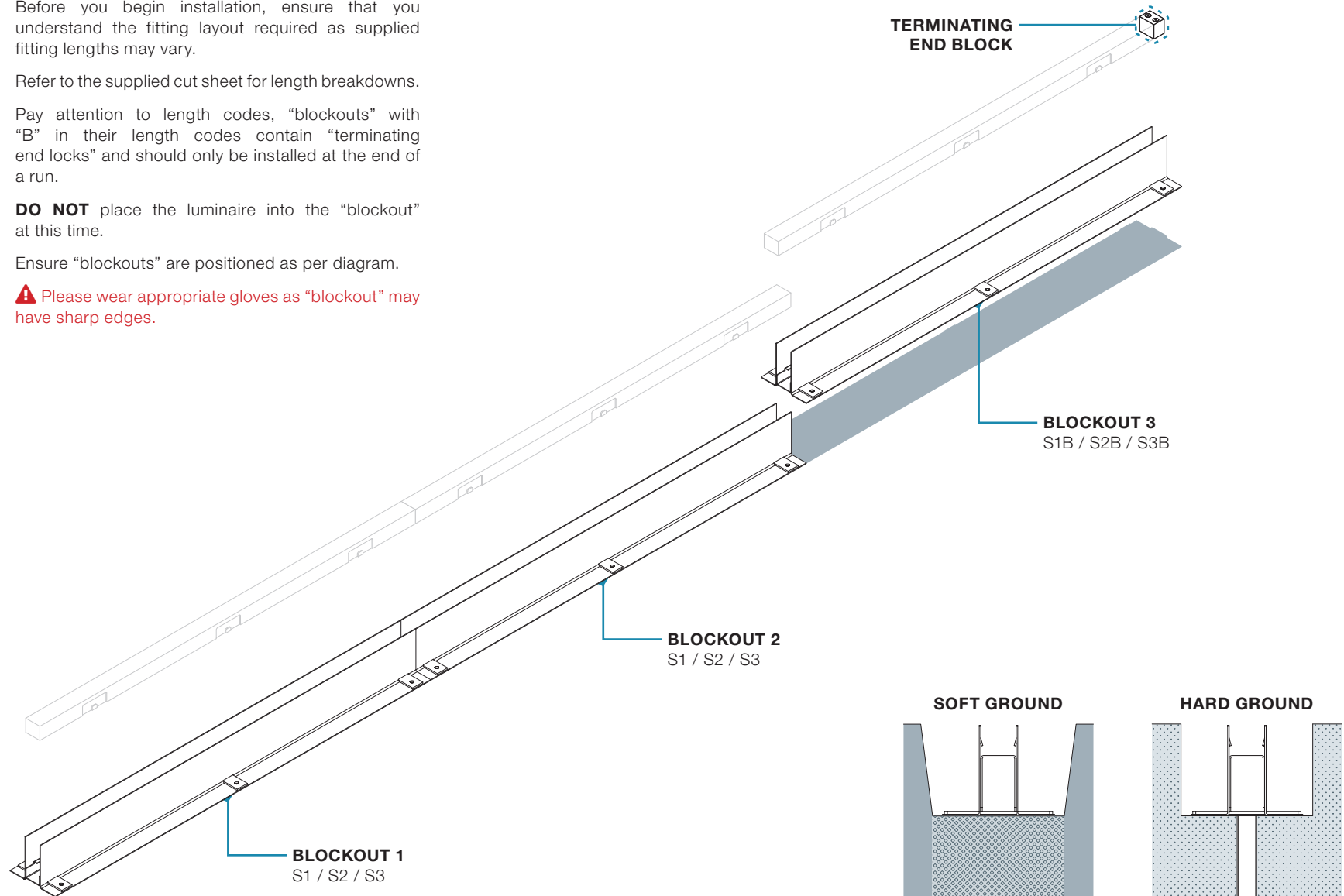
Refer to the supplied cut sheet for length breakdowns.

Pay attention to length codes, "blockouts" with "B" in their length codes contain "terminating end locks" and should only be installed at the end of a run.

DO NOT place the luminaire into the "blockout" at this time.

Ensure "blockouts" are positioned as per diagram.

⚠ Please wear appropriate gloves as "blockout" may have sharp edges.

TERMINATING END BLOCK

BLOCKOUT 3
S1B / S2B / S3B

BLOCKOUT 2
S1 / S2 / S3

BLOCKOUT 1
S1 / S2 / S3

SOFT GROUND   **HARD GROUND**

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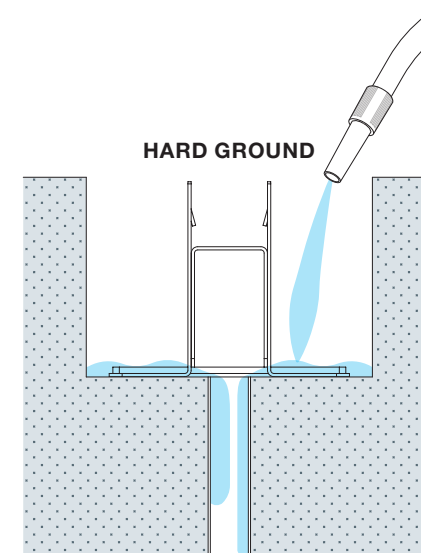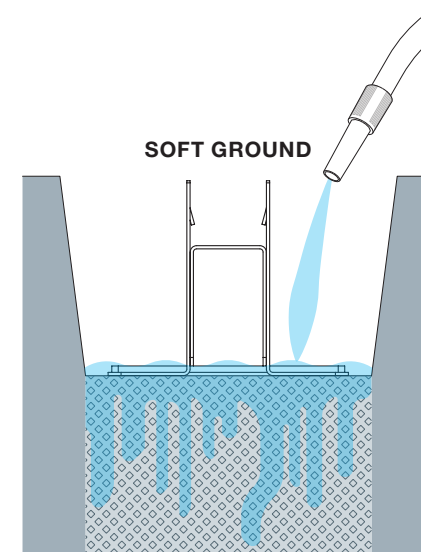Version 1.5b

▪ STEP 3   TEST DRAINAGE

Test drainage by using a hose or bucket of water.

Ensure the water drains effectively and quickly within the "blockout".

Ensure the water propagates through the soft ground drainage.

Ensure the water drains quickly with hard ground installations.

⚠ Failure to provide adequate drainage during installation will void warranty.

SOFT GROUND

HARD GROUND

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▪ STEP 4   INSTALL CABLING

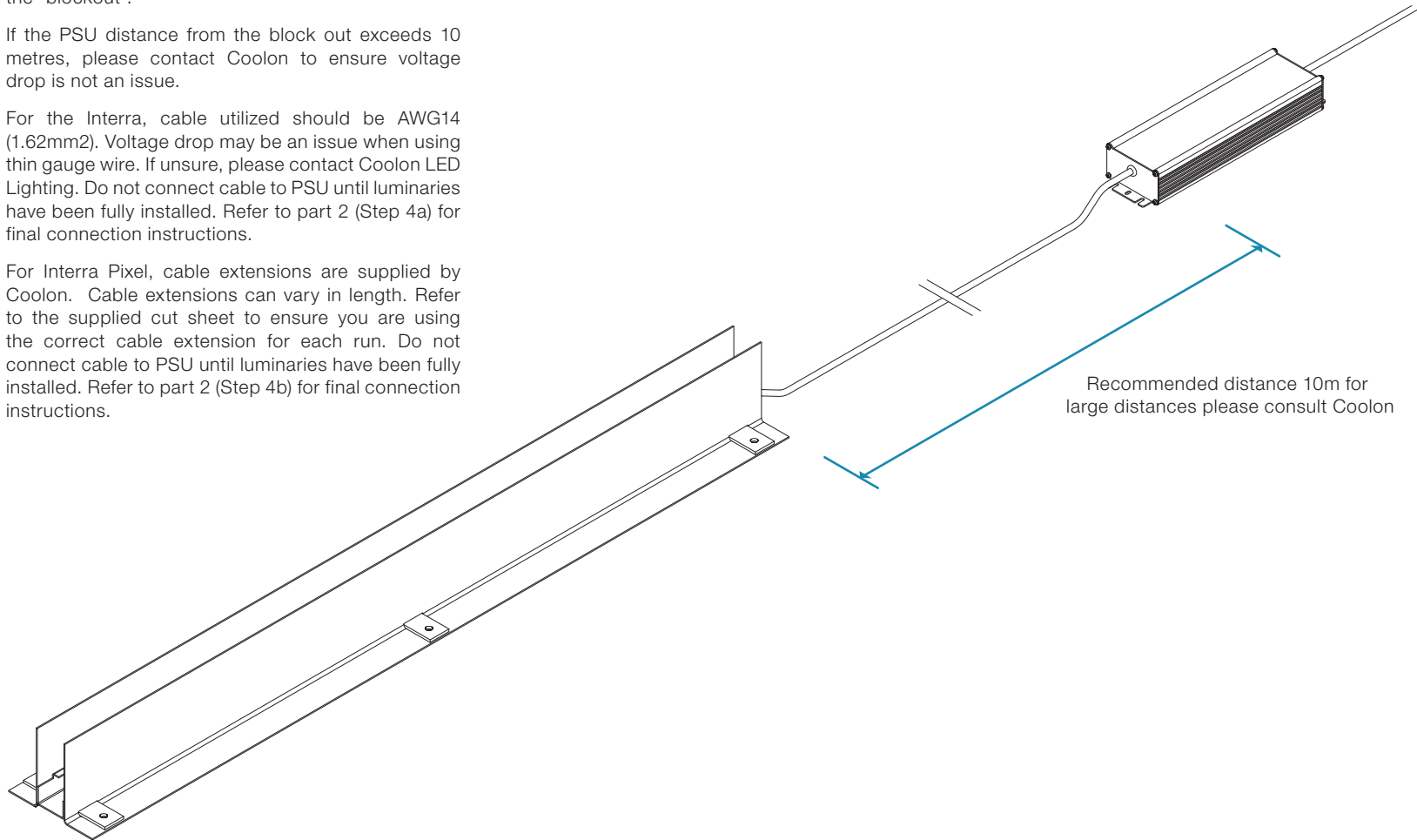Install cabling between the PSU to the "blockout".

Conduit (by others) must be effectively protected/ shielded to ensure installation is not compromised.

Power Supply Unit (supplied based on load or based on layout) should not be more than 10 metres from the "blockout".

If the PSU distance from the block out exceeds 10 metres, please contact Coolon to ensure voltage drop is not an issue.

For the Interra, cable utilized should be AWG14 (1.62mm2). Voltage drop may be an issue when using thin gauge wire. If unsure, please contact Coolon LED Lighting. Do not connect cable to PSU until luminaries have been fully installed. Refer to part 2 (Step 4a) for final connection instructions.

For Interra Pixel, cable extensions are supplied by Coolon. Cable extensions can vary in length. Refer to the supplied cut sheet to ensure you are using the correct cable extension for each run. Do not connect cable to PSU until luminaries have been fully installed. Refer to part 2 (Step 4b) for final connection instructions.
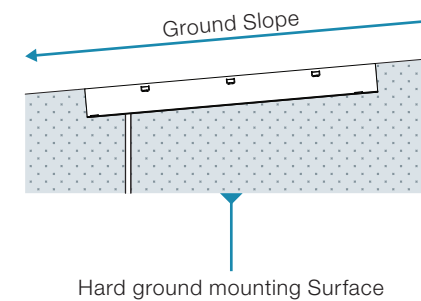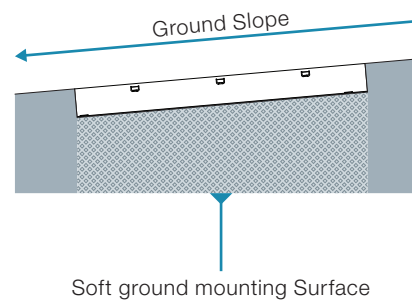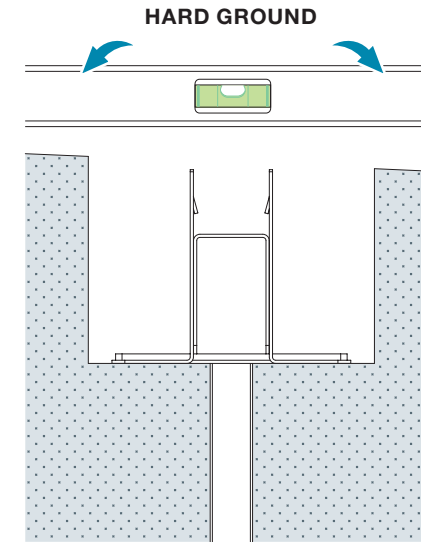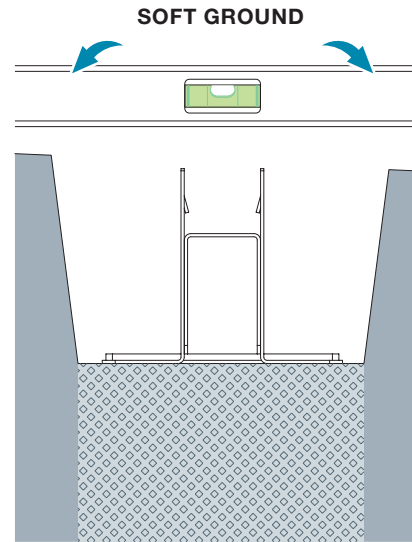
Recommended distance 10m for large distances please consult Coolon

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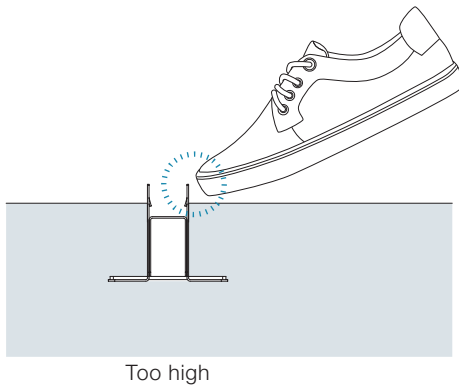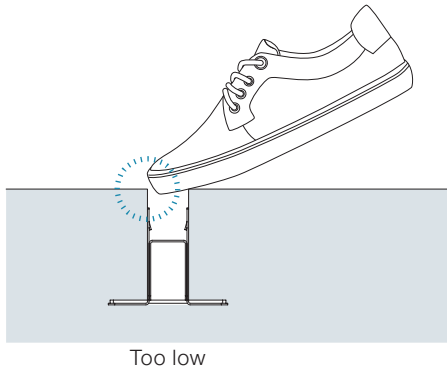
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▪ STEP 5   LEVEL BLOCKOUT

Level the "blockout" to so that the top is flush with the ground.

Adjust mounting surface to ensure "blockout" is level with the ground for the entire length of the run.

⚠ "Blockout" protruding or dropping below the ground surface will cause a trip hazard.

Too low

Too high

SOFT GROUND

HARD GROUND

Ground Slope

Ground Slope

Soft ground mounting Surface

Hard ground mounting Surface

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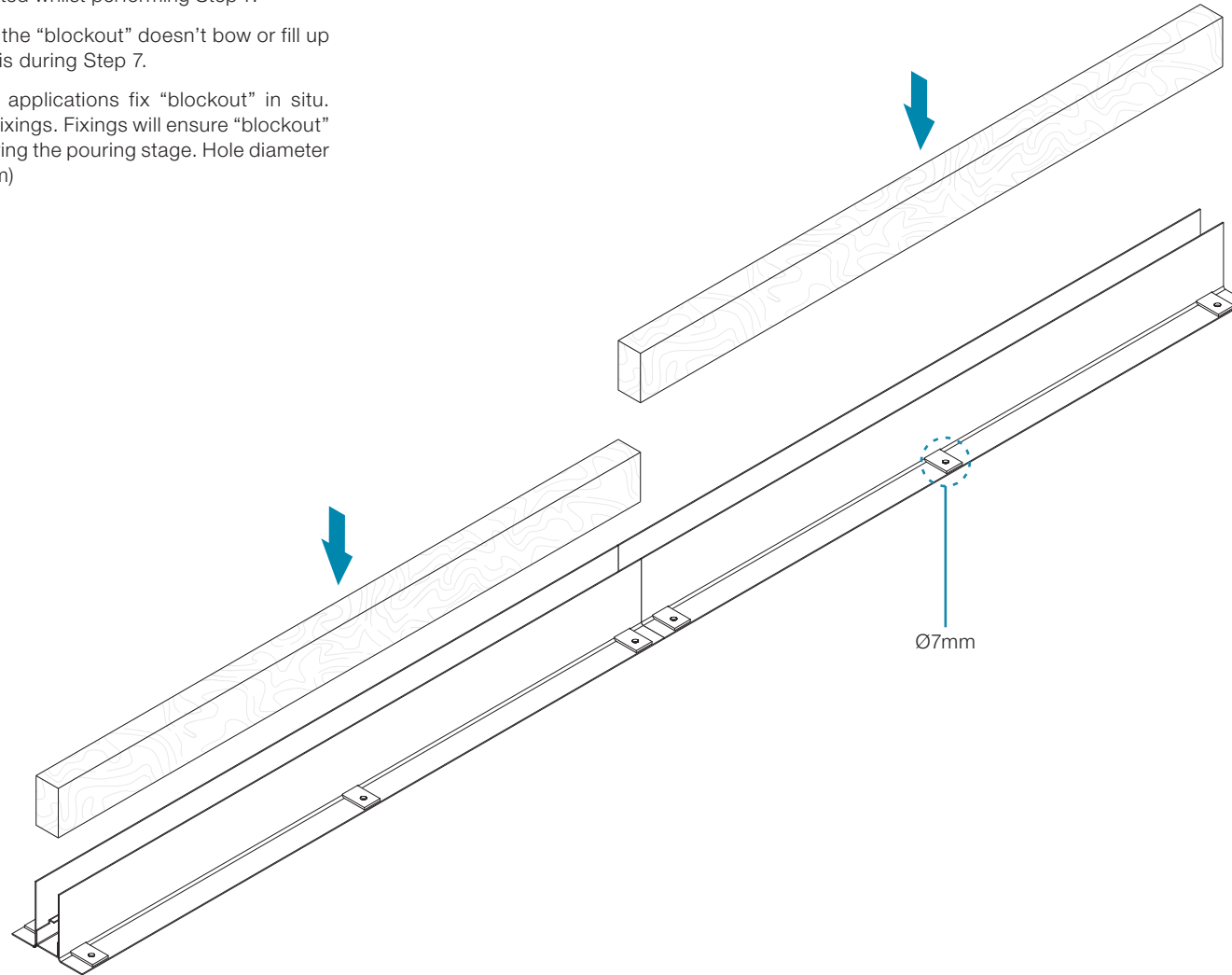
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- STEP 6   INSTALL TEMPORARY TIMBER INSERT

Install temporary timber insert to ensure "blockout" is sufficiently protected whilst performing Step 7.

Insert will ensure the "blockout" doesn't bow or fill up with excess debris during Step 7.

For hard ground applications fix "blockout" in situ. Use appropriate fixings. Fixings will ensure "blockout" doesn't move during the pouring stage. Hole diameter for fixings is (7mm)
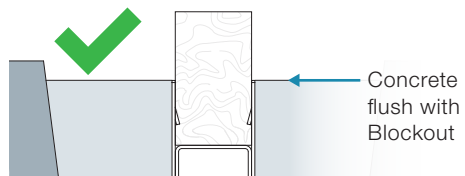
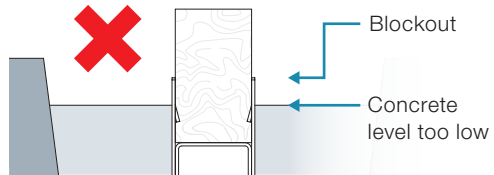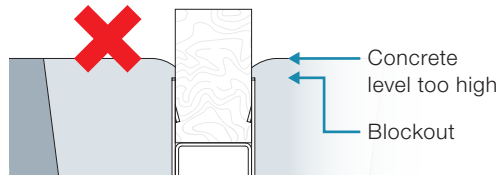Ø7mm

COOLON
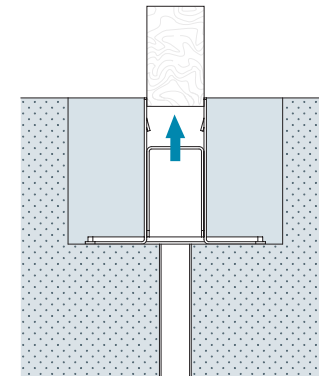
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▪ STEP 7   FILL

Pour concrete around "blockout". Ensure concrete doesn't enter the inside of the "blockout".

Ensure the level of concrete is flush with the "blockout"

❌   Concrete level too high

Blockout

❌   Blockout

Concrete level too low

✅   Concrete flush with Blockout

Please remove excess concrete from temporary timber insert and "blockout". Ensure insert can be removed once concrete has set or the surrounding area has been filled.

Remove temporary timber insert from "blockout" after concrete has set.

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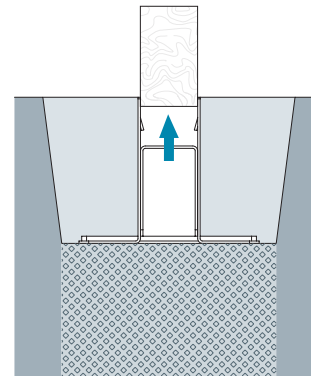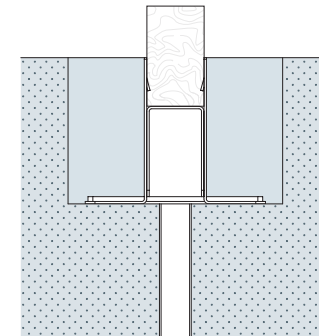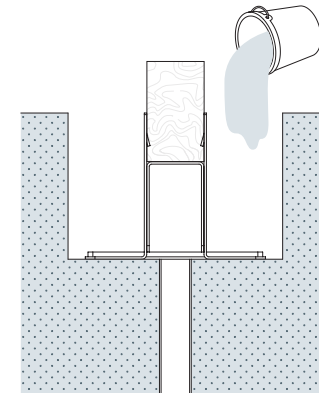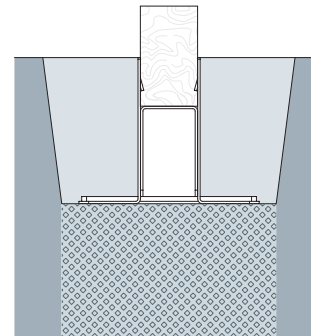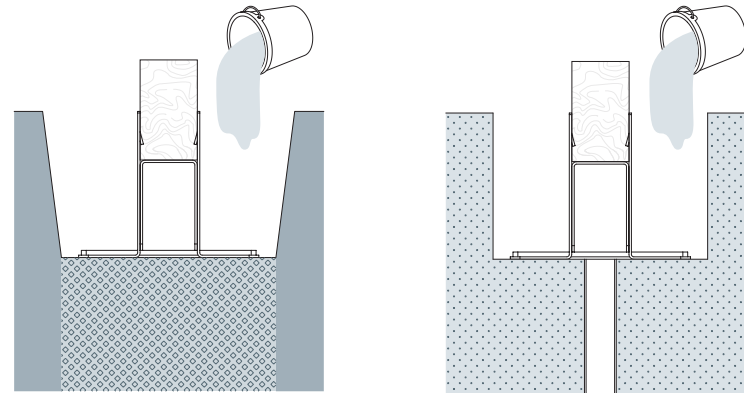
▪ STEP 1   INSTALL LUMINAIRE

Start installation at one end of the run. Ensure the fittings has a length code that does not contain "B". Length codes with "B" must be installed last.

Ensure you have selected the correct luminaire length for the "blockout" and that orientation is correct so that male and female connectors meet.

To install, align the notches in the luminaire are with the locking tabs in the "blockout".

Slide luminaire to the side to ensure luminaire is locked into block out via three-locking tabs.

⚠ **DO NOT** force luminaire into "blockout", it should insert easily. If luminaire does not insert easily, check that notches are aligned or if wiring has been jammed under the luminaire.

Never stand on or use tools to force to the luminaire. This will cause damage and void Warranty.

NOTCH

LOCKING TAB

Unlocked

Locked

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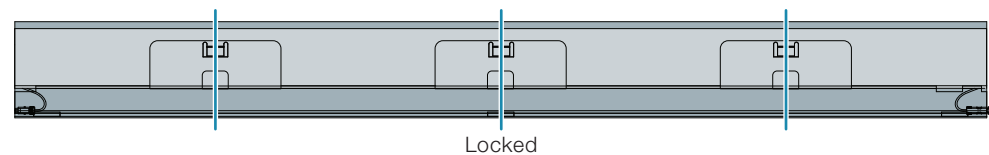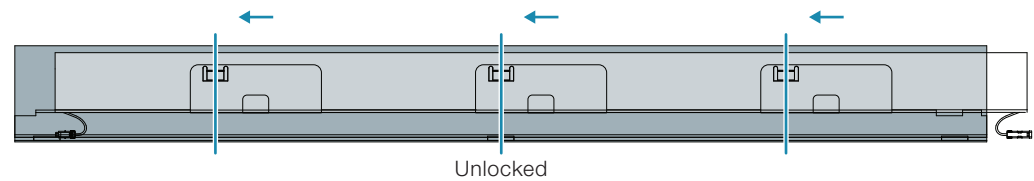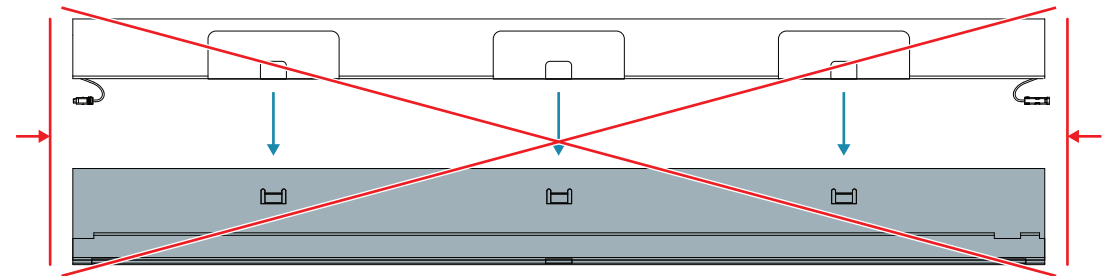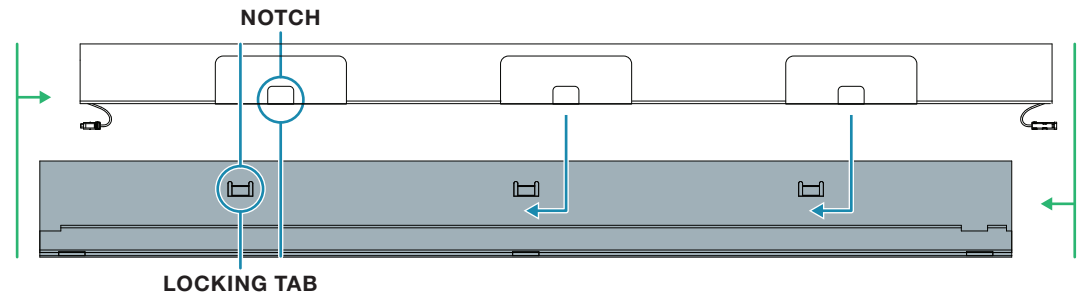
- STEP 2   CONNECT

After Inserting the first luminaire, connect the Male connector/s to the Female connector/s of the next luminaire.

Interra uses one 4 pin connector. Interra Pixel uses one 4 pin connector and one 3 pin connector.

Before inserting the second luminaire, tuck the wires and connectors in to the "blockout" cavity.

Insert the second luminaire carefully ensuring no wires are pinched in the processed. Repeat with the remaining luminaires.

INTERRA
4 pin Connector

INTERRA PIXEL
3 pin Connecter
+ 4 pin Connector

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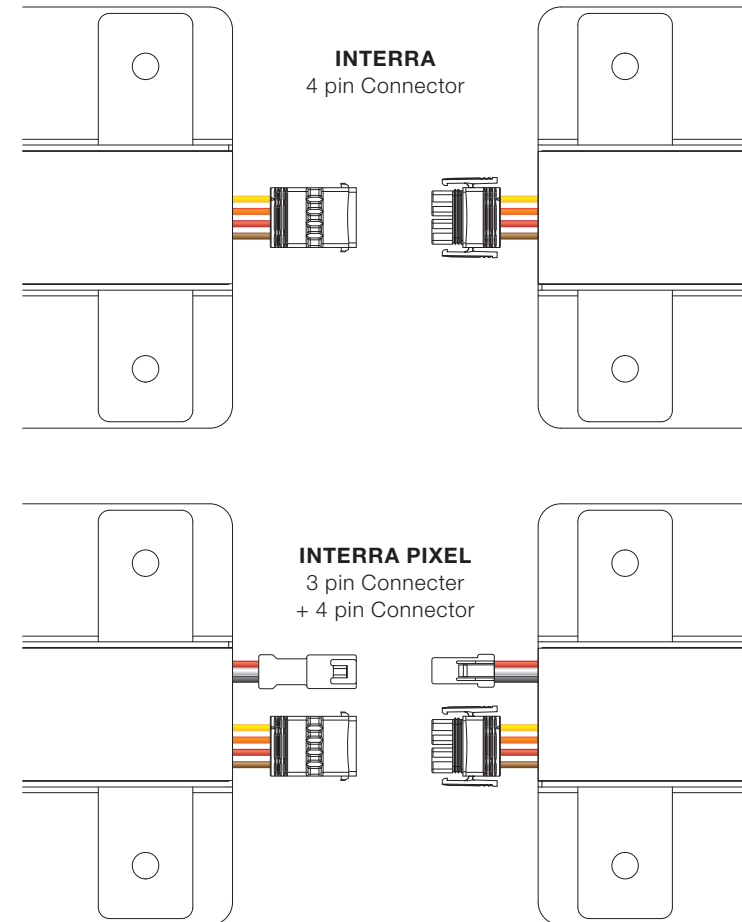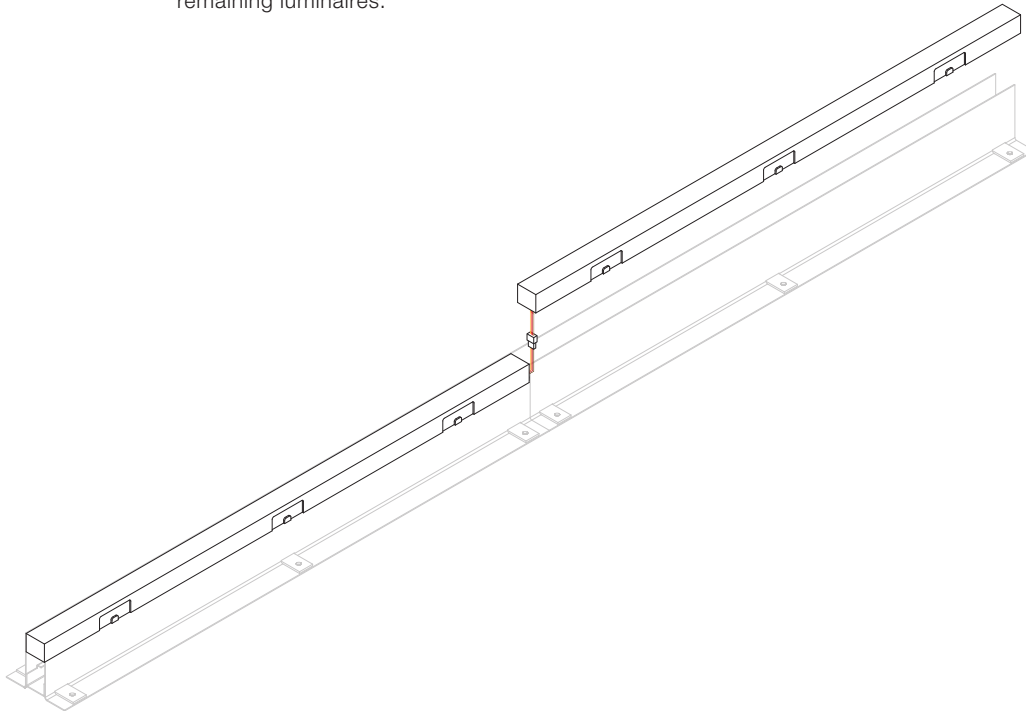
▪ STEP 3

LOCK LAST LUMINAIRE

The last luminaire to be installed is always inserted into a slightly larger "blockout", this is to allow room to slide into locking position.

The "blockouts" with "B" in their length codes contain "terminating end locks" and should only be installed at the end of a run.

Once final lumainire has been installed, insert the "terminating end lock" into remaining gap and fasten with screws and tool provided. This will secure all luminaires in situ.

Seal remaining gap between luminaire and terminating end lock with opaque, white silicone sealant.
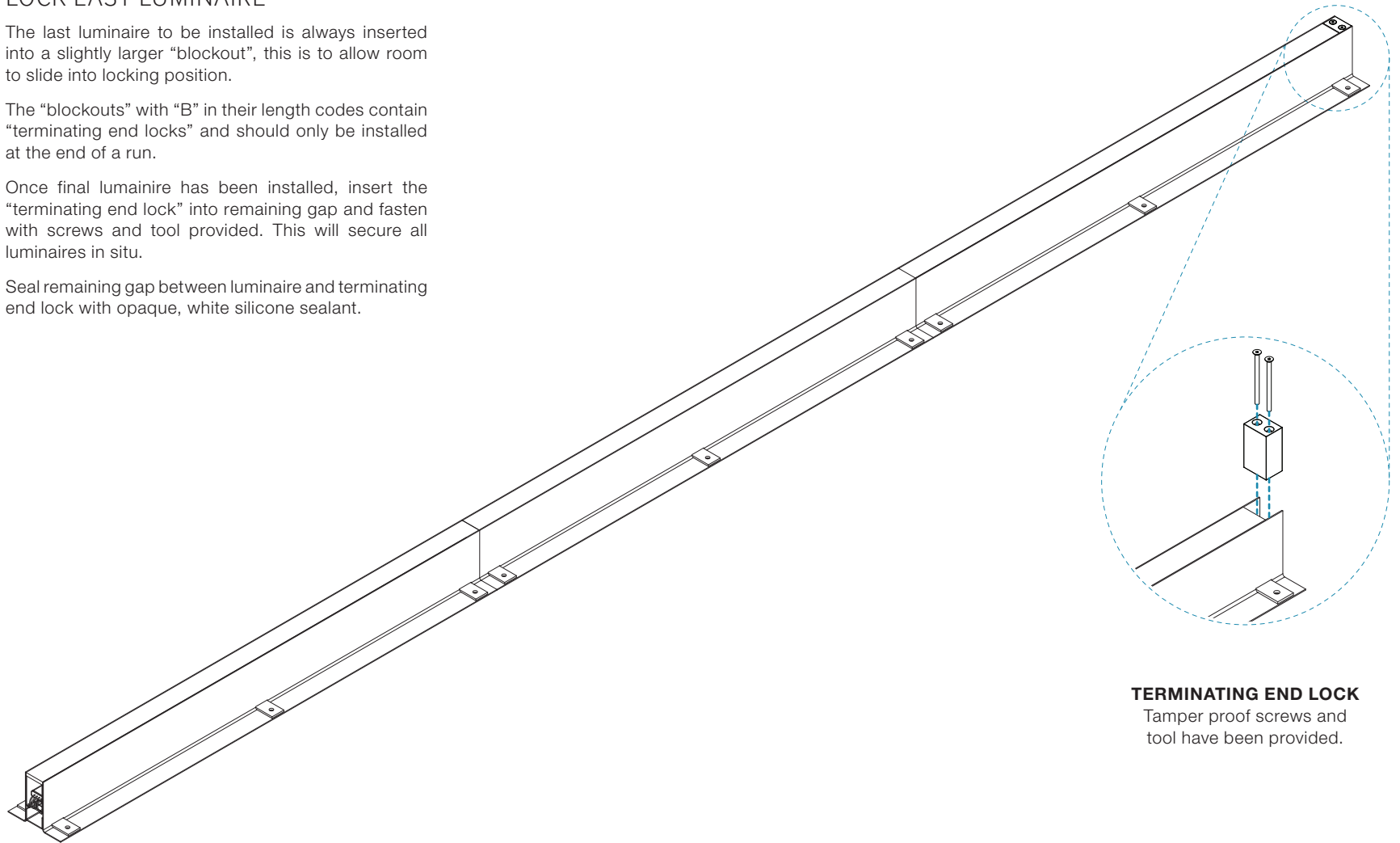
TERMINATING END LOCK
Tamper proof screws and
tool have been provided.

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▪ STEP 4A   CONNECT PSU TO INTERRA

A IP67 (or higher) rated junction box (by others) must be used to provide connection from PSU to Luminaires.

Power Supply Unit (supplied based on load or based on layout) should not be more than 10 metres away from the "blockout".

Cable utilized should be AWG14 (1.62mm^2).

JUNCTION BOX
(by others)

Maximum
10 metres

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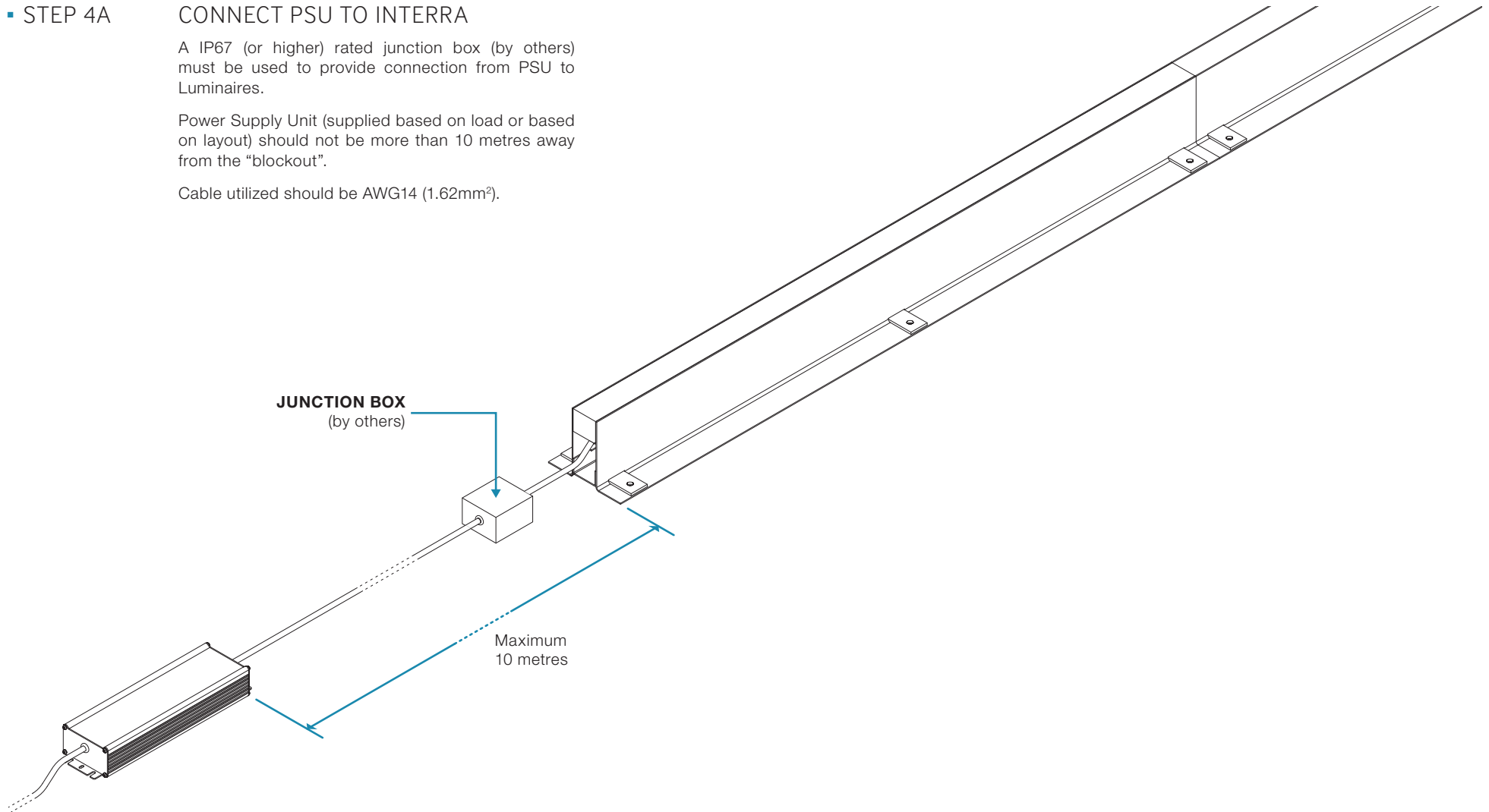
STEP 4B

CONNECT PSU AND RDM TO INTERRA PIXEL

Connect the 4 pin and 3 pin Male connector of last Luminaire to the Female connectors on the "leader" supplied.

The "leader" is to be connected to a cable extension using the 5 pin connector supplied. The cable extensions (supplied by Coolon as an additional accessory) can vary in length.

Refer to the supplied cut sheet to ensure you are using the correct cable extension for each run.

Cable extension are to be connected to the RDM driver using a 5 pin connector supplied.

The RDM Driver is to be connected to the Power Supply Unit (PSU) using the 3 pin connector supplied.

The PSU are supplied based on load or layout. Refer to the supplied cut sheet to ensure that you are using the correct PSU for each run.

● Hole 1 + Positive (48VDC) Red
● Hole 2 - Negative (GND) Black
● Hole 3 + Positive Data Green
○ Hole 4 - Neagtive Data White
● Hole 5 Data (GND) Blue

THB.387
5 pin Connector

Ø23.5mm

Ø23mm

47.5mm

48mm

A (Green)
B (White)
0V (Blue)
0V (Black)
+48V (Red)
+48V (Red)
GND (Black)

THB.400.DA1
5 pin Connector

Ø32mm

+ Positive (48VDC) Red
– Negative (GND) Black
Data (GND) Blue
– Neagtive Data White
+ Positive Data Green

130mm

Cable Extension
(Refer to cutsheet for length)

3 pin female
connector

3 pin male
connector

200mm

300mm

RDM

300mm

Leader

4 pin female
connector

4 pin male
connector

THB.400.CIA
3 pin Connector

Ø24mm

+ Positive (48VDC) Red
– Negative Black

PSU

300mm

115mm

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