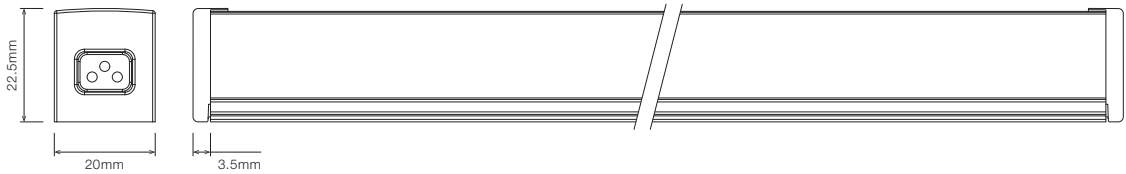# COOLON

P20 STRIP PROFILE INSTALLATION INSTRUCTIONS

Featured on the following products

- ALTO IP
- FORMA
- MAYA UG TW
- MAYA UG TW IP
- MULTO IP
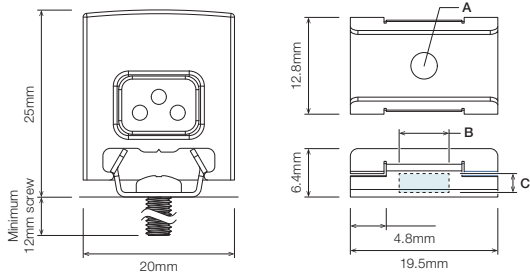- RATIO
- RATIO IP
- SPECTRUM RGBW
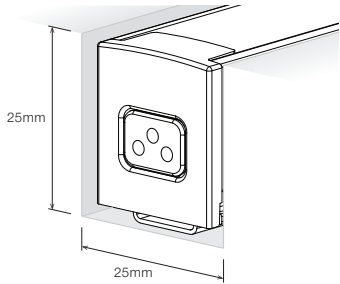- SPECTRUM RGBW IP

▪ PROFILE DIMENSIONS

22.5mm
20mm
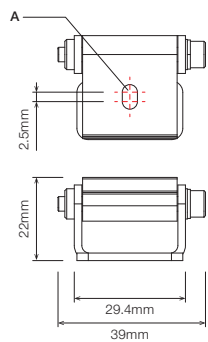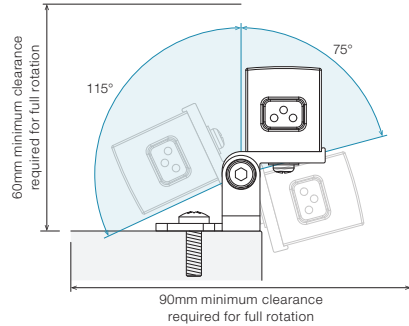3.5mm

⚠ 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.

▪ MOUNTING OPTIONS

With MC-CCLIP20
Stainless Steel C-Clip

A
25mm
Minimum 12mm screw
20mm

12.8mm
B
6.4mm
C
4.8mm
19.5mm

RECOMMENDED REBATE
When using MC-CCLIP20 only

25mm
25mm

ØBmm
Cmm
ØAmm

	MC-CCLIP20	MC-STR-P20R
A (Ø_mm) Screw outer diameter	3.3	4
B (Ø_mm) Screw head clearance	6.6	N/A
C (mm) Screw head pocket depth	2.5	N/A
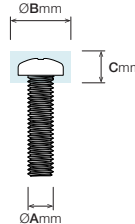
With MBR-RB-TA-BLK & MBR-RB-TB-BLK
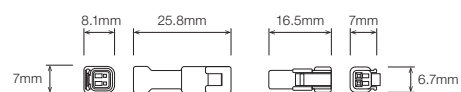Rotating Bracket Type A & Type B

TYPE A
20mm
44mm
Minimum 12mm screw
27.5mm

35°
60mm minimum clearance required for full rotation
125°
90mm minimum clearance required for full rotation

TYPE B
20mm
44mm
Minimum 12mm screw
45mm

115°
60mm minimum clearance required for full rotation
75°
90mm minimum clearance required for full rotation

A
2.5mm
22mm
29.4mm
39mm

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▪ CONNECTOR DIMENSIONS

Connector 2 Pin
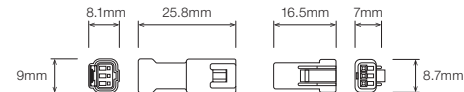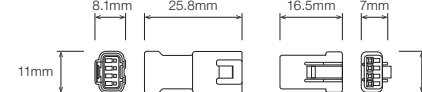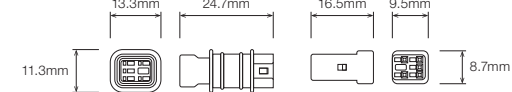
7mm | 8.1mm | 25.8mm | 16.5mm | 7mm | 6.7mm

Connector 3 Pin

9mm | 8.1mm | 25.8mm | 16.5mm | 7mm | 8.7mm

Connector 4 Pin

11mm | 8.1mm | 25.8mm | 16.5mm | 7mm | 10.7mm

Connector 5 Pin

11.3mm | 13.3mm | 24.7mm | 16.5mm | 9.5mm | 8.7mm

Round Locking Connector 2 Pin

Ø10.6mm | CABLE Ø5.5mm | 41mm | 43.8mm | CABLE Ø5.5mm | Ø14mm

Round Locking Connector 3 Pin

Ø10.6mm | CABLE Ø5.5mm | 41mm | 43.8mm | CABLE Ø5.5mm | Ø14mm

Flat Connector 4 Pin

18.9mm | 9mm | 41.4mm | 37.7mm | 9mm | 26mm

Connector 6 Pin

Ø18mm | CABLE Ø5.8mm | 55.5mm | 59mm | CABLE Ø5.8mm | Ø14mm
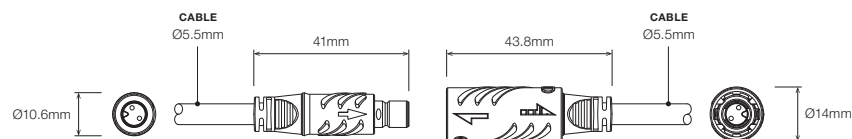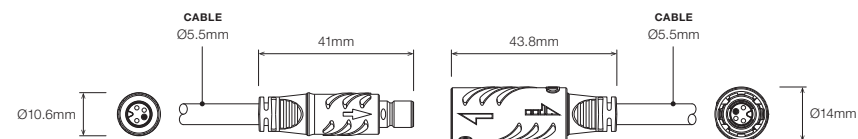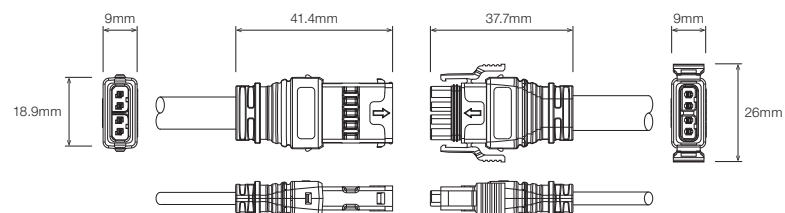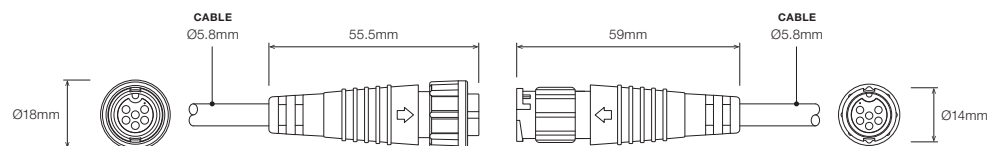
▪ WIRING OPTIONS

Alto IP / Multo IP

Connector 2 Pin (RB)

Connector 4 Pin (RB)

Flat Connector 4 Pin (BROY)
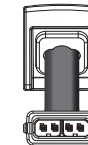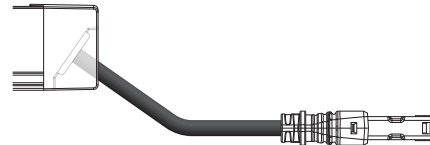
+ 24V / 42V
Brown

+ 24V / 42V
Red

– GND
Orange

– GND
Yellow

Forma

2 Wires (RB) – Indoor only

+ POSITIVE (24VDC / 42VDC)
Red

– NEGATIVE (GND)
Black

Connector 2 Pin (RB)

Round Locking Connector 2 Pin

Round Cable 2 Wires (RB)

+ POSITIVE (24VDC / 42VDC)
Red

– NEGATIVE (GND)
Black
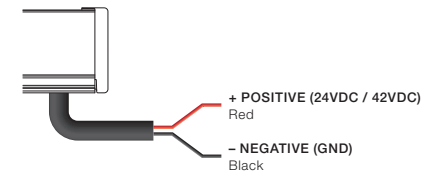
Maya UG TW

3 Wires (RWB) – Indoor only

+ 24V
Red

– CW (COOL WHITE LEDS)
White

– WW (WARM WHITE LEDS)
Black

Round Cable 3 Wires (RB)

+ 24V
Red

– CW (COOL WHITE LEDS)
White
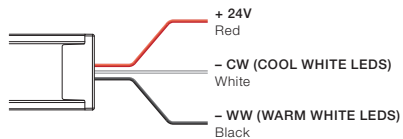
– WW (WARM WHITE LEDS)
Black
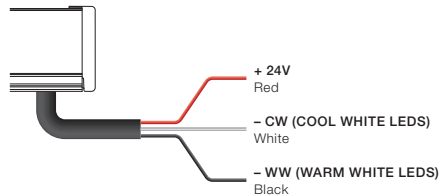
Maya UG TW IP

Flat Connector 4 Pin (BROY)
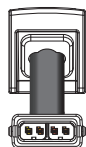
+ 24V
Brown

+ 24V
Red

– CW (COOL WHITE LEDS)
Orange

– WW (WARM WHITE LEDS)
Yellow

▪ WIRING OPTIONS

Ratio

3 Wires (RWB) – Indoor only

+ POSITIVE (24VDC / 42VDC)
Red

DIMMING
White

– NEGATIVE (GND)
Black
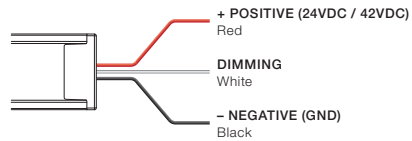
Connector 3 Pin (RWB)

Round Cable 3 Wires (RB)

+ POSITIVE (24VDC / 42VDC)
Red

DIMMING
White

– NEGATIVE (GND)
Black
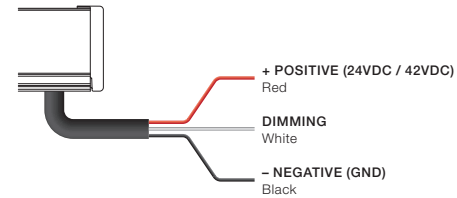
Ratio IP

Connector 3 Pin (RWB)

Connector 5 Pin (RRWBB)

+ POSITIVE (24VDC / 42VDC)
Red

+ POSITIVE (24VDC / 42VDC)
Red

DIMMING
White

– NEGATIVE (GND)
Black

– NEGATIVE (GND)
Black

Flat Connector 4 Pin (BROY)

+ 24V
Brown

+ 24V
Red

– GND
Orange

PWM DIMMING
Yellow

Round Locking Connector 3 Pin (GBW)

+ 24V
Green

– GND
Black

DIMMING
White

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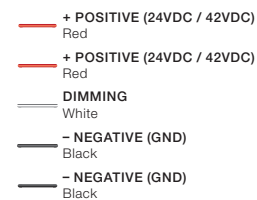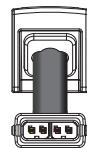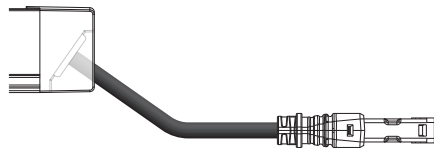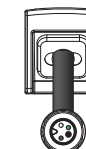
▪ WIRING OPTIONS

Spectrum RGBW

6 Wires (OYRGBW) – Indoor only

+ VDC
Orange

+ VDC
Yellow

− RED
Red

− GREEN
Green

− BLUE
Blue

− WHITE
White
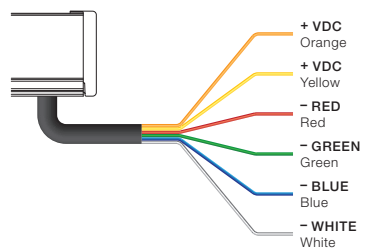
Spectrum RGBW IP

Connector 6 Pin (OYRGBW)

+ VDC
Orange

+ VDC
Yellow

− RED
Red

− GREEN
Green

− BLUE
Blue

− WHITE
White

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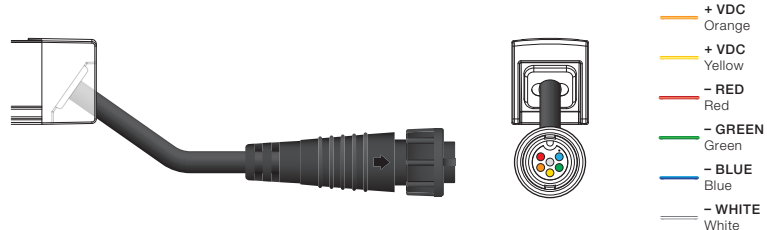
WIRING DIAGRAM FOR TW

For more detailed information, please refer to the specifically used LED driver's documentation.

With DRV-LN200D-D2Z2C / D2Z2D

eldoLED LINEARdrive 8A DALI DT8 Full-Colour Dimmable LED Driver / 8A DALI DT6 Full-Colour Dimmable LED Driver

From Mains

PSU 24VDC

LED LUMINAIRE

From DALI master controller
To next DALI slave device

Wiring Colour Code

● Black (– WW · Warm White LEDs)   ● Red (+ 24)   ○ White (– CW · Cool White LEDs)

From Mains

PSU 24VDC

LED LUMINAIRE

From DALI master controller
To next DALI slave device

Wiring Colour Code

● Brown (+ 24)   ● Yellow (– WW · Warm White LEDs)   ● Red (+ 24)   ● Orange (– CW · Cool White LEDs)

WA ENDCAP

With CAS-CBU-PWM4

Casambi Bluetooth Controllable 4 Channel PWM Dimmer

From Mains

PSU 24VDC

LED LUMINAIRE

Wiring Colour Code

● Red (+ 24)   ● Black (– WW · Warm White LEDs)   ○ White (– CW · Cool White LEDs)

From Mains

PSU 24VDC

LED LUMINAIRE

Wiring Colour Code

● Brown (+ 24 · Not in Use)   ● Red (+ 24)   ● Yellow (– WW · Warm White LEDs)   ● Orange (– CW · Cool White LEDs)

WA ENDCAP

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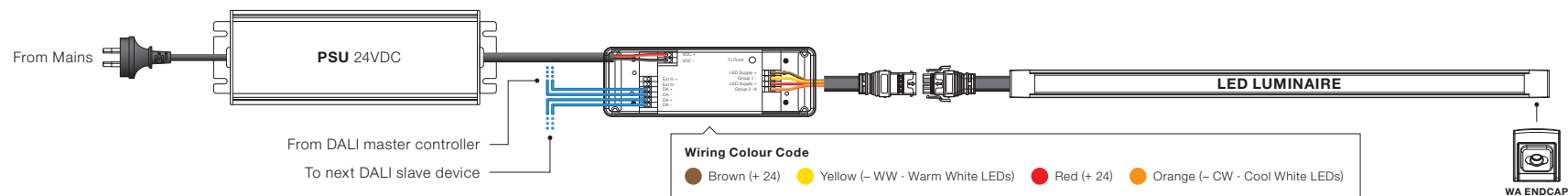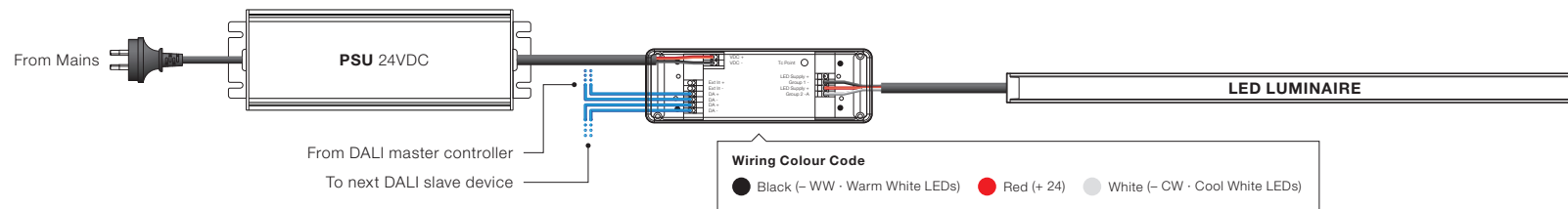
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WIRING DIAGRAM FOR RGBW

For more detailed information, please refer to the specifically used LED driver's documentation.

FEMALE RJ45

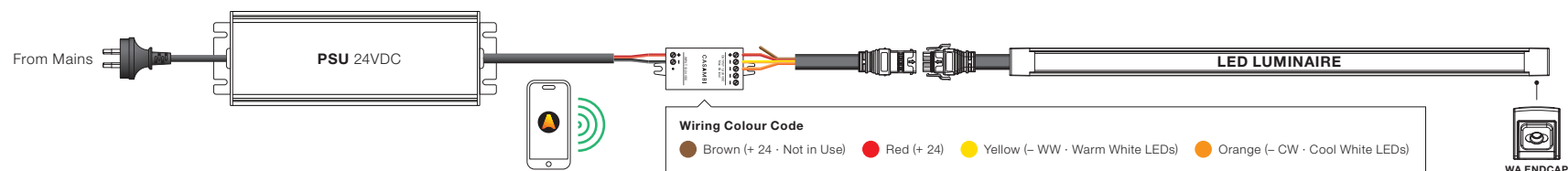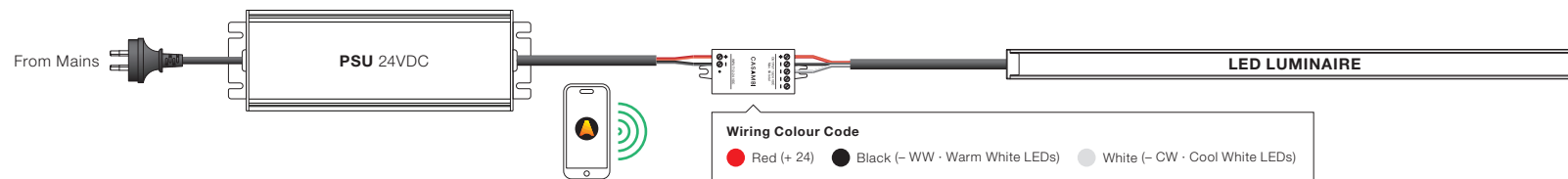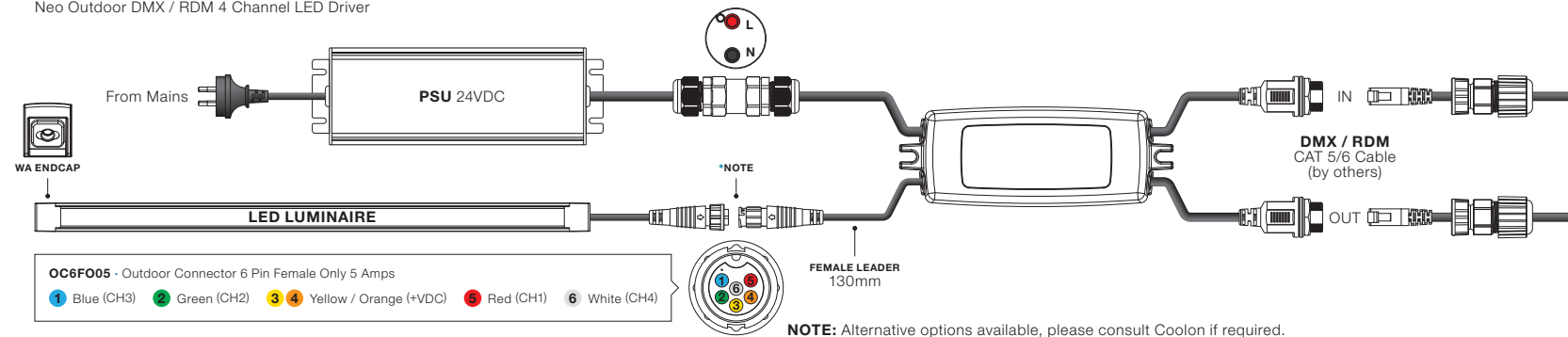**ESTA E1.11-2004 PINOUT**
12345678
1 DMX +   **2** DMX –   **7** Common   **8** Common

With DRV-RDM-P4

DMX / RDM 4 Channel LED Driver

From Mains   **PSU** 24VDC

LED LUMINAIRE

IN
DMX / RDM
CAT 5/6 Cable
(by others)
OUT

Wiring Colour Code
● ● Yellow / Orange (+VDC)   ● Red (CH1)   ● Green (CH2)   ● Blue (CH3)   ○ White (CH4)
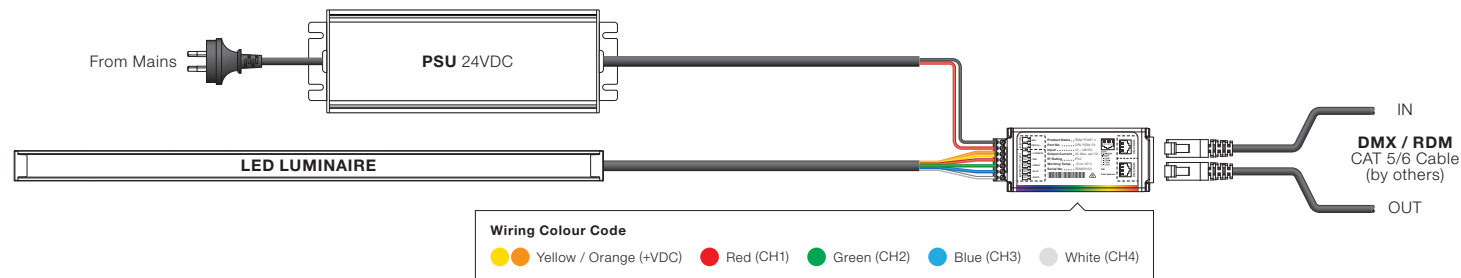
With DRV-RDM CV NEO-RJ45F-OC6FO05-IP65

Neo Outdoor DMX / RDM 4 Channel LED Driver

L
N

From Mains   **PSU** 24VDC

WA ENDCAP

LED LUMINAIRE

*NOTE

IN
DMX / RDM
CAT 5/6 Cable
(by others)
OUT

OC6FO05 · Outdoor Connector 6 Pin Female Only 5 Amps
1 Blue (CH3)   **2** Green (CH2)   **3** **4** Yellow / Orange (+VDC)   **5** Red (CH1)   **6** White (CH4)

FEMALE LEADER
130mm

NOTE: Alternative options available, please consult Coolon if required.

With CAS-CBU-PWM4

Casambi Bluetooth Controllable 4 Channel PWM Dimmer

From Mains   **PSU** 24VDC   CASAMBI   **LED LUMINAIRE**

Wiring Colour Code
● ● Yellow / Orange (+VDC)   ● Red (CH1)   ● Green (CH2)   ● Blue (CH3)   ○ White (CH4)

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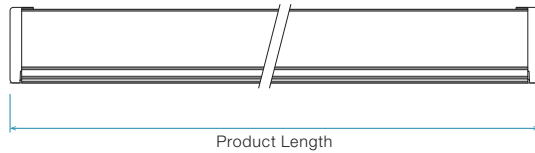
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▪ STEP 1

Before you begin installation, ensure that you understand the fitting layout required as supplied lengths may vary.

Refer to the supplied cut sheet for length breakdowns.

* For fittings 1m or longer two installers are recommended.

Product Length

▪ WIRING

If the fitting is wired from the back:
It will need to wired before mounting.

If the fitting is wired from the side:
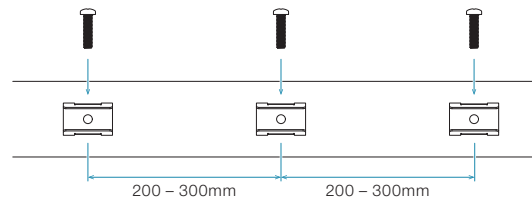It will need to wired after mounting.

Wire the fitting to the correct power supply as advised on the cut sheet.

## STAINLESS STEEL C-CLIP
▪ STEP 2

Prepare mounting clips and screws (Ø3.5mm).

Secure mounting clips with screws on timber or metal surface ensuring that mounting clips are positioned screw side up with spacings of 200 – 300mm.

200 – 300mm   200 – 300mm

▪ STEP 3

Lay the luminaire on top of the clips and align so all clips are centred. Starting at one end push down the fitting until you hear the clip lock into place. Continue along the profile until all clips are locked.
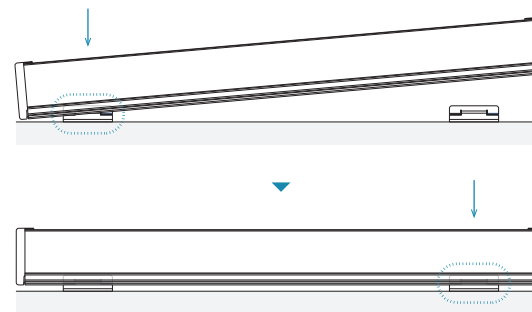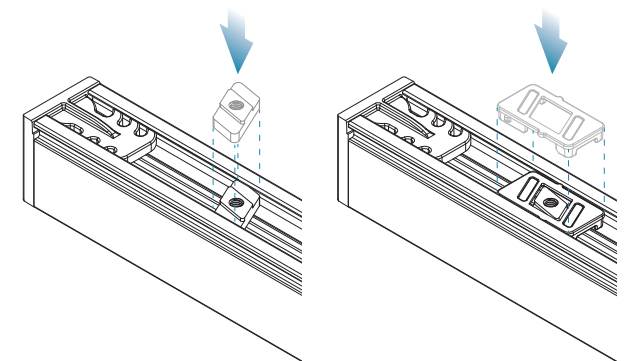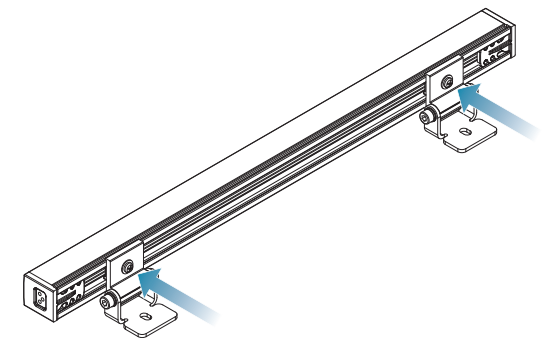

ROTATING BRACKET TYPE A & TYPE B
▪ STEP 2

Place rhomb nut in the base of the extrusion of the luminaire, ensuring that the edges of the nut are parallel with the edges of the extrusion.

Next place the plastic aligning clip over the rhomb nut.

▪ STEP 3

Place the edge of the bracket (with the slight lip) over the extrusion and secure the bracket to the rhomb nut using the screw provided.

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▪ STEP 4

Prepare screws (Ø4mm). Secure the other side of the bracket with screws on timber or metal surface ensuring that mounting clips are straight with spacings of 1,000mm.

Approximately
1,000mm spacings
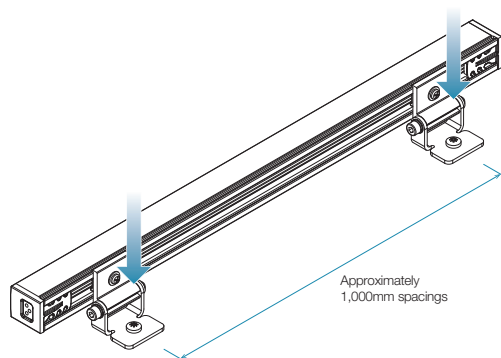
▪ STEP 5

Rotate the fitting to the desired angle and use Allen key provided to tighten bracket to secure in place.

TYPE A

35°

125°

Lock when at
desired angle

TYPE B

75°

115°

Lock when at
desired angle
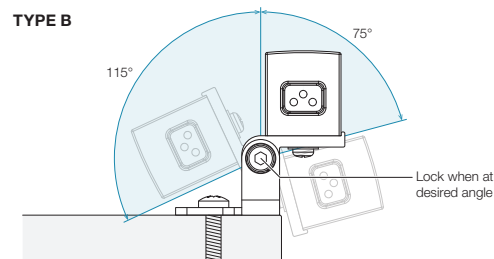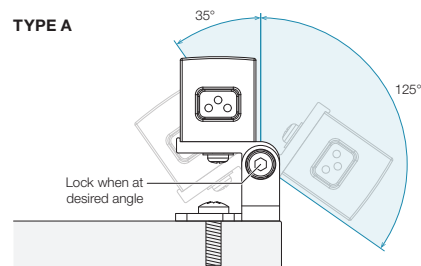
▪ STEP 6

Wire the fitting to the correct power supply as advised on the cut sheet.

* *Typically supplied with AU flex and plug (1.8m long)*

to Mains   to Luminaire

−V (Black)
+V(Red)

AC/L (Brown)
AC/N (Blue)
FG⊕ (Green/Yellow)