



# ARIA X RGBW

RGBW AC FLOODLIGHT FLD-ARIA X RGBW







Aria X RGBW is a high-power AC RGBW floodlight luminaire, specifically designed for creative wall washing and grazing applications. Aria X RGBW is an ultra-high-power member of the Aria family, providing heavy-hitting lumen output and maximum colour oomph for a show-stopping effect in each application.

Powerful, robust and versatile, this colour changing luminaire features an integral power supply with DMX driver and is offered with a range of accessories.

**POWER (AC)**

**LUMINOUS FLUX**

**70W**

68W / 600mm unit



219 – 2,751 lm

**140W**

136W / 2x 600mm unit



438 – 5,502 lm

**210W**

204W / 3x 600mm unit



657 – 8,253 lm

**RGBW FULL COLOUR**





## SELF-ADDRESSING

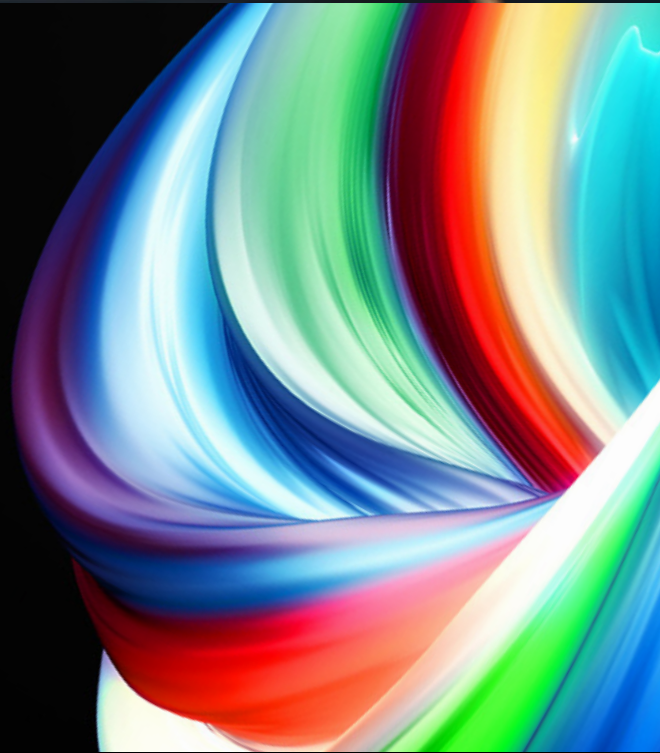
Manual on-site addressing during installation is no longer required with Coolon's clever technology. The self-addressing luminaires automatically enumerate DMX channels in a consecutive manner when connected.

This technology seamlessly recognises sequentially positioned luminaires in Aria installations and requires no unique identifiers.

## MATRIX WHITE

The Matrix White algorithm physically drives RGBW LEDs from an RGB control signal. It does this by calculating when to replace a combination of primary colours (red, green and blue) with a pure white light source. This feature presents users with the following advantages:

- Cost savings, as more luminaires can be controlled by each DMX universe (170 RGBW luminaires, versus 128 without Matrix White)
- Utilise dedicated white output instead of relying on additive RGB (dirty) white
- Reduced power consumption, as the LED chip is being utilised effectively
- Superior colour rendering and appearance



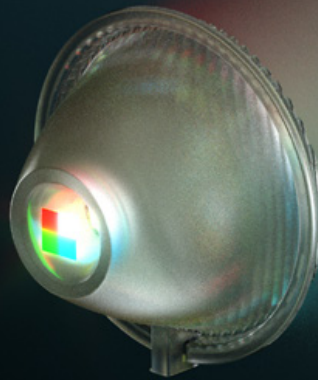
## POLYURETHANE ENCAPSULATION

Aria X RGBW utilises Coolon's encapsulation technology to deliver a truly extraordinary outdoor luminaire. IP66 and IK08, shock and abrasion resistance, thermal protection and reliability are all ensured.



## FINE-TUNED COLLIMATION

Our RGBW Quad chip delivers outstanding lumen output within a single chip, which is effectively collimated with precise and superior optics. This ensures an intensely saturated and uniform effect across the length of the luminaire, delivering an impressive colour gamut without chromatic aberrations or artefacts.



## STREAMLINED TOPOLOGY

Aria X RGBW is truly plug and play - your luminaires arrive to site ready to perform, simplifying lighting design, electrical layout and installation.

Aria's design allows a system to be connected via integral all-in-one cables without further accessories and junction boxes.

Unpack. Connect. Enjoy.  
Installation has never been simpler.

5

YEARS

### 5 YEARS WARRANTY

Coolon luminaires are covered by a solid comprehensive manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



### PROUDLY MADE IN AUSTRALIA

Our products are designed and manufactured in Australia. Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

TECHNICAL SPECIFICATIONS

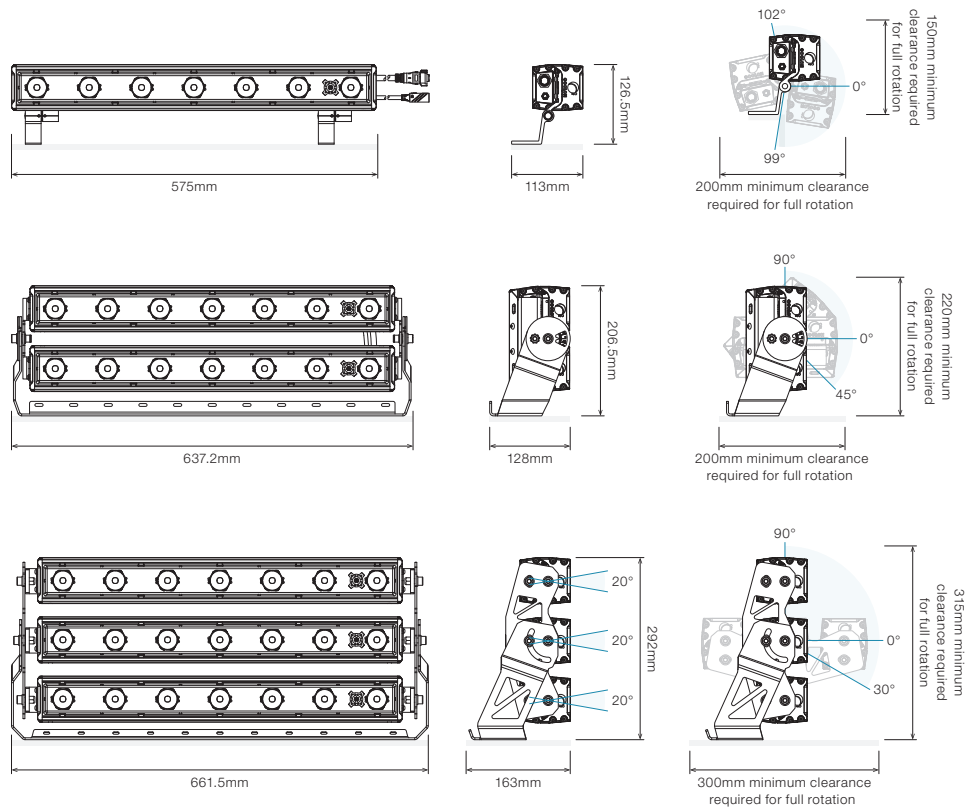
|                                    |   |   |  |
|------------------------------------|---|---|--|
| Product Code                       | FLD-ARIA X RGBW   |   |  |
| Lumen Output                       | 1,285 lm, 36W (White LED, O6010D Optic)                       |   |  |
| Nominal Power                      | 70W   | 140W  | 210W   |
| Body                               | Aluminium Alloy Body  |   |  |
| Finish                             | Brushed Natural Anodised, Brushed Black Anodised              |   |  |
| Cover                              | Polyurethane  |   |  |
| Endcaps                            | Powdercoated Die-cast Aluminium                               |   |  |
| Cables                             | Standard or Low Smoke Zero Halogen (LSZH) – On Request        |   |  |
| Weight                             | 4.2kg   | 11.0kg  | 16.0kg   |
| LEDs per Luminaire                 | 7 pieces of 4 in 1 RGBW LEDs                                  |   |  |
| Input Voltage                      | 120 – 250VAC  |   |  |
| Input Frequency Range              | 47 – 63Hz   |   |  |
| Power Factor (PF)                  | >0.9  |   |  |
| Inrush Current                     | Meets NEMA-410 requirements                                   |   |  |
| Leakage Current                    | 400 µA @ 120VAC<br>800 µA @ 230VAC                            |   |  |
| Max. Input Power                   | 74W   | 148W  | 222W   |
| Max. Continuous Connection Length  | Up to 24 units @ 230VAC<br>Up to 12 Units @ 120VAC            | Up to 12 units @ 230VAC<br>Up to 6 Units @ 120VAC | Up to 8 units @ 230VAC<br>Up to 4 Units @ 120VAC |
| Dimming / Control                  | Self Addressable DMX (Full Frames)                            |   |  |
|                                    | 3 DMX Channels  | 6 DMX Channels                                    | 9 DMX Channels                                   |
| Output Dimming Resolution          | 15-bit  |   |  |
| External Heatsink Required         | No, Natural Convection Cooling                                |   |  |
| Ambient Operating Temperature      | Ta -40°C to 50°C  |   |  |
| Reported Lumen Maintenance         | PBED-20FTE-SRGBV  |   |  |
| TM21-11 (@ Ts = 90°C, If = 1500mA) | L90 (6K) = 13,000 hours<br>L70 (6K) > 33,000 hours            |   |  |
|                                    | ARIA X RGBW max. operating values (@ Ts = 85°C, If = 1,330mA) |   |  |
| IP Rating                          | IP66 (Standard)   |   |  |
| IK Rating                          | IK08 (Standard) - Not including Wiring / Connectors           |   |  |

LUMEN OUTPUT

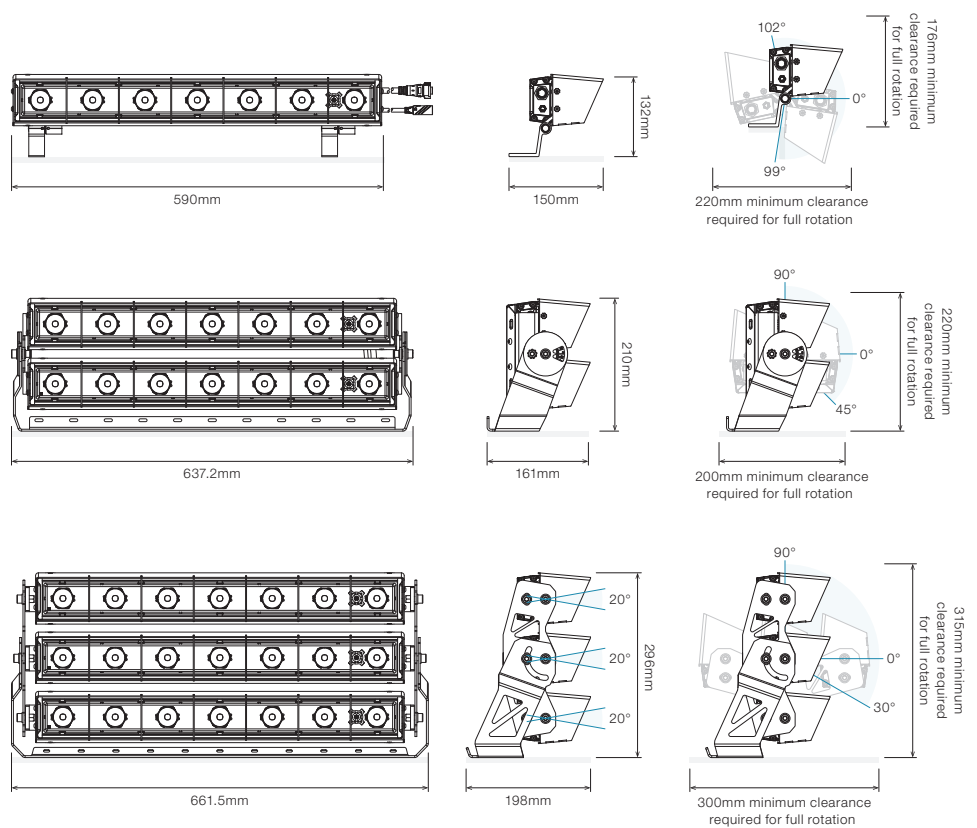
|                     | Power               | 15D  | 30D      | 56D      | O3511D   | O6010D   | RO3511D  | RO6010D  |
|---------------------|---------------------|------|----------|----------|----------|----------|----------|----------|
| ARIA X RGBW<br>70W  | Red                 | 31W  | 705 lm   | 612 lm   | 648 lm   | 704 lm   | 577 lm   | 577 lm   |
|                     | Green               | 36W  | 1,433 lm | 1,332 lm | 1,354 lm | 1,404 lm | 1,143 lm | 1,143 lm |
|                     | Blue                | 36W  | 260 lm   | 219 lm   | 244 lm   | 253 lm   | 220 lm   | 220 lm   |
|                     | White               | 36W  | 1,611 lm | 1,356 lm | 1,522 lm | 1,578 lm | 1,578 lm | 1,285 lm |
|                     | Yellow              | 63W  | 1,825 lm | 1,513 lm | 1,730 lm | 1,801 lm | 1,503 lm | 1,503 lm |
|                     | Magenta             | 63W  | 812 lm   | 688 lm   | 770 lm   | 809 lm   | 673 lm   | 673 lm   |
|                     | Cyan                | 68W  | 2,751 lm | 2,220 lm | 2,604 lm | 2,691 lm | 2,273 lm | 2,273 lm |
|                     | ARIA X RGBW<br>140W | Red  | 62W      | 1,409 lm | 1,224 lm | 1,297 lm | 1,409 lm | 1,154 lm |
| Green               |                     | 72W  | 2,867 lm | 2,663 lm | 2,708 lm | 2,807 lm | 2,287 lm | 2,287 lm |
| Blue                |                     | 72W  | 520 lm   | 438 lm   | 488 lm   | 507 lm   | 440 lm   | 440 lm   |
| White               |                     | 72W  | 3,222 lm | 2,711 lm | 3,044 lm | 3,155 lm | 2,570 lm | 2,570 lm |
| Yellow              |                     | 126W | 3,651 lm | 3,026 lm | 3,460 lm | 3,602 lm | 3,005 lm | 3,005 lm |
| Magenta             |                     | 126W | 1,624 lm | 1,375 lm | 1,541 lm | 1,618 lm | 1,346 lm | 1,346 lm |
| Cyan                |                     | 136W | 5,502 lm | 4,441 lm | 5,208 lm | 5,382 lm | 4,547 lm | 4,547 lm |
| ARIA X RGBW<br>210W |                     | Red  | 93W      | 2,114 lm | 1,836 lm | 1,945 lm | 2,113 lm | 1,732 lm |
|                     | Green               | 108W | 4,300 lm | 3,995 lm | 4,062 lm | 4,211 lm | 3,430 lm | 3,430 lm |
|                     | Blue                | 108W | 780 lm   | 657 lm   | 732 lm   | 760 lm   | 660 lm   | 660 lm   |
|                     | White               | 108W | 4,833 lm | 4,067 lm | 4,566 lm | 4,733 lm | 3,856 lm | 3,856 lm |
|                     | Yellow              | 189W | 5,476 lm | 4,539 lm | 5,190 lm | 5,404 lm | 4,508 lm | 4,508 lm |
|                     | Magenta             | 189W | 2,437 lm | 2,063 lm | 2,311 lm | 2,427 lm | 2,018 lm | 2,018 lm |
|                     | Cyan                | 204W | 8,253 lm | 6,661 lm | 7,812 lm | 8,073 lm | 6,820 lm | 6,820 lm |

■ DIMENSIONS

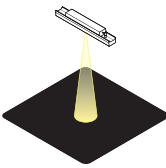
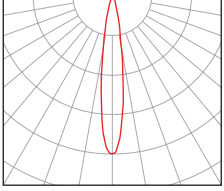
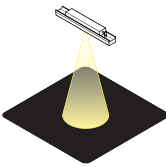
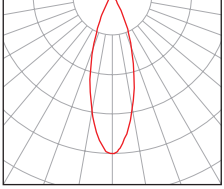
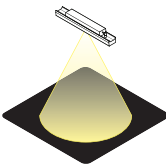
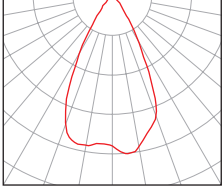
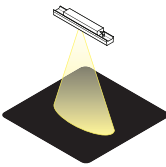
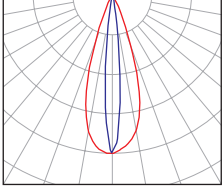
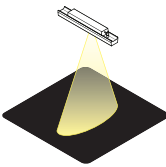
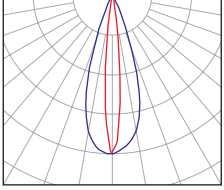
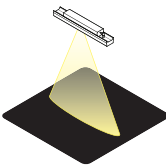
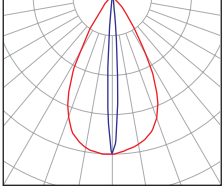
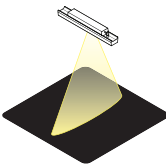
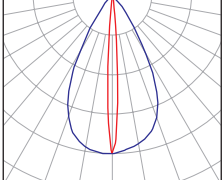
WITH ROTATING BRACKET



WITH ROTATING BRACKET AND GLARE SHIELD

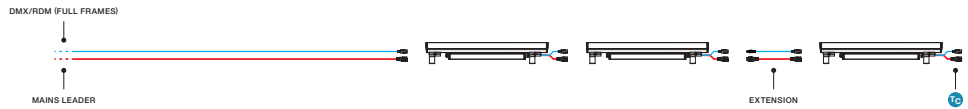


■ POLAR DISTRIBUTION

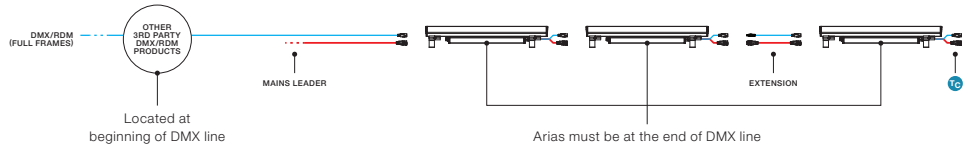
| OPTIC  |  | POLAR DISTRIBUTION  |
|--|--|---|
| <p>15D<br/>Narrow Beam<br/>15° Beam Angle</p>                      |    |    |
| <p>30D<br/>Medium Beam<br/>30° Beam Angle</p>                      |    |    |
| <p>56D<br/>Wide Beam<br/>56° Beam Angle</p>                        |    |    |
| <p>O3511D<br/>Oval Beam<br/>Oval 35° x 11° Beam Angle</p>          |   |   |
| <p>RO3511D<br/>Oval Rotated Beam<br/>Oval 11° x 35° Beam Angle</p> |  |  |
| <p>O6010D<br/>Oval Beam<br/>Oval 60° x 10° Beam Angle</p>          |  |  |
| <p>RO6010D<br/>Oval Rotated Beam<br/>Oval 10° x 60° Beam Angle</p> |  |  |

WIRING DIAGRAMS

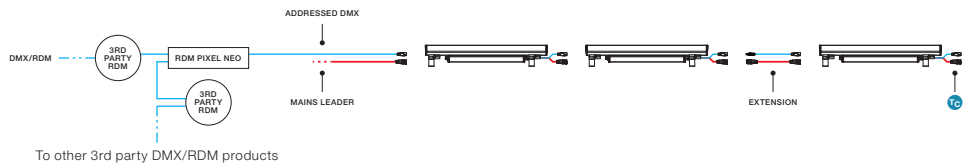
ARIA STANDALONE INSTALLATION



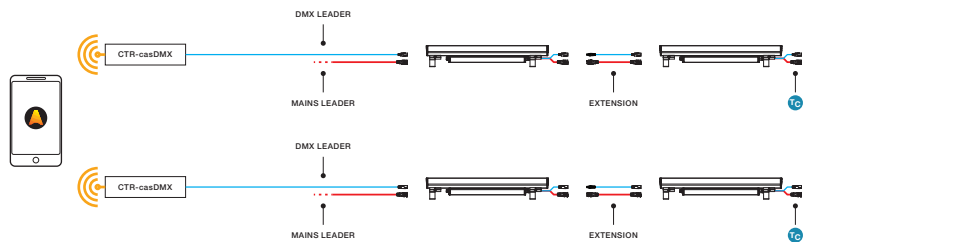
ARIA IN MIXED INSTALLATIONS Option 1 Self Addressing



ARIA IN MIXED INSTALLATIONS Option 2 RDM



ARIA WITH CASAMBI CONTROL



<sup>1</sup> Up to 2 Aria luminaires per casDMX

<sup>2</sup> Please refer to casDMX documentation for reference



CONNECTOR PIN-OUTS



Power Output (Female)



Power Input (Male)

- 1 Active
- 2 Neutral
- 3 Earth



Data Output (Female)



Data Input (Male)

- 1 DMX +
- 2 DMX -
- 3 Common



■ PROFILE  
COLOUR

**BNA** - Brushed Natural Anodised



**BLK** - Brushed Black Anodised



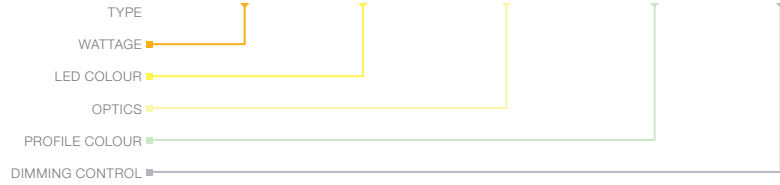
■ IP RATING

**IP66**

Fully protected against dust.  
Protected against wave-like  
water jets from all directions.

ORDERING EXAMPLE

**FLD - ARIA X RGBW - 70W - WW - O3511D - BNA - DMX**



■ **WATTAGE**

|      |                  |
|------|------------------|
| 70W  | Single Luminaire |
| 140W | Twin Luminaire   |
| 210W | Triple Luminaire |

■ **LED COLOUR**

|                 |                  |
|-----------------|------------------|
| WW              | RGB + Warm White |
| CW <sup>1</sup> | RGB + Cool White |

■ **OPTICS**

|         |                                 |
|---------|---------------------------------|
| 15D     | 15° Beam                        |
| 30D     | 30° Beam                        |
| 56D     | 56° Beam                        |
| O3511D  | Oval 35° x 11° Beam             |
| RO3511D | Oval 11° x 35° Beam Rotated 90° |
| O6010D  | Oval 60° x 10° Beam             |
| RO6010D | Oval 10° x 60° Beam Rotated 90° |

■ **PROFILE COLOUR**

|     |                          |
|-----|--------------------------|
| BNA | Brushed Natural Anodised |
| BLK | Brushed Black Anodised   |

■ **DIMMING CONTROL**

|                     |   |
|---------------------|---|
| DMX                 | Self-Addressable DMX                          |
| DMX_CB <sup>2</sup> | Self-Addressable DMX with CB compliant cables |
| casDMX              | Casambi control through CRT-casDMX            |

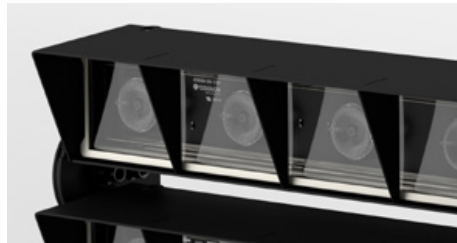
<sup>1</sup> Cool White available on demand

<sup>2</sup> CB Certification

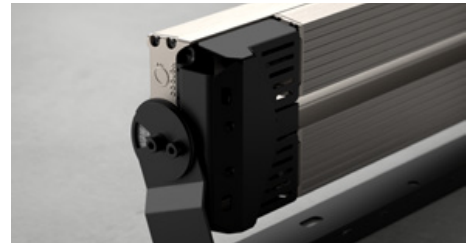
■ ACCESSORIES

| PRODUCT CODE       | DESCRIPTION                      |
|--------------------|----------------------------------|
| <b>ACCESSORIES</b> |                                  |
| ACC-ARIA-SPK-06    | Bird Spikes 600mm length         |
| ACC-ARIA-GSH-06    | Glare Shield 600mm length        |
| ACC-ARIA-CBP-140   | Cable Protection to 2x600mm unit |

**ACC-ARIA-GSH-06** - Glare Shield 600mm length



**ACC-ARIA-CBP-140** - Cable Protection to 2x600mm unit



**CABLE EXTENSIONS**



|                                  |   |
|----------------------------------|---|
| CBL-PRJ-CBLKIT-MADA-LK-IP68-5M   | Cable Kit Mains & Data – Extension – IP68 – Leader + 5M Extension   |
| CBL-PRJ-CBLKIT-MADA-JK-IP68-5M   | Cable Kit Mains & Data – Joiner – IP68 – 5 Metre  |
| CBL-PRJ-CBLKIT-MADA-JK-IP68-0.6M | Cable Kit Mains & Data – Joiner – IP68 – 0.6 Metre<br>Kit Designed for connection of 1,200mm units end-to-end |
| CBL-PRJ-CBLKIT-MADA-TK-IP68      | Termination Kit Mains & Data – 2 CAPS   |

**CONTROLLERS**



|                                      |  |
|--------------------------------------|--|
| CTR-RDM PIXEL NEO-RJ45F-OC3_DMX-IP65 | DMX/RDM To Self Addressable Pixel<br>DMX Coolon Products Converter |
| CTR-casDMX                           | casDMX Casambi To 8CH DMX Converter                                |