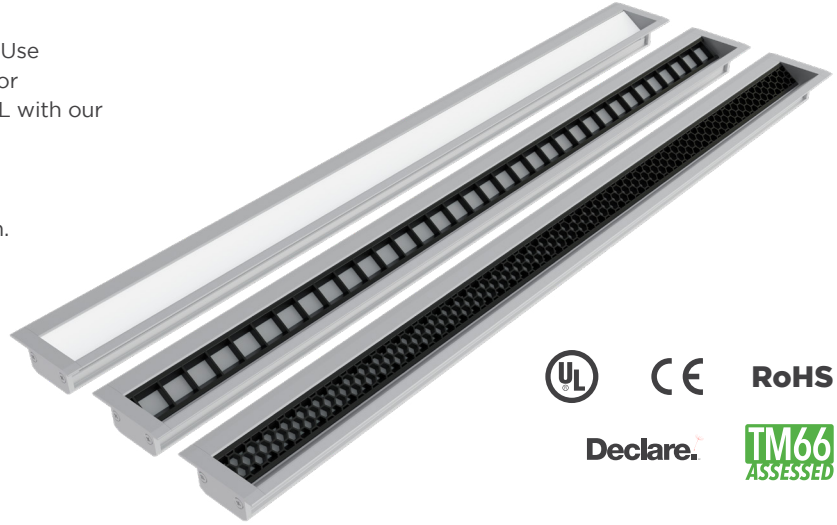


## AR15AL CHANNEL FIXTURE

AR15AL is a recessed angled aluminum channel extrusion. Use a milky lens or choose the frosted lens with a grille louver or honeycomb louver for enhanced glare control. Pair AR15AL with our RibbonLyte to create complete custom fixtures.

- Recessed angled profile
- Sold by the foot. Factory or field cuttable to any length.
- Milky lens with 82x110° beam angle
- Frosted lens with Grille or Honeycomb louver
- UGR (Grille louver): < 17.2  
UGR (Honeycomb louver): < 8.2  
(see chart for beam angle with louvers)
- Mount with Spring Clip



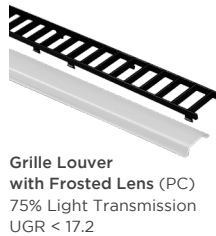
### HOUSING FINISHES



Silver Black\* White\*  
Standard

\*Additional fee applies

### LENS / LOUVER OPTIONS

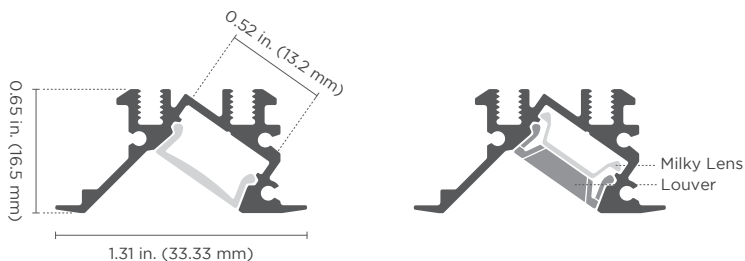


### AVAILABLE COLORS & COLOR TEMPERATURES



### DIMENSIONS

#### AR15AL Channel

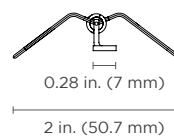


**Width:** 1.31 in. (33.33 mm)  
**Height:** 0.65 in. (16.5 mm)  
**Internal Width:** 0.52 in. (13.2 mm)

#### Spring Clip (included accessory)

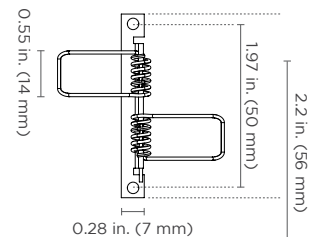
Material: stainless steel

##### Side View

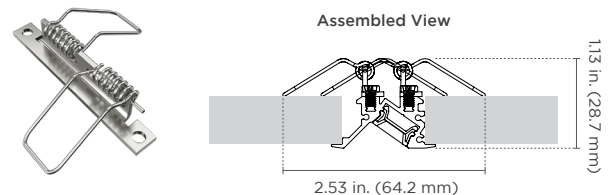


**Width:** 2 in. (50.7 mm)  
**Length:** 2.2 in. (56 mm)

##### Top View



##### Assembled View



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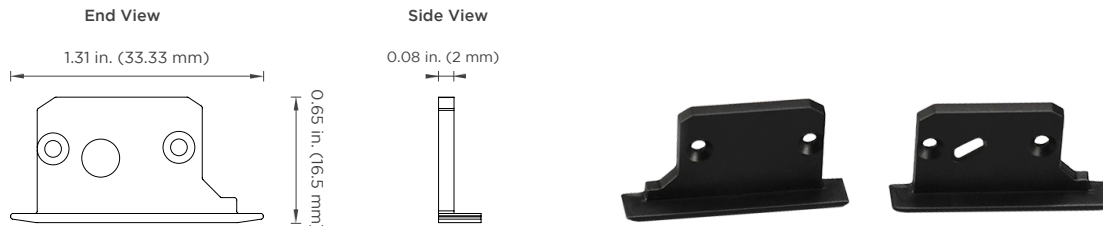
## SPECIFICATIONS

|                            |                                                                                                                                                                                                                                        |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Beam Angle                 | Milky Lens: 82x110°, Grille Louver with Frosted Lens: 70x80°, Honeycomb Louver with Frosted Lens: 48x54°                                                                                                                               |
| Lens / Louver Type         | Milky Lens (PC), Grille Louver with Frosted Lens (PC), Honeycomb Louver with Frosted Lens (PC)                                                                                                                                         |
| UGR (Unified Glare Rating) | UGR (Grille Louver) < 17.2, UGR (Honeycomb Louver) < 8.2                                                                                                                                                                               |
| Length                     | Channel is sold by the foot and cut to your exact desired length. Required amount of mounting clips included.                                                                                                                          |
| Operating Voltage          | 24 V                                                                                                                                                                                                                                   |
| Dimming                    | MLV / 0-10 Volt / ELV / DALI / DMX / CASAMBI                                                                                                                                                                                           |
| Operating Temperature      | -40 — 158 °F (-40 — 70 °C)                                                                                                                                                                                                             |
| Colors                     | 1800K, 2000K, 2200K, 2400K, 2700K, 3000K, 3500K, 4000K, 6000K, Red, Amber, Green, Blue, Pixel RGB, RGBW, RGBWW, RGBA, Variable White, Warm Dim (1800K, 2000K, 2200K, Pixel RGB only available in IP20)                                 |
| CRI                        | 90+ CRI (for Static White LEDs only)                                                                                                                                                                                                   |
| Lifetime (L70 reported)    | 50,000 hours                                                                                                                                                                                                                           |
| MacAdam ellipse (SDCM)     | 1-Step Binning (for Static White LEDs only)                                                                                                                                                                                            |
| Certifications             | UL Listed UL 2108 Issued: 2004/02/27 Ed: 1 Rev: 2014/02/24 Low Voltage Lighting Systems CSA C22.2#9.0 Issued: 1996/06/01 Ed: 1 (R2011) General Requirements for Luminaires; with Gen. Inst. 1: 1997, Gen Inst. 2: 1998. ROHS compliant |

## ACCESSORIES

### End Caps (included accessory)

Material: ABS



## STATIC WHITE SERIES 2 RIBBONLYTE SPECIFICATIONS, COMPATIBILITY & DELIVERED LUMEN OUTPUT

| RibbonLyte Type       | Wattage  | CCT   | Incremental Length | LED Pitch               | Max. Length (IP20) | A Delivered Lumen at 3000K with Milky Lens (PC) |      | Compatibility with AR15AL Channel |      |      |      | Diode Visibility<br>Visible = Y<br>Not Visible = N |
|-----------------------|----------|-------|--------------------|-------------------------|--------------------|-------------------------------------------------|------|-----------------------------------|------|------|------|----------------------------------------------------|
|                       |          |       |                    |                         |                    | lm/ft                                           | lm/m | IP20                              | IP65 | IP68 | IP69 |                                                    |
| Static White Series 2 | 3.0 W/ft | 3000K | 1.97 in. (50 mm)   | 48 LEDs/ft (160 LEDs/m) | 36 ft (11 m)       | 195                                             | 638  | ✓                                 | ✓    |      |      | Y                                                  |

Lumen Multiplier by CCT (Static White Series 2 RibbonLyte)

| CCT (3.0 W/ft) | 1800K | 2000K | 2200K | 2400K | 2700K | 3000K | 3500K | 4000K | 6000K |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| B Multiplier   | 0.67  | 0.79  | 0.85  | 0.91  | 0.97  | 1.00  | 1.03  | 1.00  | 1.08  |

A x B x C = Lumen Output

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Lumen Multiplier by Wattage (Static White Series 2 RibbonLyte)

| Wattage      | 0.75 w/ft | 1.5 w/ft | 2.2 w/ft | 3.0 w/ft | 4.4 w/ft | 5.0 w/ft | 6.0 w/ft |
|--------------|-----------|----------|----------|----------|----------|----------|----------|
| C Multiplier | 0.26      | 0.51     | 0.73     | 1.00     | 1.45     | 1.60     | 1.96     |

## ORDERING GUIDE

### STEP 1 Complete Channel Part Number

| CHANNEL                                                       | LENS / LOUVER                           | HOUSING COLOR         |
|---------------------------------------------------------------|-----------------------------------------|-----------------------|
| <b>CHAR15AL</b>                                               |                                         |                       |
| CHAR15AL - AR15AL Channel                                     | M - Milky Lens                          | SV - Silver (default) |
|                                                               | GF - Grille Louver with Frosted Lens    | BK - Black*           |
|                                                               | HF - Honeycomb Louver with Frosted Lens | WH - White*           |
| * Additional fee applies<br>Consult factory for custom colors |                                         |                       |

### STEP 2 Complete RibbonLyte Part Number

| CATEGORY        | CRI                                                           | RIBBON TYPE & IP RATING                                                                                                                                                                     |                                                                                                                                                             |                                                                                |
|-----------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>RB</b>       |                                                               |                                                                                                                                                                                             |                                                                                                                                                             |                                                                                |
| RB - RibbonLyte | 0 - Static Color, Color Changing<br>90 - 90+ CRI Static White | SWS220 - Static White Series 2 IP20<br>SWS265 - Static White Series 2 IP65<br>SCS220 - Static Color Series 2 IP20<br>SCS265 - Static Color Series 2 IP65<br>LINEA20 - Linea RibbonLyte IP20 | RGBADD - Pixel RGB IP20<br>RGBWW20 - RGBWW 5-in-1 IP20<br>RGBWS220 - RGBW Series 2 IP20<br>RGBAS220 - RGBA Series 2 IP20<br>XACTA20 - Xacta RibbonLyte IP20 | VWS220 - VW Series 2 IP20<br>VWS265 - VW Series 2 IP65<br>WD20 - Warm Dim IP20 |

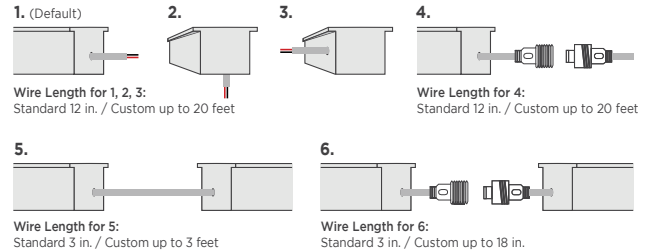
**NOTE:** To ensure waterproofing standards are met, IP65 RibbonLyte can NOT be cut in the field.

| WATTAGE                                                                    | COLOR      |
|----------------------------------------------------------------------------|------------|
| 0.75 - 0.75 W/ft (2.46 W/m - Static White, Static Color)                   | 18 - 1800K |
| 1.0 - 1.0 W/ft (3.3 W/m - Variable White)                                  | 20 - 2000K |
| 1.5 - 1.5 W/ft (4.9 W/m - Static White, Static Color)                      | 22 - 2200K |
| 2.2 - 2.2 W/ft (7.2 W/m - Static White, Static Color)                      | 24 - 2400K |
| 2.4 - 2.4 W/ft (8 W/m - Static White Linea)                                | 27 - 2700K |
| 3.0 - 3.0 W/ft (9.8 W/m - Static White, Static Color, Variable White)      | 30 - 3000K |
| 4.3 - 4.3 W/ft (14 W/m - Static White Linea)                               | 35 - 3500K |
| 4.4 - 4.4 W/ft (14.4 W/m - Static White, Static Color)                     | 40 - 4000K |
| 5.2 - 5.2 W/ft (17.1 W/m - Warm Dim)                                       | 60 - 6000K |
| 5.0 - 5.0 W/ft (16.4 W/m - Static White**, Static Color**)                 | R - Red    |
| 6.0 - 6.0 W/ft (19.7 W/m - Static White**, Static Color**, Variable White) | A - Amber  |
| 6.1 - 6.1 W/ft (20 W/m - Variable White Linea, Pixel RGB)                  | G - Green  |
| ** IP65 models are compatible only with Milky Lens option                  | B - Blue   |

#### CONNECTION OPTIONS (See diagrams on the right)

- |                                    |                                     |
|------------------------------------|-------------------------------------|
| 1 - End Feed Bare Wire Connection  | 4 - End Feed with IP67 Male Coupler |
| 2 - Back Feed Bare Wire Connection | 5 - Soldered Daisy Chain            |
| 3 - Side Feed Bare Wire Connection | 6 - Daisy Chain With IP67 Couplers  |

#### Custom Length (ft.)



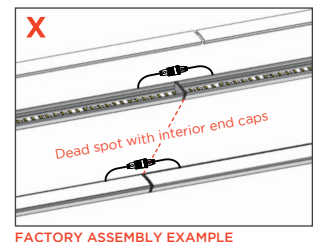
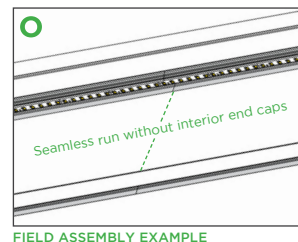
### STEP 3 Complete Assembly Option & Length

| ASSEMBLY OPTION                                                      | LENGTH (Standard factory assembled length up to 6 ft 6.7 in. / 2 m) |
|----------------------------------------------------------------------|---------------------------------------------------------------------|
| FI - Field Assembly                                                  |                                                                     |
| FA - Factory Assembly*** (not recommended for exterior applications) |                                                                     |

\*\*\* Factory assembled runs exceeding 6 ft 6.7 in. (2 m) will be split into multiple daisy chained fixtures.

#### DO NOT BUTT END CAPS AGAINST EACH OTHER WHEN CREATING LONGER FIXTURES

Acolyte STRONGLY SUGGESTS field assembly (without using interior end caps) for direct-view fixtures of more than 6 ft 6.7 in. (2 m) in length. Field assembly without interior end caps will eliminate gaps or dead spots that can be caused by butting interior end caps against each other.



AVAILABLE DRIVERS / CONTROLLERS AND DIMMING OPTIONS / WIRE GAUGE CHART

| 0-10V/ELV/MLV 3-IN-1                                                                                                                                                                                                                      | ELV                                                                                                                                                                   | 0-10V VW/WD                                                                                                                                         | COMPACT                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                           |                                                                                      |                                                                    |                                                                                       |
| <b>60W, 96W, 288W 0-10V/ELV/MLV 3-in-1 Dimmable Drivers</b><br><br>Part No.:<br>• DRVW2460TRI010 (60 W)<br>• DRVW2496TRI010 (96 W)<br>• DRVW24288TRI010 (288 W)<br><br>24 VDC<br>120-277 VAC<br>IP65, dry/damp/wet locations<br>UL Listed | <b>60W Dimmable Driver</b><br><br>Part No.:<br>• DRVW2460ELV<br><br>24 VDC<br>100-130 VAC<br>Fits in single-gang switch boxes<br>IP20, dry locations<br>UL Recognized | <b>0-10V Dimmable 90W VW/WD Driver</b><br><br>Part No.:<br>• DRVRFWDVW2490120<br><br>24 VDC<br>100-277 VAC<br>IP23, dry/damp locations<br>UL Listed | <b>60W, 96W Non-Dimming Compact Drivers</b><br><br>Part No.:<br>• DRV2460C (60 W)<br>• DRV2496C (96 W)<br><br>24 VDC<br>120-277 VAC<br>IP20, dry locations<br>UL Class P |

| ATHENA WIRELESS COMPATIBLE                                                                                                                                                                | CASAMBI COMPATIBLE DRIVERS                                                                                                                                                                                                                     | DIMMABLE DALI-2 DRIVERS                                                                                                                                                                                                         | DIMMABLE DALI-2 DRIVERS                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                           |                                                                                                                                                               |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                        |
| <b>94W Athena Wireless Compatible Drivers</b><br><br>Part No.:<br>• DRVW2494ATH1CH (1 channel)<br>• DRVW2494ATH2CH (2 channel)<br><br>24 VDC<br>100-277 VAC<br>Dry locations<br>UL Listed | <b>100W &amp; 200W Casambi Compatible 4 Channel Drivers</b><br><br>Part No.:<br>• DRVW24100CAS4CH (100 W)<br>• DRVW24200CAS4CH (200 W)<br><br>24 VDC<br>100-277 VAC<br>IP66, dry/damp/wet locations<br>UL Listed, CE, RoHS, Bluetooth, CASAMBI | <b>96W DIMMABLE DALI-2 DT6 D4I &amp; DALI-2 DT8 D4I DRIVERS</b><br><br>Part No.:<br>• DRVW2496DALI1CH (1 channel)<br>• DRVW2496DALI2CH (2 channel)<br><br>24-26 VDC<br>120-277 VAC<br>IP67, dry/damp/wet locations<br>UL Listed | <b>75W, 150W, 240W DALI-2 Dimmable Drivers</b><br><br>Part No.:<br>• DRVW2475DALI1CH (75 W, 1 channel)<br>• DRVW24150DALI1CH (150 W, 1 channel)<br>• DRVW24240DALI1CH (240 W, 1 channel)<br>• DRV24150DALI2CH (150 W, 2 channels)<br>• DRV24150DALI4CH (150 W, 4 channels)<br><br>24 VDC<br>120-277 VAC<br>IP67, damp/wet locations (1-channel drivers only)<br>IP20, dry location (2-channel & 4-channel drivers only)<br>CE, RoHS, SELV |

DMX CONTROLLERS, VARIABLE WHITE DIMMER, WARM DIM DIMMER - FOR COLOR CHANGING FIXTURES

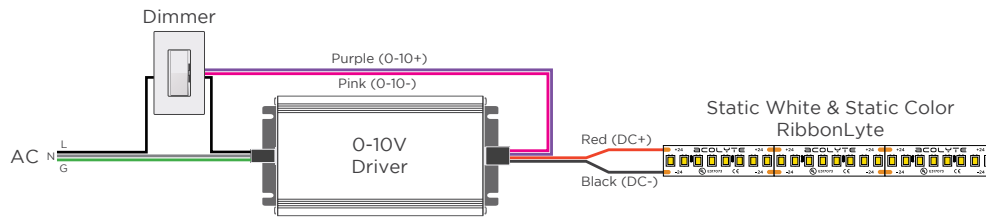
|                                                                                         |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|      |  |  |  |  |
| <b>GLASS TOUCH WALL CONTROLLERS</b><br>Part No.:<br>• AWCRCBWWBK<br>• AWCVWBK           | <b>1 ZONE WALL CONTROLLER</b><br>Part No.: DMXCTRLG                                 | <b>5 ZONE WALL CONTROLLER</b><br>Part No.: DMXCTRL                                  | <b>10 ZONE WALL CONTROLLER</b><br>Part No.: DMXCTRLD                                 | <b>6 UNIVERSE DMX CONTROLLER</b><br>Part No.: DMXCTRLDR6U                             |
|       |  |  |  |  |
| <b>VARIABLE WHITE DIMMER</b><br>Part No.:<br>• RFDIMVWWH (White)<br>• RFDIMVWBK (Black) | <b>WARM DIM DIMMER</b><br>Part No.:<br>• RFDIMVDWH (White)<br>• RFDIMWDBK (Black)   | <b>4 CHANNEL WATERPROOF DMX INTERFACE</b><br>Part No.: DMXINFWLC4D                  | <b>5 CHANNEL DMX DECODER</b><br>Part No.: DMXINF5                                    | <b>DMX OPTO SPLITTER</b><br>Part No.: DMXOS8                                          |

DRIVER AND RIBBONLYTE AT FULL LOAD

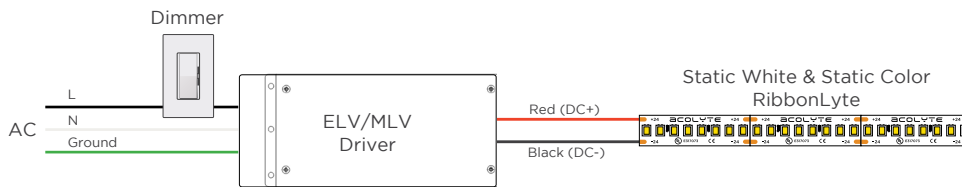
| Wattages                      | 30   |        | 60   |        | 96   |        | 150  |        | 200  |        | 240  |        | 300  |        | 320  |        |
|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| Wire Gauge                    | Feet | Meters | Feet | Meters | Feet | Meters | Feet | Meters | Feet | Meters | Feet | Meters | Feet | Meters | Feet | Meters |
| 24 AWG / 0.25 mm <sup>2</sup> | 14   | 4.27   | 9    | 2.74   | 5.5  | 1.68   | 3.75 | 1.14   | 2.75 | 0.84   | 2.25 | 0.69   | 1.75 | 0.53   | 1.75 | 0.53   |
| 22 AWG / 0.34 mm <sup>2</sup> | 22   | 6.71   | 14   | 4.27   | 9    | 2.74   | 5.75 | 1.75   | 4.5  | 1.37   | 3.5  | 1.07   | 2.75 | 0.84   | 2.75 | 0.84   |
| 20 AWG / 0.5 mm <sup>2</sup>  | 35   | 10.67  | 23   | 7.01   | 14   | 4.27   | 9    | 2.74   | 7    | 2.13   | 5.75 | 1.75   | 4.5  | 1.37   | 4.25 | 1.30   |
| 18 AWG / 0.75 mm <sup>2</sup> | 56   | 17.07  | 37   | 11.28  | 23   | 7.01   | 15   | 4.57   | 11   | 3.35   | 9    | 2.74   | 7.5  | 2.29   | 7    | 2.13   |
| 16 AWG / 1.5 mm <sup>2</sup>  | 90   | 27.44  | 60   | 18.29  | 37   | 11.28  | 24   | 7.32   | 18   | 5.49   | 15   | 4.57   | 12   | 3.66   | 11   | 3.35   |
| 14 AWG / 2.5 mm <sup>2</sup>  | 142  | 43.29  | 95   | 28.96  | 59   | 17.99  | 38   | 11.59  | 28   | 8.54   | 23   | 7.01   | 19   | 5.79   | 17   | 5.18   |
| 12 AWG / 4 mm <sup>2</sup>    | 226  | 68.90  | 151  | 46.04  | 94   | 28.66  | 60   | 18.29  | 45   | 13.72  | 37   | 11.28  | 30   | 9.15   | 28   | 8.54   |
| 10 AWG / 6 mm <sup>2</sup>    | 360  | 109.76 | 240  | 73.17  | 150  | 45.73  | 96   | 29.27  | 72   | 21.95  | 60   | 18.29  | 48   | 14.63  | 45   | 13.72  |
| 8 AWG / 10 mm <sup>2</sup>    | 574  | 175.00 | 381  | 116.16 | 239  | 72.87  | 153  | 46.65  | 115  | 35.06  | 95   | 28.96  | 76   | 23.17  | 71   | 21.65  |

WIRING DIAGRAMS - STATIC WHITE / STATIC COLOR / RGBW / RGBA / RGBWW

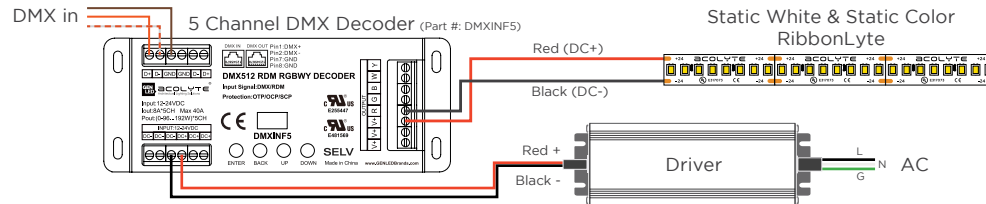
0-10 V



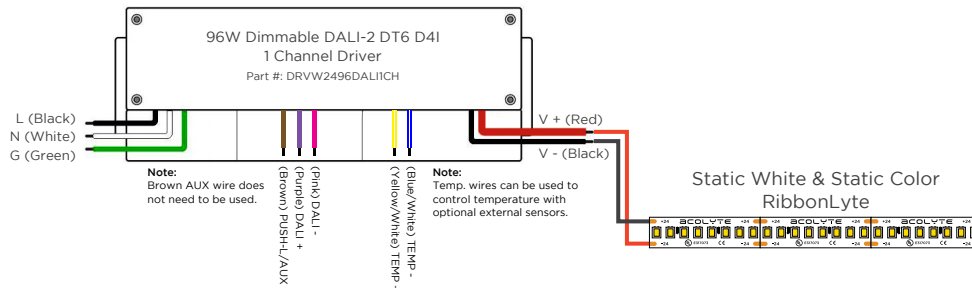
MLV / ELV



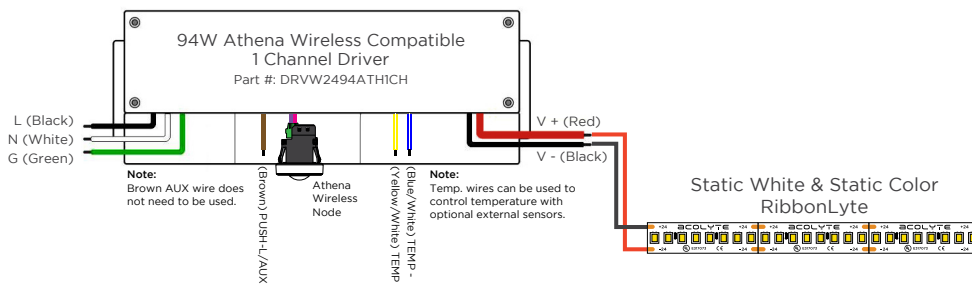
DMX WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



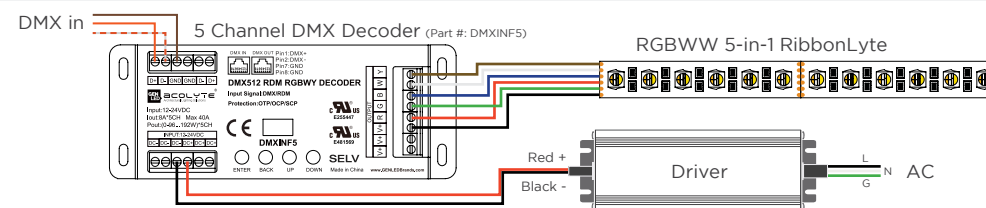
DALI-2 WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



STATIC WHITE & STATIC COLOR RIBBONLYTE WIRING WITH ATHENA WIRELESS COMPATIBLE DRIVER



DMX WITH RGBWW 5-IN-1 RIBBONLYTE



WIRE COLORS PER RIBBONLYTE COLOR

STATIC WHITE + STATIC COLOR

Red Wire (+) Positive  
Black Wire (-) Negative

RGBW + RGBA

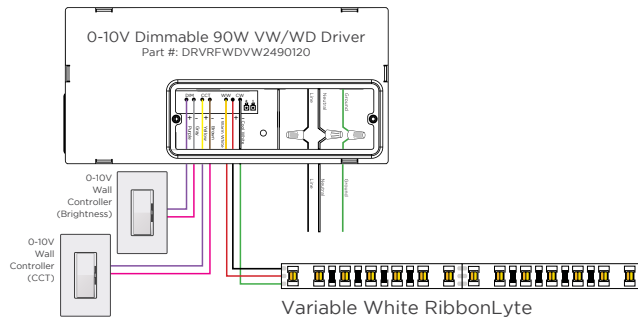
Black Wire (+) Positive  
Green Wire (-) goes to Green Channel  
Red Wire (-) goes to Red Channel  
Blue Wire (-) goes to Blue Channel  
White Wire (-) goes to White Channel

RGBWW

Black (+) Positive  
Green Wire (-) goes to Green Channel  
Red Wire (-) goes to Red Channel  
Blue Wire (-) goes to Blue Channel  
White Wire (-) goes to White Channel 1  
Brown Wire (-) goes to White Channel 2

## WIRING DIAGRAMS - VARIABLE WHITE

### 2-CHANNEL VARIABLE WHITE DIMMING



### WIRE COLORS PER RIBBONLYTE COLOR

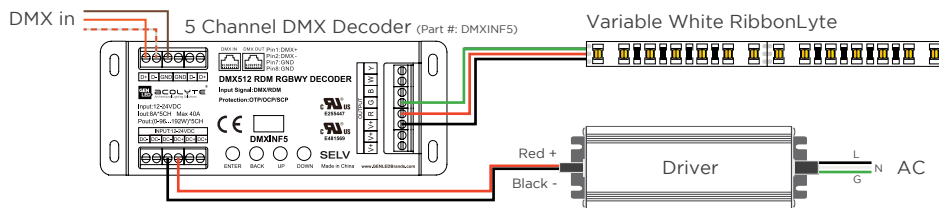
#### VARIABLE WHITE

Black Wire (+) Positive

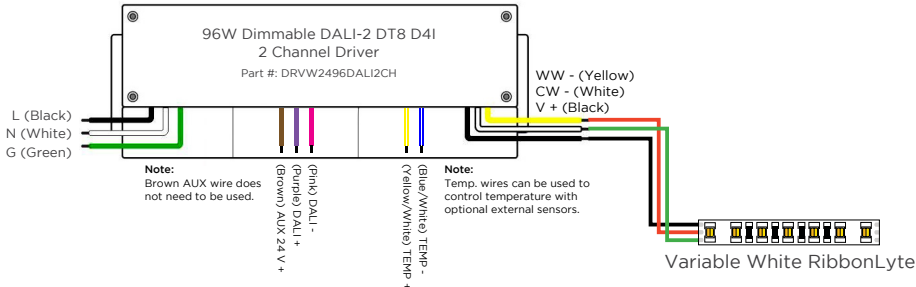
Red Wire (-) goes to Warm White Channel

Green Wire (-) goes to Cool White Channel

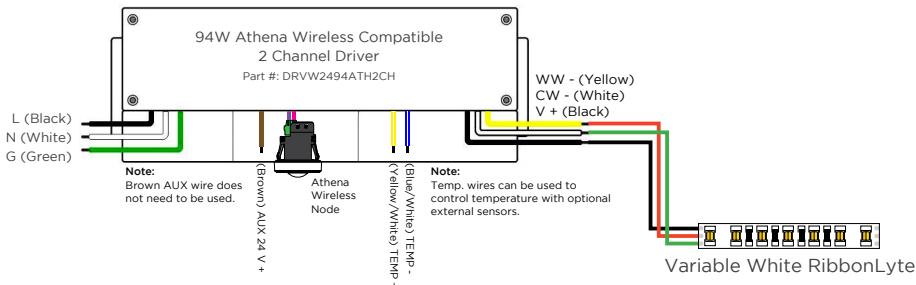
### DMX WIRING WITH VARIABLE WHITE RIBBONLYTE



### DALI-2 WIRING WITH VARIABLE WHITE RIBBONLYTE



### VARIABLE WHITE RIBBONLYTE WIRING WITH ATHENA WIRELESS COMPATIBLE DRIVER



REV.30JUN2026

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