

AR24R CHANNEL FIXTURE

AR24R channel is a recessed aluminum fixture with a set-back lens and angled inset for glare reduction. Mount with spring clip. Design custom recessed fixtures with AR24R channel and our RibbonLyte products.

- Recessed fixture with set-back lens
- Available for field assembly or factory assembly
- Beam angle for Milky lens (PC): 68x105°
- Clear, Frosted, Milky (PMMA), Milky (PC) or Black lens



HOUSING FINISHES



Silver Standard Black* Custom RAL*

*Additional fee applies



RoHS

Declare.



AVAILABLE LENS FINISHES



Clear Lens (PMMA)
90% Light Transmission



Frosted Lens (PMMA)
82% Light Transmission



Milky Lens (PMMA)
77% Light Transmission



Milky Lens (PC)
78% Light Transmission



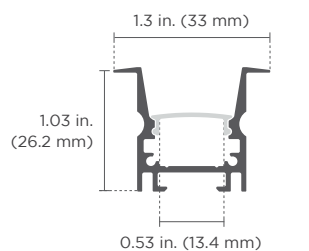
Black Lens (PC)
30% Light Transmission

AVAILABLE COLORS & COLOR TEMPERATURES



DIMENSIONS

AR24R Channel

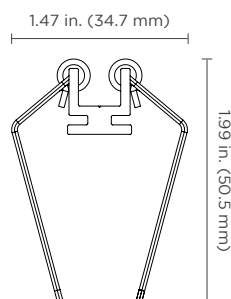


Width: 1.3 in. (33 mm)
Height: 1.03 in. (26.2 mm)
Internal Width: 0.53 in. (13.4 mm)

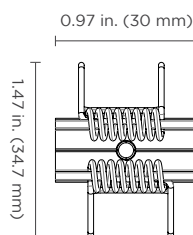
Spring Clip

Material: stainless steel

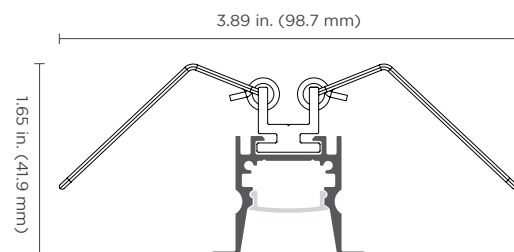
Side View



Top View



Assembled View



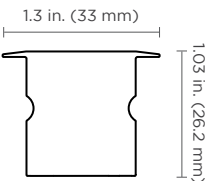
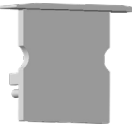
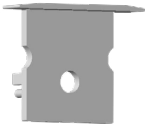
NOTE:

1. Exterior channel applications should be securely attached to the mounting surface with appropriate screws and/or liquid nails.
2. Acolyte strongly recommends field assembly for exterior applications.

SPECIFICATIONS

Beam Angle	Milky Lens (PMMA): 80x115°, Milky Lens (PC): 68x105°
Lens Type	Clear Lens (PMMA), Frosted Lens (PMMA), Milky Lens (PMMA), Milky Lens (PC), Black Lens (PC)
Length	Channel is sold by the foot and cut to your exact desired length
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 Cap without Hole (Part #: CHAR24REC�H) End Cap with Hole (Part #: CHAR24RECH)	180° Connector (Part #: CHAR24R180)	90° Connector (Part #: CHAR24R90)	90° Vertical Connector (Part #: CHAR24R90V)
Material: ABS	Material: stainless steel	Material: stainless steel	Material: stainless steel
  			

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 AR24R Channel				Diode Visibility Visible = Y 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)	160	526	✓	✓	✓	✓	N

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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ORDERING GUIDE

STEP 1 Complete Channel Part Number

CHANNEL	LENS	HOUSING COLOR
CHAR24R		
CHAR24R - AR24R Channel	C - Clear Lens* F - Frosted Lens PMMA - Milky Lens (PMMA)	PCM - Milky Lens (PC) B - Black Lens * Clear lens is the default option if not specified.
		SV - Silver (default) BK - Black ** ** Additional fee applies Consult factory for custom colors

STEP 2 Complete RibbonLyte Part Number

CATEGORY	CRI	RIBBON TYPE & IP RATING
RB		
RB - RibbonLyte	0 - Static Color, Color Changing 90 - 90+ CRI Static White	SWS220 - Static White Series 2 IP20 SWS265 - Static White Series 2 IP65 SWS269 - Static White Series 2 IP69 SCS220 - Static Color Series 2 IP20 SCS265 - Static Color Series 2 IP65 SCS269 - Static Color Series 2 IP69 LINEA20 - Linea RibbonLyte IP20
		RGBWW20 - RGBWW 5-in-1 IP20 RGBWS220 - RGBW Series 2 IP20 RGBWS265 - RGBW Series 2 IP65 VWS220 - VW Series 2 IP20 VWS265 - VW Series 2 IP65 VWS268 - VW Series 2 IP68 VWS269 - VW Series 2 IP69
		RGBADD - Pixel RGB IP20 WD20 - Warm Dim IP20 WD65 - Warm Dim IP65 WD69 - Warm Dim IP69 XACTA20 - Xacta RibbonLyte IP20

NOTE: To ensure waterproofing standards are met, IP65/IP68/IP69 RibbonLyte can NOT be cut in the field.

WATTAGE

0.75 - 0.75 W/ft (2.46 W/m - Static White, Static Color)
 1.0 - 1.0 W/ft (3.3 W/m - Variable White)
 1.5 - 1.5 W/ft (4.9 W/m - Static White, Static Color)
 2.2 - 2.2 W/ft (7.2 W/m - Static White, Static Color)
 2.4 - 2.4 W/ft (8 W/m - Static White Linea)
 3.0 - 3.0 W/ft (9.8 W/m - Static White, Static Color, Variable White)
 4.3 - 4.3 W/ft (14 W/m - Static White Linea)
 4.4 - 4.4 W/ft (14.4 W/m - Static White, Static Color, RGBW, RGBWW, RGBA)
 5.2 - 5.2 W/ft (17.1 W/m - Warm Dim)
 5.0 - 5.0 W/ft (16.4 W/m - Static White, Static Color)
 5.5 - 5.5 W/ft (18.0 W/m - RGBW, RGBA)
 6.0 - 6.0 W/ft (19.7 W/m - Static White, Static Color, Variable White, Addressable RGBW)
 6.1 - 6.1 W/ft (20 W/m - Variable White Linea, Pixel RGB)
 8.8 - 8.8 W/ft (28.86 W/m - RGBW, RGBWW)

COLOR

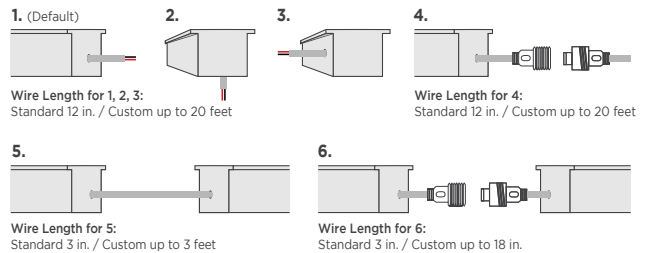
18 - 1800K
 20 - 2000K
 22 - 2200K
 24 - 2400K
 27 - 2700K
 30 - 3000K
 35 - 3500K
 40 - 4000K
 60 - 6000K
 R - Red
 A - Amber
 G - Green
 B - Blue

VW - Variable White 2000K-6500K
 VW1833 - Variable White 1800K-3300K (IP20)
 RGB27 - Red, Green, Blue + 2700K
 RGB30 - Red, Green, Blue + 3000K
 RGB40 - Red, Green, Blue + 4000K
 RGB2465 - Red, Green, Blue + 2400K + 6500K
 RGBA - Red, Green, Blue + Amber
 RGBS - Pixel RGB (SPI)
 2920 - Warm Dim 2900K-2000K (IP20)
 1830 - Warm Dim 3000K-1800K (IP20)
 2721 - Warm Dim 2700K-2100K (IP65/IP69)
 Z - Undecided (For quotes only. Must be chosen before final order.)

CONNECTION OPTIONS (See diagrams on the right)

Custom Length (ft.)

- | | |
|------------------------------------|-------------------------------------|
| 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 |



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)

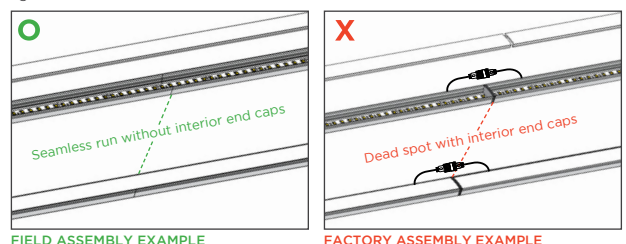
*** Factory assembled runs exceeding 6 ft 6.7 in. (2 m) will be split into multiple daisy chained fixtures.

STEP 4 Add Accessories

ACCESSORIES

- | | |
|-----------------------------|-------------------------------------|
| CHAR24RSC - Spring Clip | CHAR24R90 - 90° Connector |
| CHAR24R180 - 180° Connector | CHAR24R90V - 90° Vertical Connector |

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

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

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

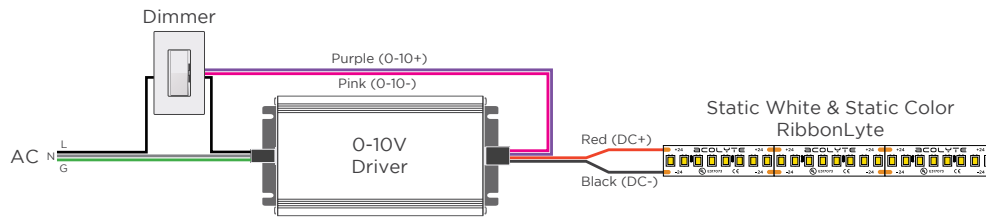
				
GLASS TOUCH WALL CONTROLLERS Part No.: • AWCRCBWWBK • AWCWBK	1 ZONE WALL CONTROLLER Part No.: DMXCTRLG	5 ZONE WALL CONTROLLER Part No.: DMXCTRL	10 ZONE WALL CONTROLLER Part No.: DMXCTRLD	6 UNIVERSE DMX CONTROLLER Part No.: DMXCTRLDR6U
				
VARIABLE WHITE DIMMER Part No.: • RFDIMVWWH (White) • RFDIMVWBK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

DRIVER AND RIBBONLYTE AT FULL LOAD

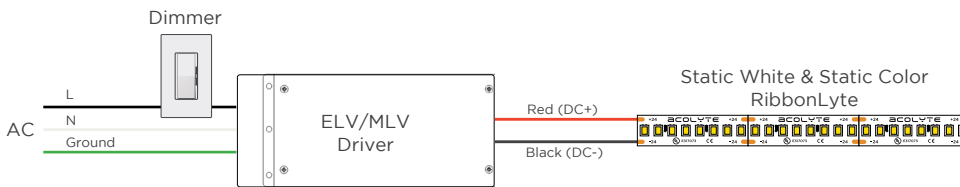
Wattages	30		60		96		150		200		240		300		320	
Wire Gauge	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
24 AWG / 0.25 mm ²	14	4.27	9	2.74	5.5	1.68	3.75	1.14	2.75	0.84	2.25	0.69	1.75	0.53	1.75	0.53
22 AWG / 0.34 mm ²	22	6.71	14	4.27	9	2.74	5.75	1.75	4.5	1.37	3.5	1.07	2.75	0.84	2.75	0.84
20 AWG / 0.5 mm ²	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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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

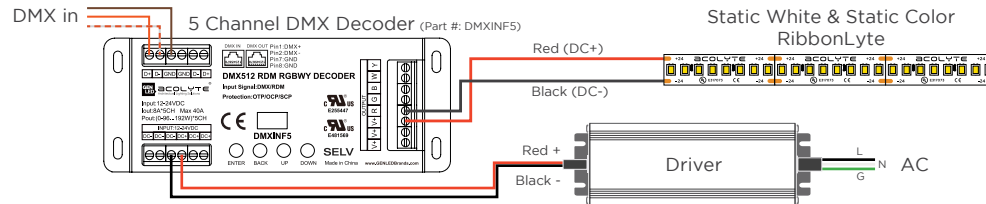
0-10 V



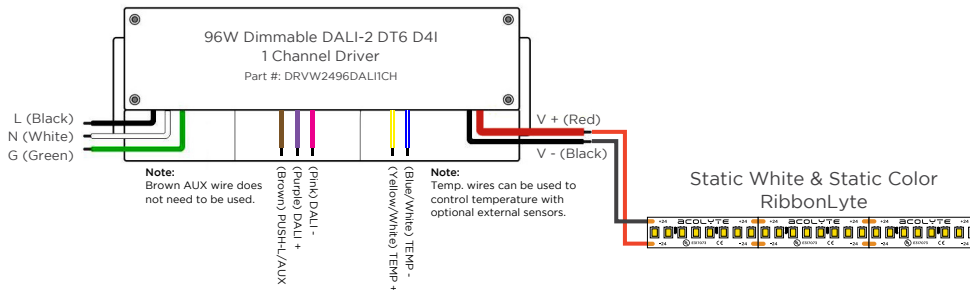
MLV / ELV



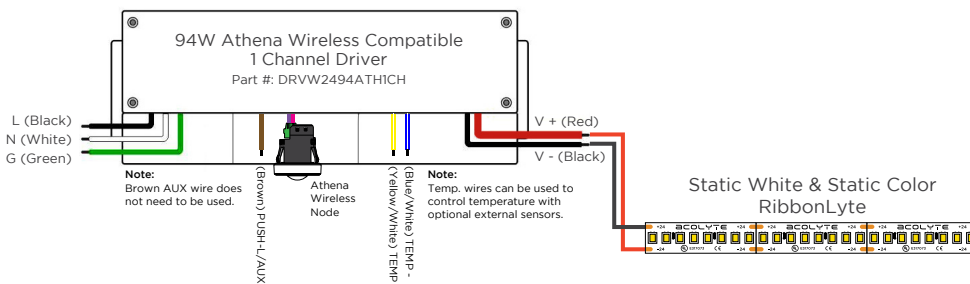
DMX WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



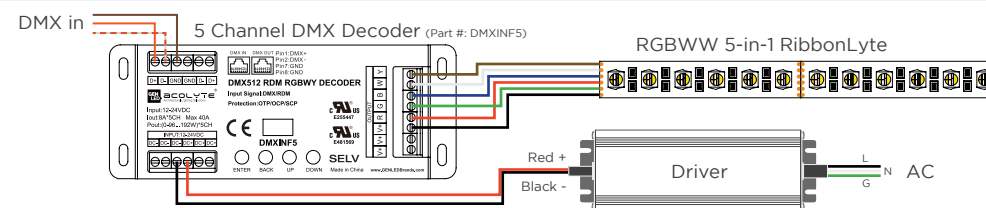
DALI-2 WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



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

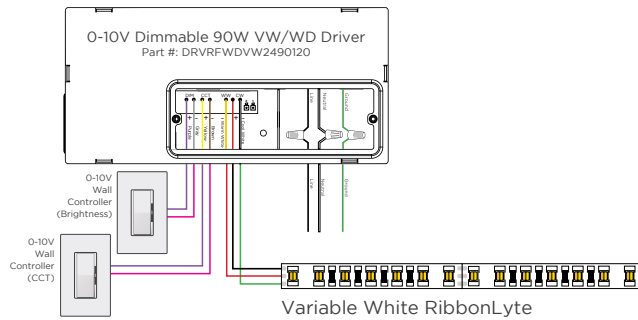
Black Wire (+) Positive
Green Wire (-) goes to Green Channel
Red Wire (-) goes to Red Channel
Blue Wire (-) goes to Blue Channel
White Wire (-) goes to White Channel

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

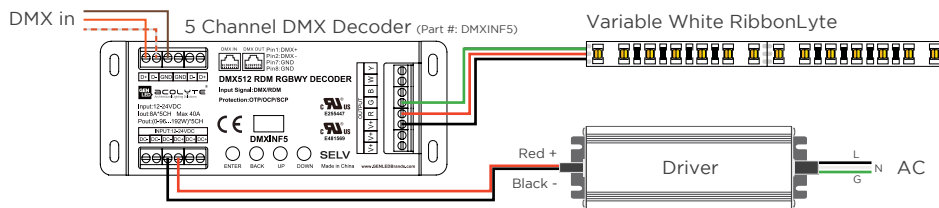


WIRE COLORS PER RIBBONLYTE COLOR

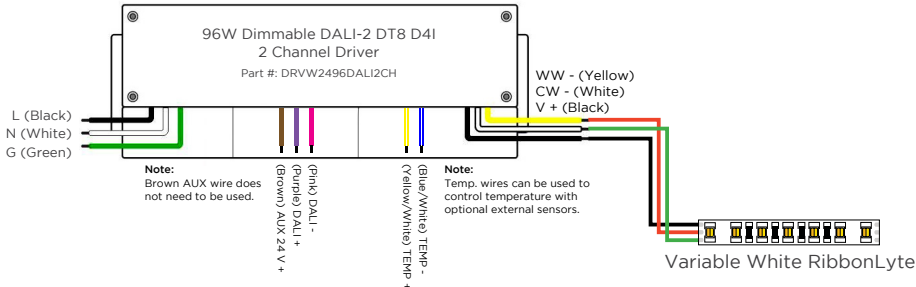
VARIABLE WHITE

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

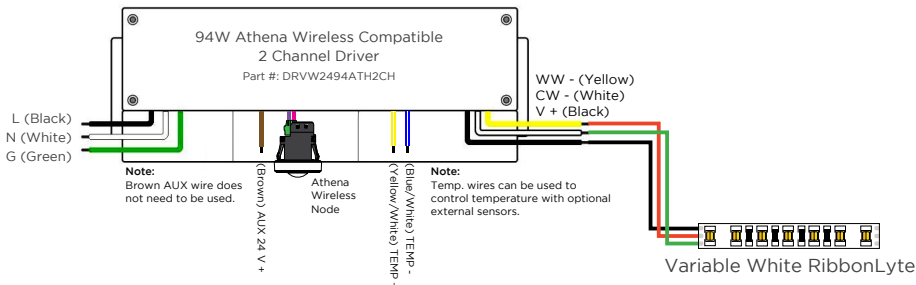
DMX WIRING WITH VARIABLE WHITE RIBBONLYTE



DALI-2 WIRING WITH VARIABLE WHITE RIBBONLYTE



VARIABLE WHITE RIBBONLYTE WIRING WITH ATHENA WIRELESS COMPATIBLE DRIVER



REV.30JUN2026

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