GEN LED acolyte®
Architectural Lighting Solutions

Date | Project

Notes

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

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

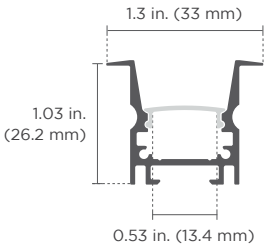
Note: Roll lens (up to 20 m) available upon request

AVAILABLE COLORS & COLOR TEMPERATURES



DIMENSIONS

AR24R Channel

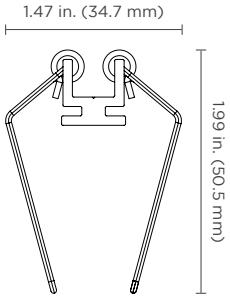


Width: 1.3 in. (33 mm)
Height: 1.03 in. (26.2 mm)
Internal Width: 0.53 in. (13.4 mm)

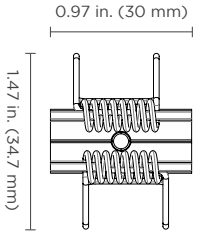
Spring Clip

Material: stainless steel

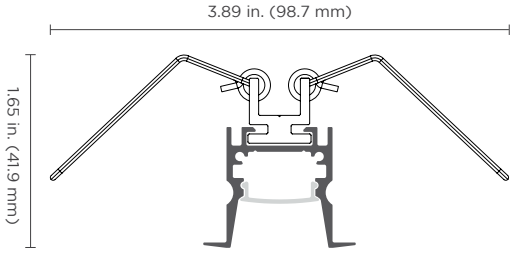
Side View



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.

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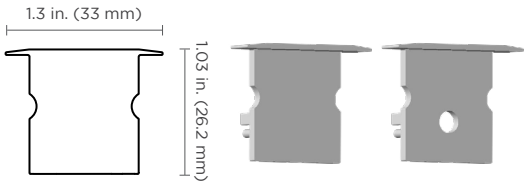
SPECIFICATIONS

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 Luminaries; with Gen. Inst. 1: 1997, Gen Inst. 2: 1998. ROHS compliant

ACCESSORIES

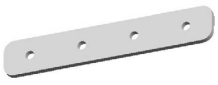
End Cap without Hole (Part #: CHAR24RECNH)
End Cap with Hole (Part #: CHAR24RECH)

Material: ABS



180° Connector
(Part #: CHAR24R180)

Material: stainless steel



90° Connector
(Part #: CHAR24R90)

Material: stainless steel



90° Vertical Connector
(Part #: CHAR24R90V)

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
						lm/ft	lm/m	IP20	IP65	IP68	IP69	Visible = Y Not Visible = N
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

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

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*	**PCM** - Milky Lens (PC)	**SV** - Silver (default)
	F - Frosted Lens	**B** - Black Lens	**BK** - Black
	PMMAM - Milky Lens (PMMA)	* Clear lens is the default option if not specified.	Consult factory for custom colors (additional fee applies)

STEP 2 Complete RibbonLyte Part Number

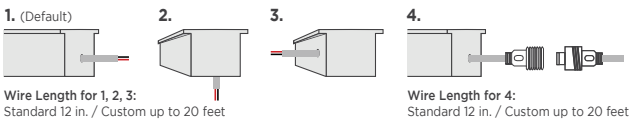
CATEGORY	CRI	RIBBON TYPE & IP RATING		
RB				
RB - RibbonLyte	**0** - Static Color, Color Changing	**SWS220** - Static White Series 2 IP20	**RGBWW20** - RGBWW 5-in-1 IP20	**RGBADD** - Pixel RGB IP20
	90 - 90+ CRI Static White	**SWS265** - Static White Series 2 IP65	**RGBWS220** - RGBW Series 2 IP20	**WD20** - Warm Dim IP20
		SWS269 - Static White Series 2 IP69	**RGBWS265** - RGBW Series 2 IP65	**WD65** - Warm Dim IP65
		SCS220 - Static Color Series 2 IP20	**VWS220** - VW Series 2 IP20	**WD69** - Warm Dim IP69
		SCS265 - Static Color Series 2 IP65	**VWS265** - VW Series 2 IP65	**XACTA20** - Xacta RibbonLyte IP20
		SCS269 - Static Color Series 2 IP69	**VWS268** - VW Series 2 IP68	
NOTE: To ensure waterproofing standards are met, IP65/IP68/IP69 RibbonLyte can NOT be cut in the field.		**LINEA20** - Linea RibbonLyte IP20	**VWS269** - VW Series 2 IP69	

WATTAGE	COLOR	
0.75 - 0.75 W/ft (2.46 W/m - Static White, Static Color)	**18** - 1800K	**VW** - Variable White 2000K-6500K
1.0 - 1.0 W/ft (3.3 W/m - Variable White)	**20** - 2000K	**VW1833** - Variable White 1800K-3300K (IP20)
1.5 - 1.5 W/ft (4.9 W/m - Static White, Static Color)	**22** - 2200K	**RGB27** - Red, Green, Blue + 2700K
2.2 - 2.2 W/ft (7.2 W/m - Static White, Static Color)	**24** - 2400K	**RGB30** - Red, Green, Blue + 3000K
2.4 - 2.4 W/ft (8 W/m - Static White Linea)	**27** - 2700K	**RGB40** - Red, Green, Blue + 4000K
3.0 - 3.0 W/ft (9.8 W/m - Static White, Static Color, Variable White)	**30** - 3000K	**RGB2465** - Red, Green, Blue + 2400K + 6500K
4.3 - 4.3 W/ft (14 W/m - Static White Linea)	**35** - 3500K	**RGBA** - Red, Green, Blue + Amber
4.4 - 4.4 W/ft (14.4 W/m - Static White, Static Color, RGBW, RGBWW, RGBA)	**40** - 4000K	**RGBS** - Pixel RGB (SPI)
5.2 - 5.2 W/ft (17.1 W/m - Warm Dim)	**60** - 6000K	**2920** - Warm Dim 2900K-2000K (IP20)
5.0 - 5.0 W/ft (16.4 W/m - Static White, Static Color)	**R** - Red	**1830** - Warm Dim 3000K-1800K (IP20)
5.5 - 5.5 W/ft (18.0 W/m - RGBW, RGBA)	**A** - Amber	**2721** - Warm Dim 2700K-2100K (IP65/IP69)
6.0 - 6.0 W/ft (19.7 W/m - Static White, Static Color, Variable White, Addressable RGBW)	**G** - Green	**Z** - Undecided (For quotes only. Must be chosen before final order.)
6.1 - 6.1 W/ft (20 W/m - Variable White Linea, Pixel RGB)	**B** - Blue	
8.8 - 8.8 W/ft (28.86 W/m - RGBW, RGBWW)		

CONNECTION OPTIONS (See diagrams on the right)

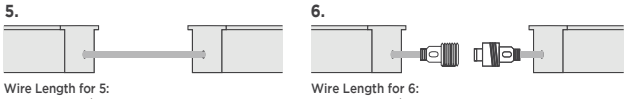
Custom Length (ft.)

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



Wire Length for 1, 2, 3:
Standard 12 in. / Custom up to 20 feet

Wire Length for 4:
Standard 12 in. / Custom up to 20 feet



Wire Length for 5:
Standard 3 in. / Custom up to 3 feet

Wire Length for 6:
Standard 3 in. / Custom up to 18 in.

STEP 3 Complete Assembly Option & Length

ASSEMBLY OPTION

LENGTH (Standard factory assembled length up to 6 ft 6.7 in. / 2 m)

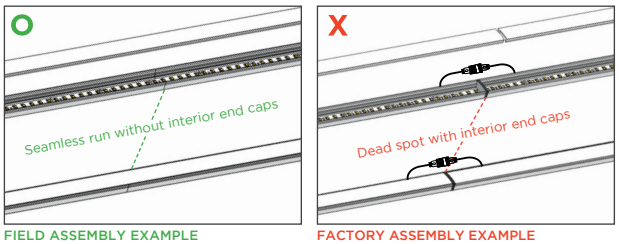
FI - Field Assembly

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.



FIELD ASSEMBLY EXAMPLE

FACTORY ASSEMBLY EXAMPLE

STEP 4 Add Accessories

ACCESSORIES

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

AVAILABLE DRIVERS / CONTROLLERS AND DIMMING OPTIONS / WIRE GAUGE CHART

0-10V/ELV/MLV 3-IN-1



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

ELV



60W Dimmable Driver

Part No.:
- DRVW2460ELV

24 VDC
100-130 VAC
Fits in single-gang switch boxes
IP20, dry locations
UL Recognized

0-10V VW/WD



0-10V Dimmable 96W VW/WD Driver

Part No.:
- DRVW2496VWWD

24 VDC
100-277 VAC
UL wet-rated, dry/damp/wet locations
UL Listed

COMPACT



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



94W Athena Wireless Compatible Drivers

Part No.:
- DRVW2494ATH1CH (1 channel)
- DRVW2494ATH2CH (2 channel)

24 VDC
100-277 VAC
Dry locations
UL Listed

CASAMBI COMPATIBLE DRIVERS



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

DIMMABLE DALI-2 DRIVERS



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

DIMMABLE DALI-2 DRIVERS



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.:
- AWCRGBWWBK
- AWCVWBK



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.:
- RFDIMWDWH (White)
- RFDIMWDBK (Black)



4 CHANNEL WATERPROOF DMX INTERFACE
Part No.: DMXINFWLCD4



5 CHANNEL DMX DECODER
Part No.: DMXINF5



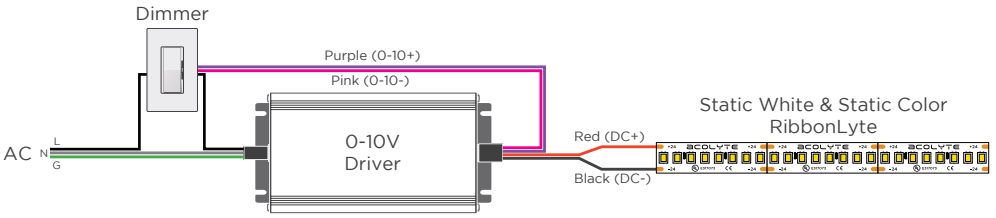
DMX OPTO SPLITTER
Part No.: DMXOS8

DRIVER AND RIBBONLYTE AT FULL LOAD

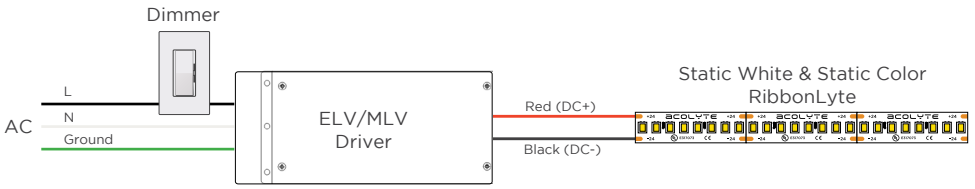
Wattages	30		60		96		150		200		240		300		320	
Wire Gauge	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
24 AWG / 0.25 mm²	14	4.27	9	2.74	5.5	1.68	3.75	1.14	2.75	0.84	2.25	0.69	1.75	0.53	1.75	0.53
22 AWG / 0.34 mm²	22	6.71	14	4.27	9	2.74	5.75	1.75	4.5	1.37	3.5	1.07	2.75	0.84	2.75	0.84
20 AWG / 0.5 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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 mm²	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

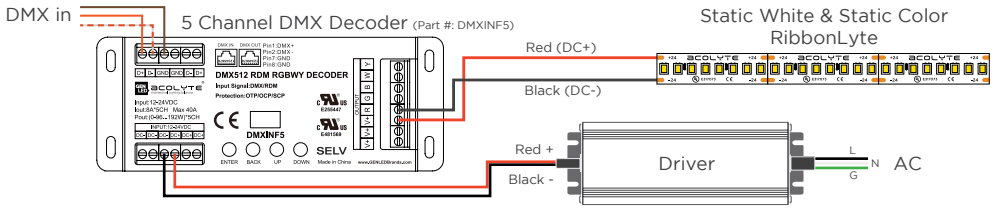
0-10 V



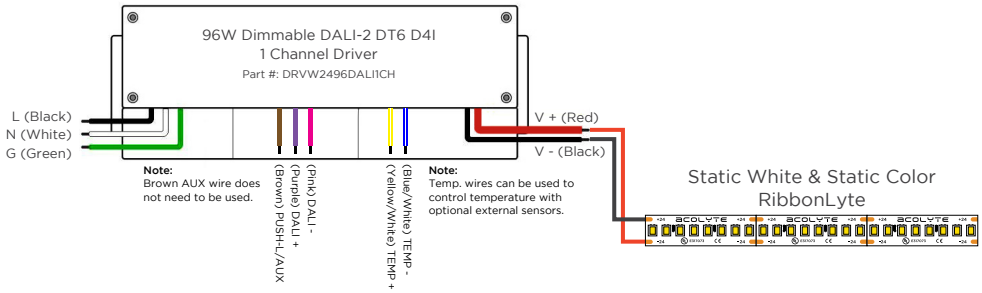
MLV / ELV



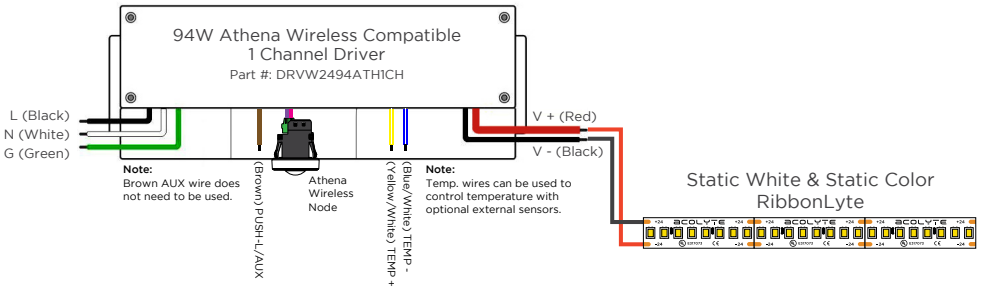
DMX WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



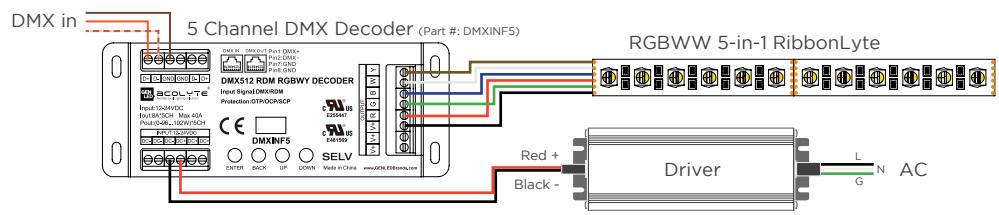
DALI-2 WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



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



DMX WITH RGBWW 5-IN-1 RIBBONLYTE



WIRE COLORS

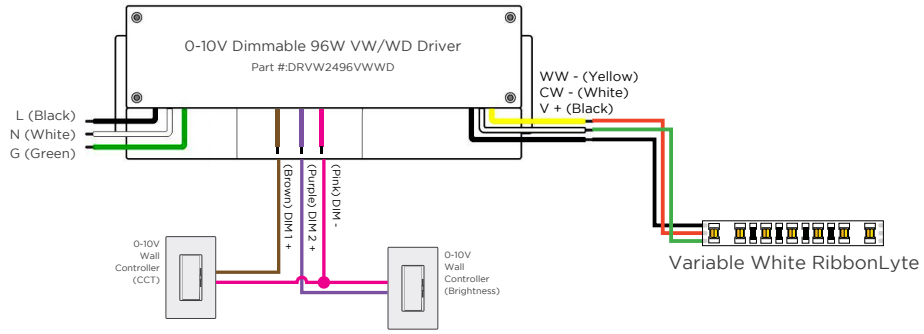
STATIC WHITE + STATIC COLOR
Red Wire (+) Positive
Black Wire (-) Negative

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

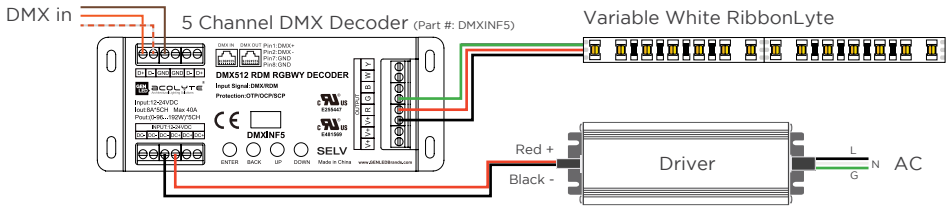
RGBWW
Black (+) Positive
Green Wire (-) goes to Green Channel
Red Wire (-) goes to Red Channel
Blue Wire (-) goes to Blue Channel
White Wire (-) goes to White Channel 1
Brown Wire (-) goes to White Channel 2

WIRING DIAGRAMS - VARIABLE WHITE

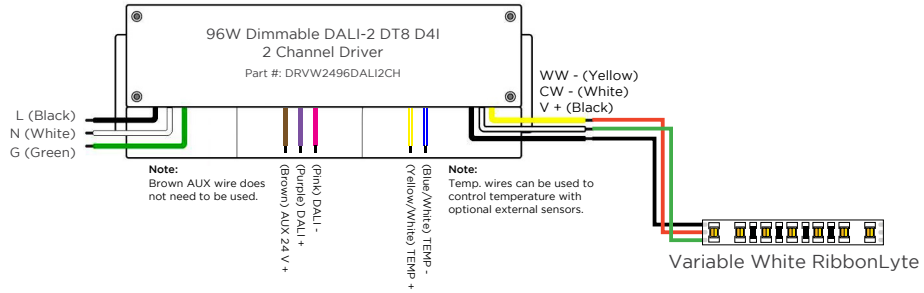
2-CHANNEL VARIABLE WHITE DIMMING



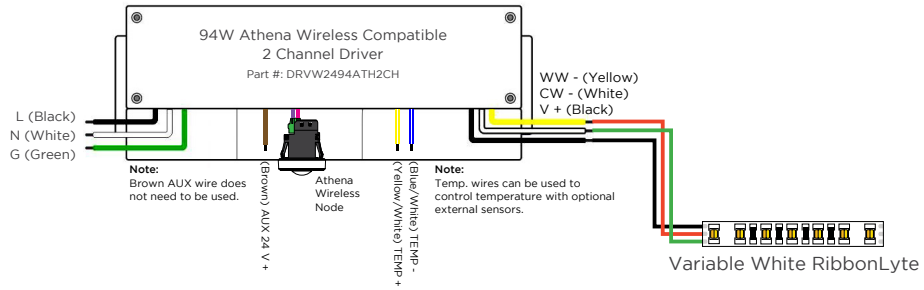
DMX WIRING WITH VARIABLE WHITE RIBBONLYTE



DALI-2 WIRING WITH VARIABLE WHITE RIBBONLYTE



VARIABLE WHITE RIBBONLYTE WIRING WITH ATHENA WIRELESS COMPATIBLE DRIVER



WIRE COLORS

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

REV.05NOV2026

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