GEN LED acolyte® Architectural Lighting Solutions

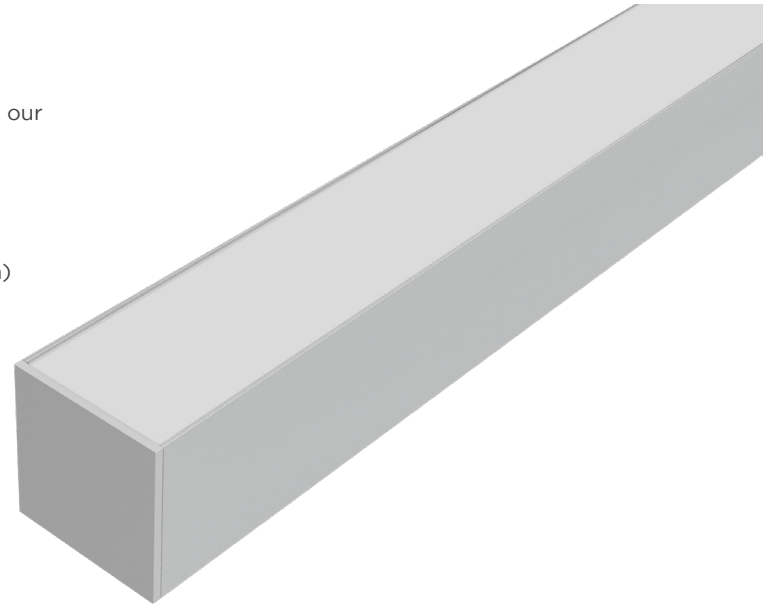
Date | Project

Notes

AS53 CHANNEL FIXTURE

AS53 is a large square, surface mounted aluminum channel extrusion that features a unique channel profile assistant that creates a cable raceway. Create a custom fixture with AS53 and our Double Row RibbonLyte products.

- 2.09 in. (53 mm) wide by 2.09 in. (53 mm) deep
- 100° beam angle
- Wattage Range from 3 W/ft (9.8 W/m) to 12 W/ft (39.4 W/m)
- Static White delivered lumen range: 167.66 lm/ft (549.46 lm/m) up to 1034.18 lm/ft (3392.21 lm/m)
- Milky Lens



HOUSING FINISHES



Silver
Standard

LENS FINISH



Milky Lens
62% Light Transmission

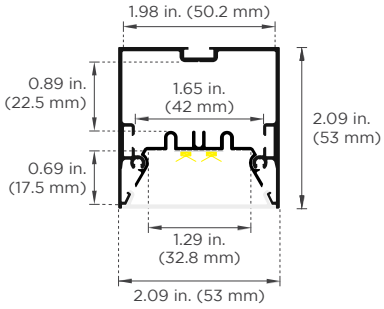
AVAILABLE COLORS & COLOR TEMPERATURES



1800K | 2000K | 2200K | 2400K | 2700K | 3000K | 3500K | 4000K | 6000K | RGBA | RGBW | VW

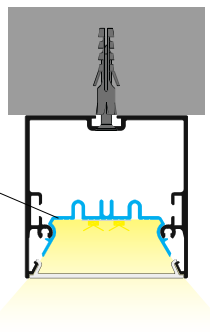
DIMENSIONS

AS53 Channel



Width: 2.09 in. (53 mm)
Height: 2.09 in. (53 mm)
Internal Width for LEDs: 1.29 in. (32.8 mm)

Surface Mount



Profile Assistant
(Part #: CHAS53CPSV)

Note:
1. This channel does not require mounting clips. Please see our installation guide for instructions.
2. **Exterior channel applications** should be securely attached to the mounting surface with appropriate screws and/or liquid nails. Acolyte strongly recommends field assembly for exterior applications.

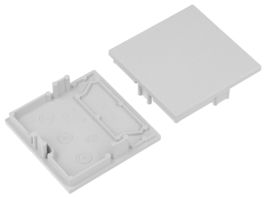
SPECIFICATIONS

Beam Angle	100°
Lens Type	Milky Lens
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, RGBA, RGBW, VW
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

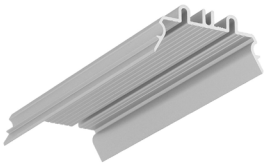
End Caps (included accessory)
Part #: CHAS53ECSVV2

Material: ABS



Profile Assistant
Part #: CHAS53CPSV

Material: Aluminium



90° Coupler - Type 1
Part #: CHAS5390COUPT1

Material: Zinc coated steel



90° Coupler - Type 2
CHAS5390COUPT2

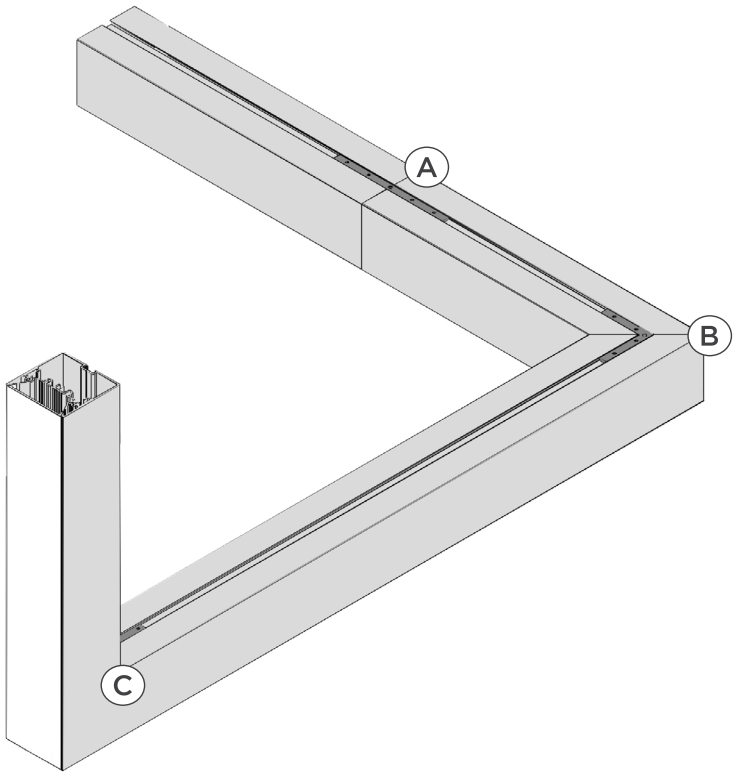
Material: Zinc coated steel

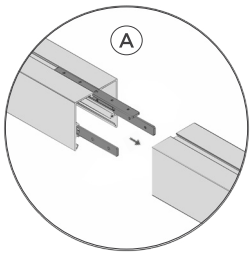


180° Coupler
Part #: CHAS53180COUP

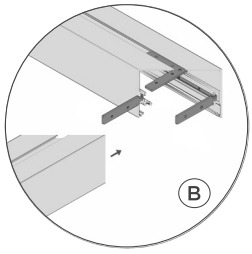
Material: Zinc coated steel





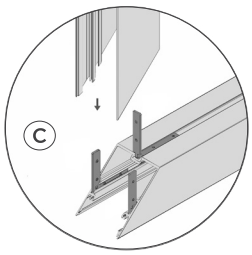


180° Coupler x3
Part #: CHAS53180COUP



90° Coupler - Type 1 x2
Part #: CHAS5390COUPT1

90° Coupler - Type 2 x1
Part #: CHAS5390COUPT2



90° Coupler - Type 1 x1
Part #: CHAS5390COUPT1

90° Coupler - Type 2 x2
Part #: CHAS5390COUPT2

Acolyte does not warrant or represent that the information is free from errors or omission. The information may change without notice and Acolyte is not in any way liable for the accuracy of any information printed and stored or in any way interpreted or used.

ORDERING GUIDE

STEP 1 Complete Channel Part Number

CHANNEL	LENS	HOUSING COLOR
CHAS53	M	SVV2
CHAS53 - AS53 Channel	**M** - Milky Lens	**SVV2** - Silver

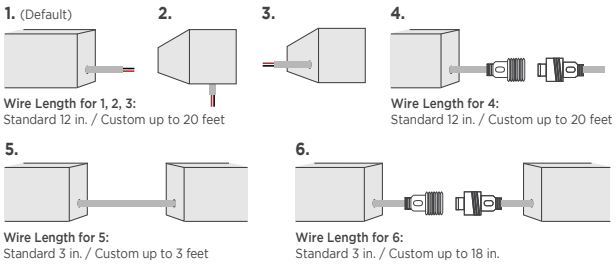
STEP 2 Complete RibbonLyte Part Number

CATEGORY	CRI	RIBBON TYPE & IP RATING
RB		
RB - RibbonLyte	**0** - Static Color, Color Changing	**SWDR20** - Static White Double Row IP20
	90 - 90+ CRI Static White	**RGBWADR20** - RGBW/A Double Row IP20
		VWDR20 - Variable White Double Row IP20

WATTAGE
3.0 - 3.0 W/ft (9.8 W/m - Static White, Variable White, RGBW, RGBA)
6.0 - 6.0 W/ft (19.7 W/m - Static White, Variable White, RGBW, RGBA)
12.0 - 12.0 W/ft (39.4 W/m - Static White, Variable White, RGBW, RGBA)

COLOR	
18 - 1800K	**VW** - Variable White
20 - 2000K	**RGB27** - Red, Green, Blue + 2700K
22 - 2200K	**RGB30** - Red, Green, Blue + 3000K
24 - 2400K	**RGB40** - Red, Green, Blue + 4000K
27 - 2700K	**RGB60** - Red, Green, Blue + 6000K
30 - 3000K	**RGBA** - Red, Green, Blue + Amber
35 - 3500K	**Z** - Undecided (For quotes only. Must be chosen before final order.)
40 - 4000K	
60 - 6000K	

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 Add Accessories

ACCESSORIES
CHAS53CPSV - Profile Assistant
CHAS5390COUPT1 - 90° Coupler - Type 1
CHAS5390COUPT2 - 90° Coupler - Type 2
CHAS53180COUP - 180° Coupler

RIBBONLYTE SPECIFICATIONS & COMPATIBILITY

Available Wattages	Cuttable Length	LED Pitch	Color Temperature	Delivered Lumens with Milky Lens		Max Length	Compatible with Channel			
				lm/ft	lm/m		IP20	IP65	IP68	IP69
3.0 Static White Double Row	0.7 in. (17.9 mm)	136 LEDs/ft (448 LEDs/m)	1800K	167.66	549.46	65 ft 7 in. (20 m)	✓	n/a	n/a	n/a
			2000K	197.54	648.23					
			2200K	215.8	707.99					
			2400K	221.61	727.91					
			2700K	249.83	820.87					
			3000K	270.58	887.27					
			3500K	272.24	893.91					
			4000K	270.58	887.27					
			6000K	262.28	860.71					
6.0 Static White Double Row	0.7 in. (17.9 mm)	136 LEDs/ft (448 LEDs/m)	1800K	334.49	1098.92	39 ft (12 m)	✓	n/a	n/a	n/a
			2000K	395.08	1297.29					
			2200K	431.6	1416.81					
			2400K	444.05	1455.82					
			2700K	500.49	1641.74					
			3000K	540.33	1773.71					
			3500K	544.48	1786.99					
			4000K	540.33	1773.71					
			6000K	524.56	1720.59					
12.0 Static White Double Row	0.7 in. (17.9 mm)	136 LEDs/ft (448 LEDs/m)	1800K	635.78	2085.79	26 ft 3 in. (8 m)	✓	n/a	n/a	n/a
			2000K	750.32	2462.61					
			2200K	819.21	2688.37					
			2400K	842.45	2763.9					
			2700K	949.52	3115.82					
			3000K	1025.88	3367.31					
			3500K	1034.18	3392.21					
			4000K	1025.88	3367.31					
			6000K	996	3266.88					
3.0 Variable White Double Row	1.97 in. (50 mm)	84 LEDs/ft (280 LEDs/m)	2000K + 6500K	199.2	654.04	65 ft 7 in. (20 m)	✓	n/a	n/a	n/a
6.0 Variable White Double Row	1.97 in. (50 mm)	84 LEDs/ft (280 LEDs/m)	2000K + 6500K	375.99	1232.55	45 ft 11 in. (14 m)	✓	n/a	n/a	n/a
12.0 Variable White Double Row	1.97 in. (50 mm)	84 LEDs/ft (280 LEDs/m)	2000K + 6500K	650.72	2134.76	22 ft 11 in. (7 m)	✓	n/a	n/a	n/a

RIBBONLYTE SPECIFICATIONS & COMPATIBILITY

Available Wattages	Cuttable Length	LED Pitch	Color	Delivered Lumens with Milky Lens		Max Length	Compatible with Channel			
				lm/ft	lm/m		IP20	IP65	IP68	IP69
3.0 RGBW Double Row	1.3 in. (33 mm)	72 LEDs/ft (240 LEDs/m)	RGBW	208.33	683.92	26 ft 3 in. (8 m)	✓	n/a	n/a	n/a
3.0 RGBA Double Row	1.3 in. (33 mm)	72 LEDs/ft (240 LEDs/m)	RGBA	723.76	2375.46	26 ft 3 in. (8 m)	✓	n/a	n/a	n/a
6.0 RGBW Double Row	1.3 in. (33 mm)	72 LEDs/ft (240 LEDs/m)	RGBW	416.66	1367.84	22 ft 11 in. (7 m)	✓	n/a	n/a	n/a
6.0 RGBA Double Row	1.3 in. (33 mm)	72 LEDs/ft (240 LEDs/m)	RGBA	183.43	600.92	22 ft 11 in. (7 m)	✓	n/a	n/a	n/a
12.0 RGBW Double Row	1.3 in. (33 mm)	72 LEDs/ft (240 LEDs/m)	RGBW	723.76	2375.46	14 ft 9 in. (4.5 m)	✓	n/a	n/a	n/a
12.0 RGBA Double Row	1.3 in. (33 mm)	72 LEDs/ft (240 LEDs/m)	RGBA	343.62	1127.14	14 ft 9 in. (4.5 m)	✓	n/a	n/a	n/a

DIODE VISIBILITY CHART (Data below applies to installations with Milky lens only)



No Visible Diode = N



With Visible Diode = Y

Static White	Color Changing	
3.0/6.0/12.0 Double Row	**3.0/6.0/12.0 RGBW & RGBA Double Row**	**3.0/6.0/12.0 Variable White Double Row**
IP20	IP20	IP20
N	**N**	**N**

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



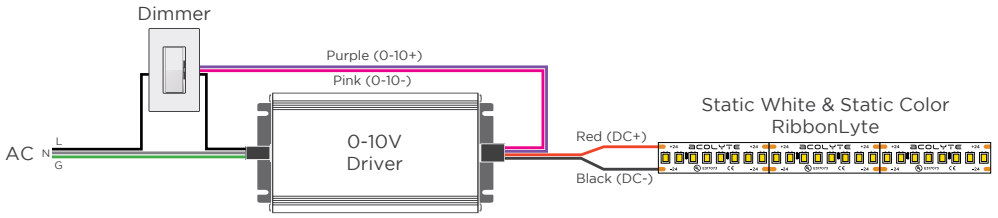
DMX OPTO SPLITTER
Part No.: DMXOS8

DRIVER AND RIBBONLYTE AT FULL LOAD

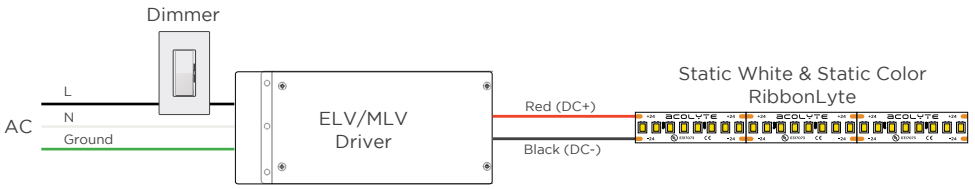
Wattages	30		60		96		150		200		240		300		320	
Wire Gauge	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
24 AWG / 0.25 mm²	14	4.27	9	2.74	5.5	1.68	3.75	1.14	2.75	0.84	2.25	0.69	1.75	0.53	1.75	0.53
22 AWG / 0.34 mm²	22	6.71	14	4.27	9	2.74	5.75	1.75	4.5	1.37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

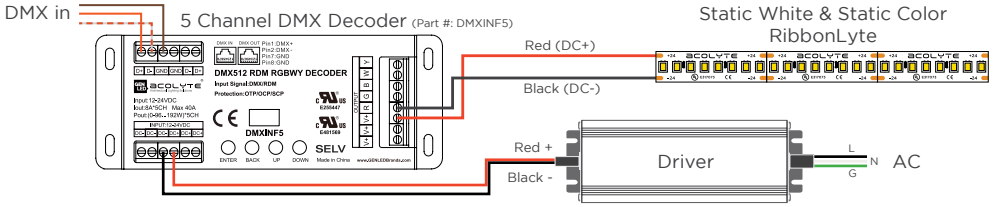
0-10 V



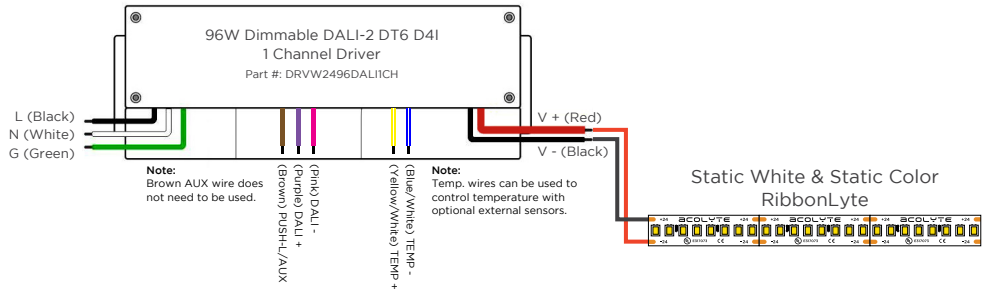
MLV / ELV



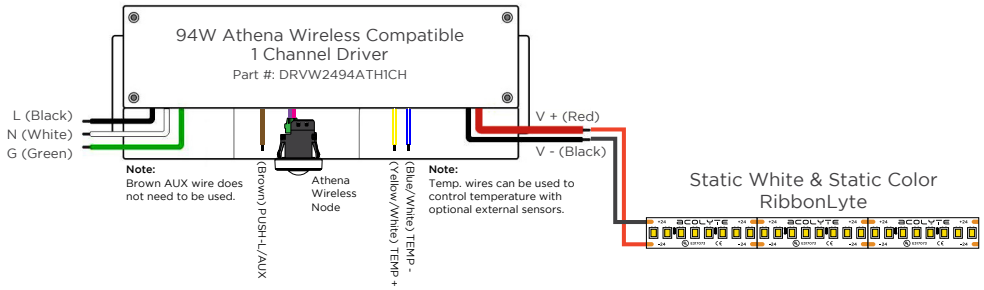
DMX WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



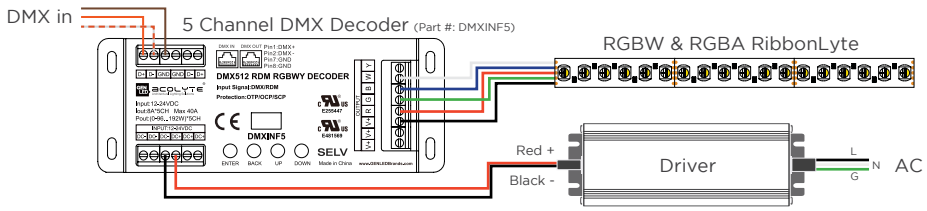
DALI-2 WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



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



DMX WITH RGBW & RGBA RIBBONLYTE



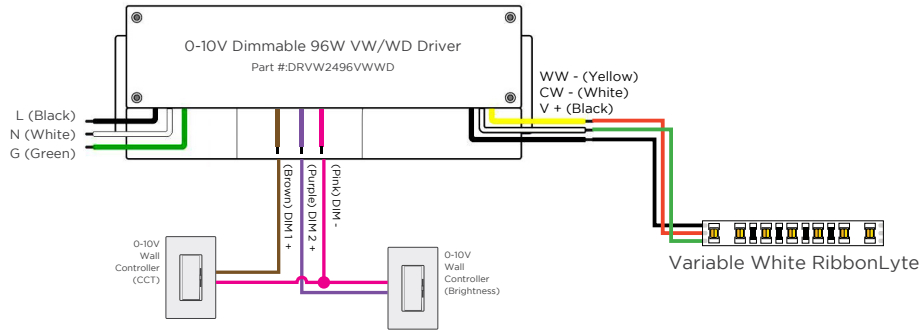
WIRE COLORS

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

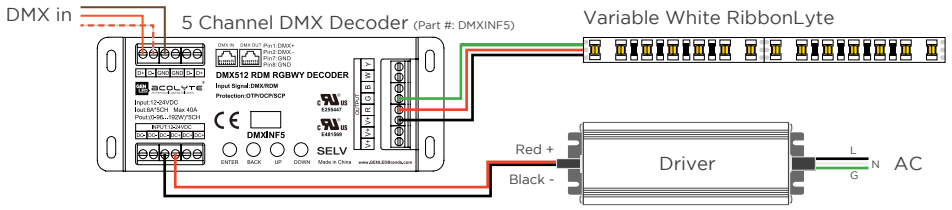
RGBW + RGBA
Black Wire (+) Positive
Green Wire (-) goes to Green Channel
Red Wire (-) goes to Red Channel
Blue Wire (-) goes to Blue Channel
White Wire (-) goes to White Channel

WIRING DIAGRAMS - VARIABLE WHITE

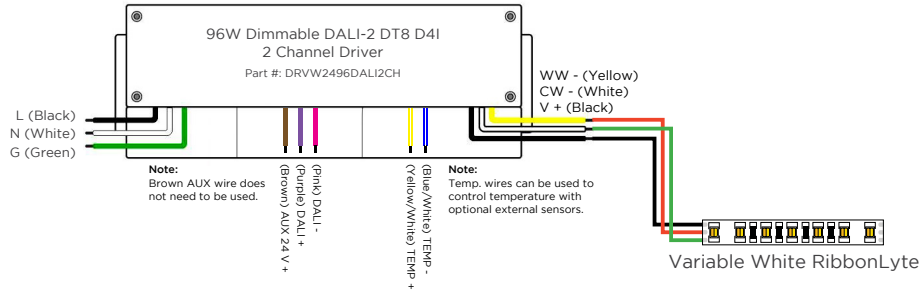
2-CHANNEL VARIABLE WHITE DIMMING



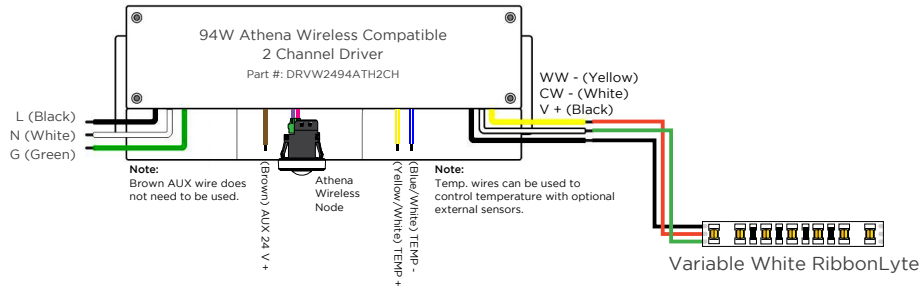
DMX WIRING WITH VARIABLE WHITE RIBBONLYTE



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.04NOV2026

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