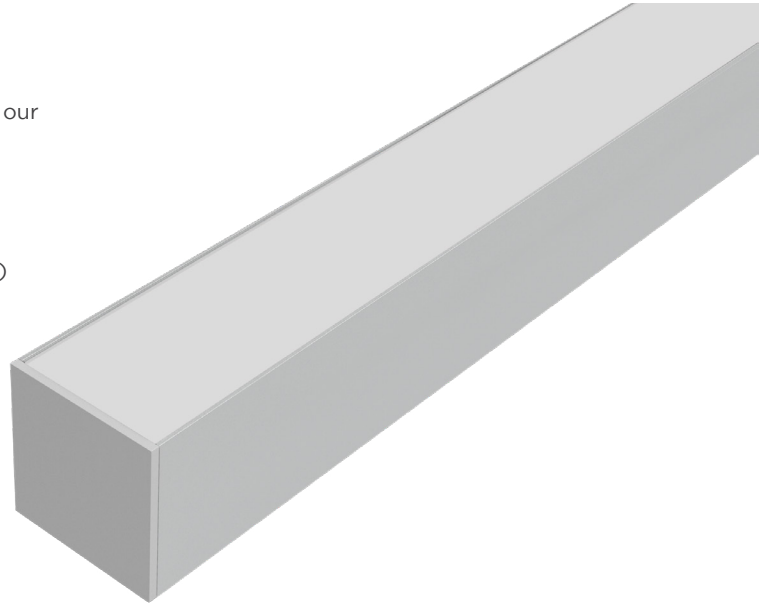


AS53 CHANNEL FIXTURE

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

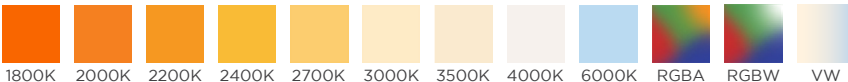


RoHS

Declare.

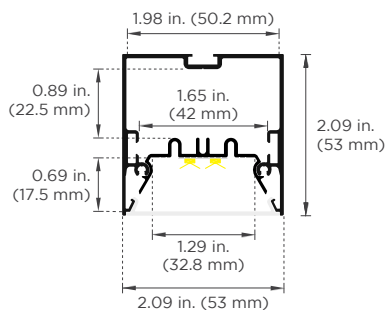


AVAILABLE COLORS & COLOR TEMPERATURES



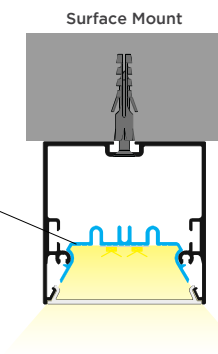
DIMENSIONS

AS53 Channel



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

Profile Assistant
(Part #: CHAS53CPSV)



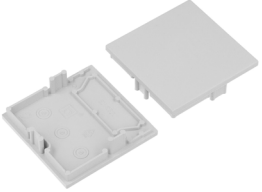
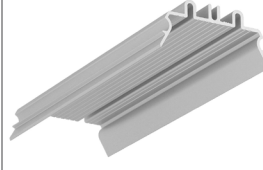
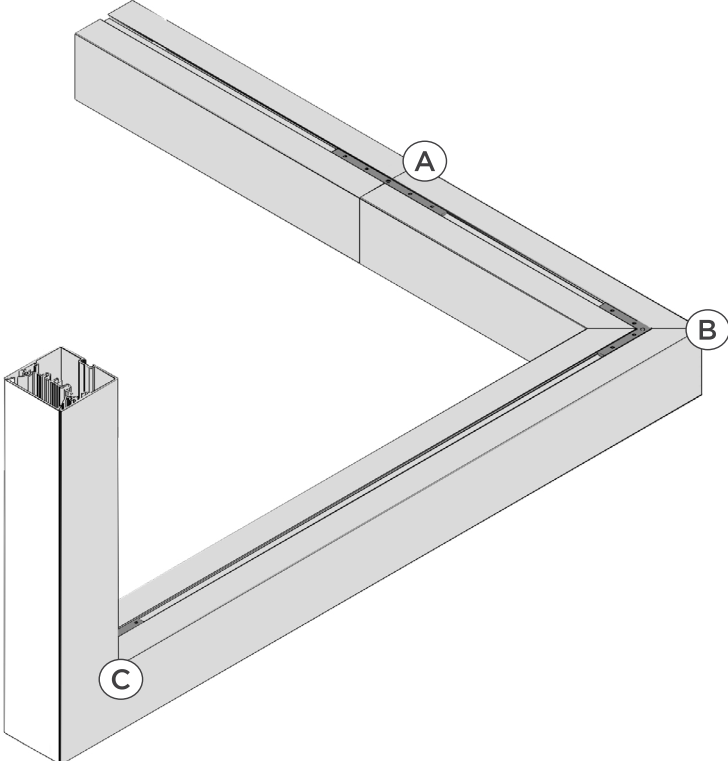
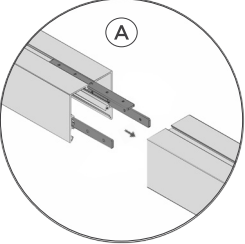
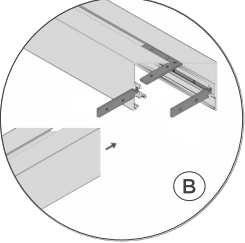
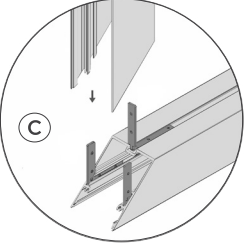
Note:

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

ACCESSORIES

End Caps (included accessory) Part #: CHAS53ECSVV2	Profile Assistant Part #: CHAS53CPSV	90° Coupler - Type 1 Part #: CHAS5390COUPT1	90° Coupler - Type 2 CHAS5390COUPT2	180° Coupler Part #: CHAS53180COUP
Material: ABS	Material: Aluminium	Material: Zinc coated steel	Material: Zinc coated steel	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

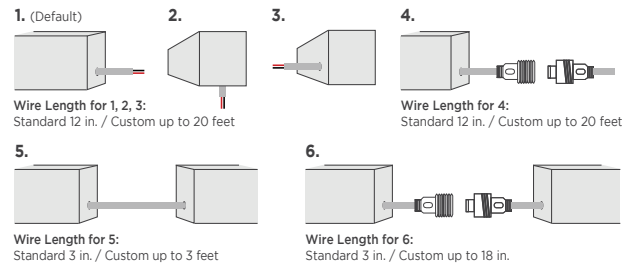
CATEGORY	CRI	RIBBON TYPE & IP RATING
RB		
RB - RibbonLyte	0 - Static Color, Color Changing 90 - 90+ CRI Static White	SWDR20 - Static White Double Row IP20 RGBWADR20 - RGBW/A Double Row IP20 VWDR20 - Variable White Double Row IP20

WATTAGE	COLOR
3.0 - 3.0 W/ft (9.8 W/m - Static White, Variable White, RGBW, RGBA)	18 - 1800K VW - Variable White
6.0 - 6.0 W/ft (19.7 W/m - Static White, Variable White, RGBW, RGBA)	20 - 2000K RGB27 - Red, Green, Blue + 2700K
12.0 - 12.0 W/ft (39.4 W/m - Static White, Variable White, RGBW, RGBA)	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)

- | | |
|------------------------------------|-------------------------------------|
| 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 Add Accessories

ACCESSORIES

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

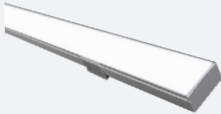
RIBBONLYTE SPECIFICATIONS & COMPATIBILITY

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					
			1800K	334.49	1098.92					
			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					
6.0 Static White Double Row	0.7 in. (17.9 mm)	136 LEDs/ft (448 LEDs/m)	4000K	540.33	1773.71	39 ft (12 m)	✓	n/a	n/a	n/a
			6000K	524.56	1720.59					
			1800K	635.78	2085.79					
			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					
12.0 Static White Double Row	0.7 in. (17.9 mm)	136 LEDs/ft (448 LEDs/m)	3500K	1034.18	3392.21	26 ft 3 in. (8 m)	✓	n/a	n/a	n/a
			4000K	1025.88	3367.31					
			6000K	996	3266.88					
			2000K + 6500K	199.2	654.04					
			2000K + 6500K	375.99	1232.55					
			2000K + 6500K	650.72	2134.76					
			2000K + 6500K							
			2000K + 6500K							
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	
IP20	IP20	
N	N	
	3.0/6.0/12.0 Variable White Double Row	
	IP20	
	N	

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

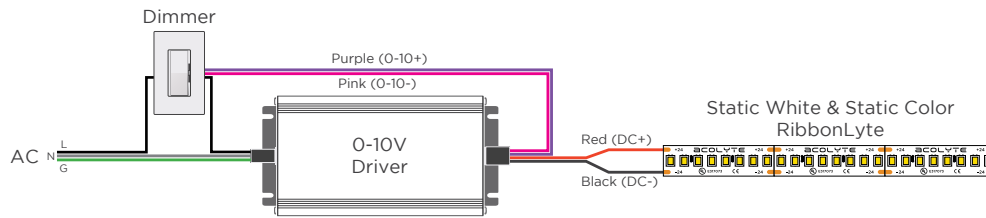
				
GLASS TOUCH WALL CONTROLLERS Part No.: • AWCRCBWWBK • AWCWBK	1 ZONE WALL CONTROLLER Part No.: DMXCTRLG	5 ZONE WALL CONTROLLER Part No.: DMXCTRL	10 ZONE WALL CONTROLLER Part No.: DMXCTRLD	6 UNIVERSE DMX CONTROLLER Part No.: DMXCTRLDR6U
				
VARIABLE WHITE DIMMER Part No.: • RFDIMVWWH (White) • RFDIMVWBK (Black)	WARM DIM DIMMER Part No.: • RFDIMVDWH (White) • RFDIMVDBK (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

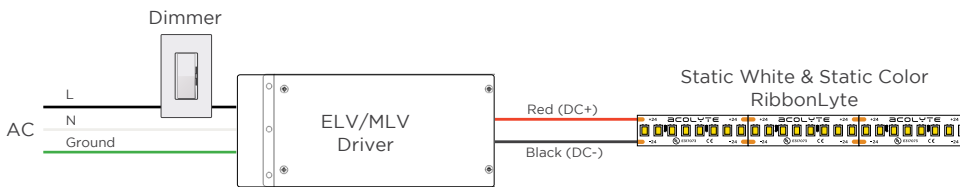
Wattages	30		60		96		150		200		240		300		320	
Wire Gauge	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
24 AWG / 0.25 mm ²	14	4.27	9	2.74	5.5	1.68	3.75	1.14	2.75	0.84	2.25	0.69	1.75	0.53	1.75	0.53
22 AWG / 0.34 mm ²	22	6.71	14	4.27	9	2.74	5.75	1.75	4.5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

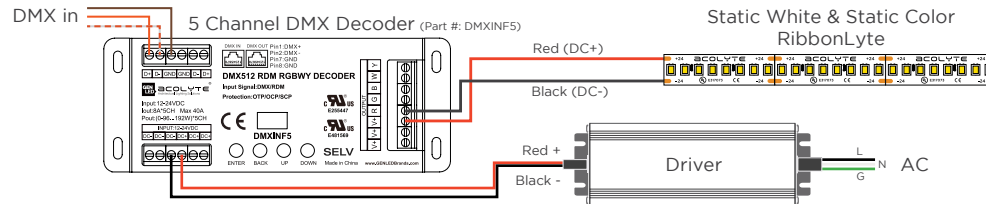
0-10 V



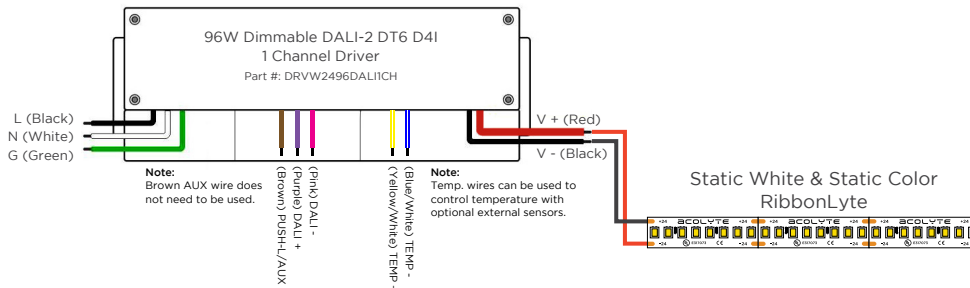
MLV / ELV



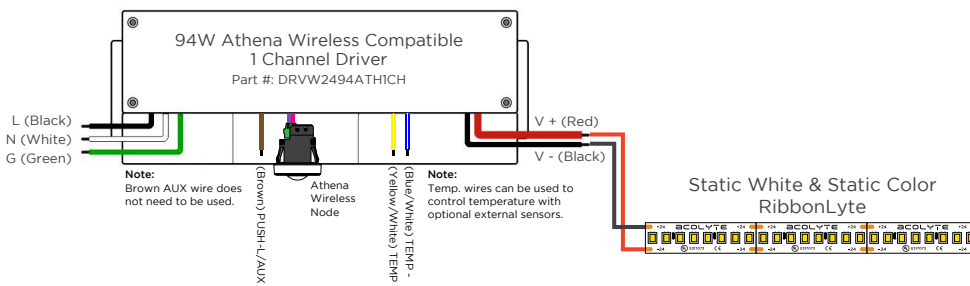
DMX WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



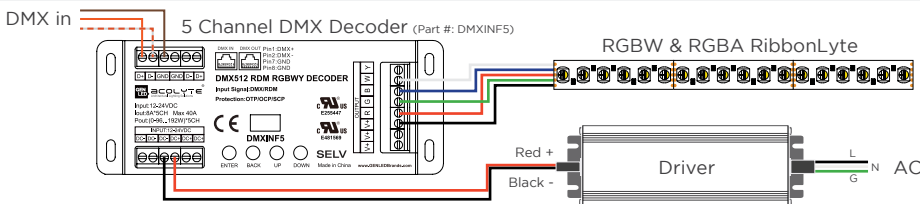
DALI-2 WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



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



DMX WITH RGBW & RGBA RIBBONLYTE



WIRE COLORS PER RIBBONLYTE COLOR

STATIC WHITE + STATIC COLOR

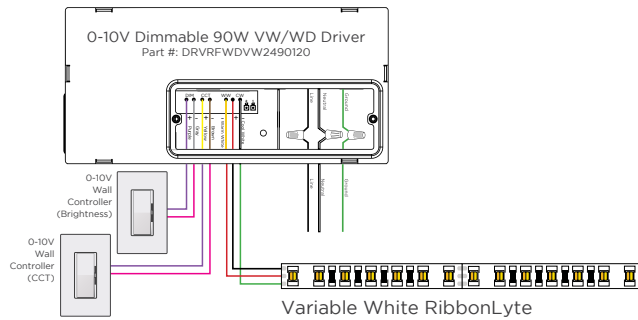
Red Wire (+) Positive
Black Wire (-) Negative

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

WIRING DIAGRAMS - VARIABLE WHITE

2-CHANNEL VARIABLE WHITE DIMMING

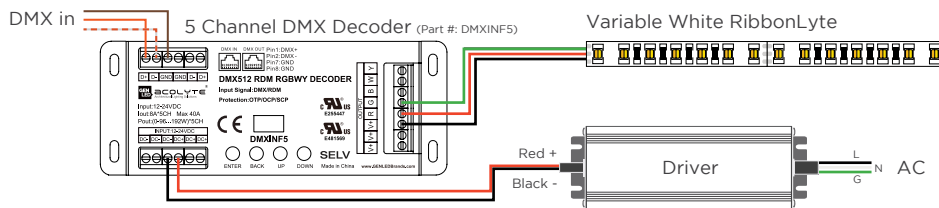


WIRE COLORS PER RIBBONLYTE COLOR

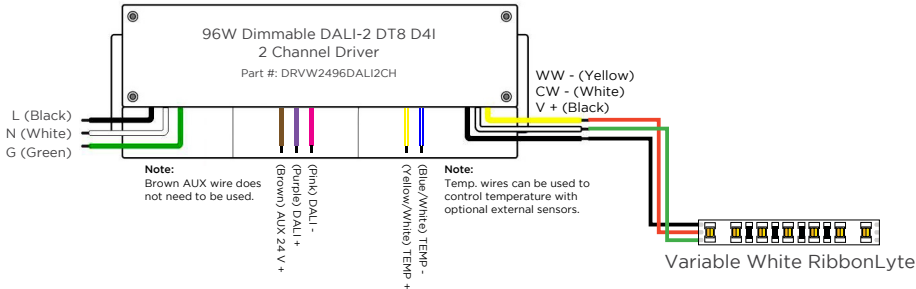
VARIABLE WHITE

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

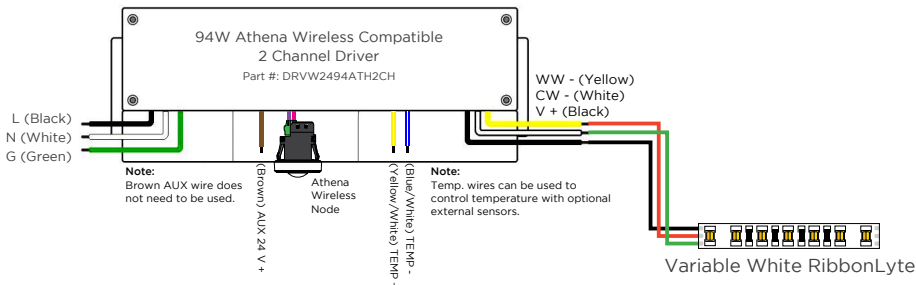
DMX WIRING WITH VARIABLE WHITE RIBBONLYTE



DALI-2 WIRING WITH VARIABLE WHITE RIBBONLYTE



VARIABLE WHITE RIBBONLYTE WIRING WITH ATHENA WIRELESS COMPATIBLE DRIVER



REV.24JUN2026

GLOBAL HQ

320 Murray Hill Pkwy
East Rutherford, NJ 07073
U.S.
T: (+1) 212 629 6830
E: Sales-US@GENLEDBrands.com

EUROPEAN HQ

Hogeweysesteen 119
1382 JK Weesp
Netherlands
T: (+31) 346 235 000
E: SalesEurope@GENLEDBrands.com

MEINA HQ

PO Box 371378, #823, Building 4EA
Dubai Airport Free Zone
Dubai, UAE
T: (+971) 4 701 7901
E: SalesMEINA@genledbrands.com

ASIA-PACIFIC HQ

Room 402, Building D
Shenxi Tongchuang Science and Technology Park
No. 16 Hongyin Road
Xingqiang Community, Xinhua Street
Guangming District, Shenzhen, China 518107
T: (+86) 755 8529 0710
E: Sales-Pacific@GENLEDBrands.com