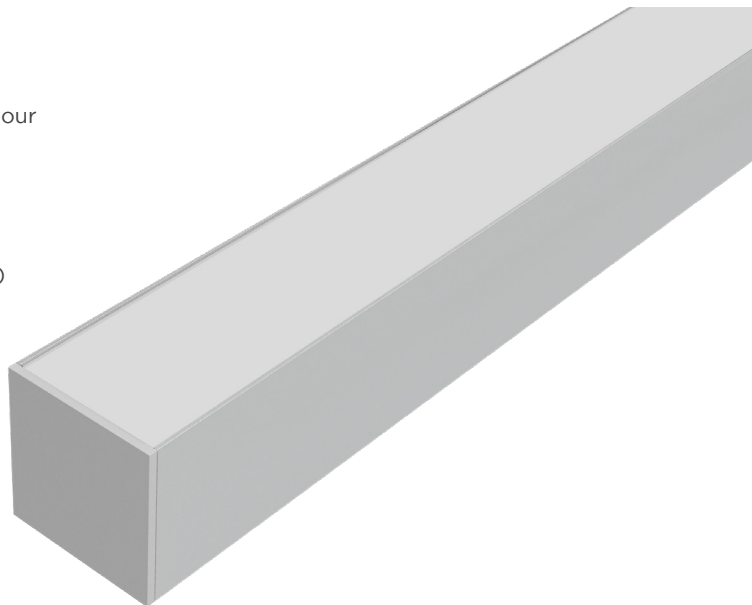


AS53 CHANNEL FIXTURE

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

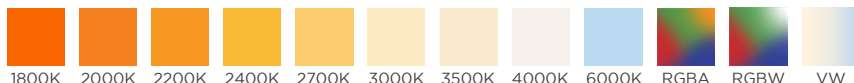


RoHS

Declare.

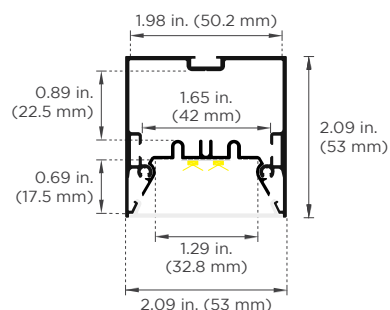


AVAILABLE COLORS & COLOR TEMPERATURES



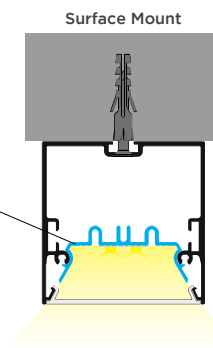
DIMENSIONS

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)



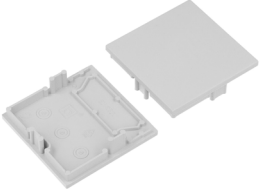
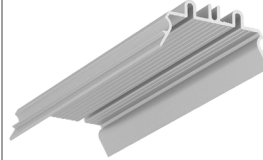
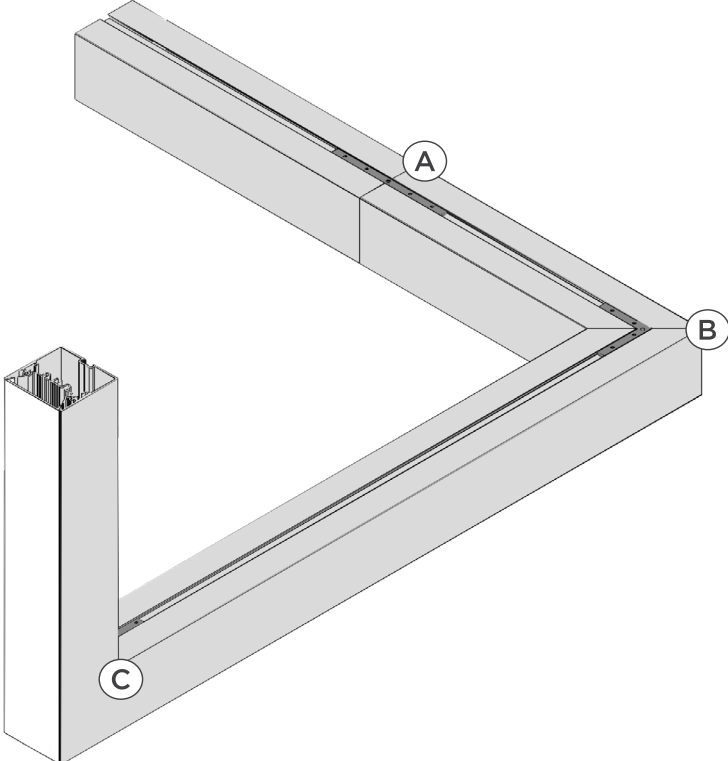
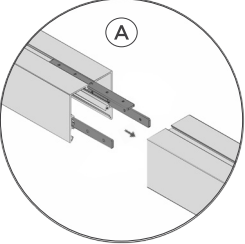
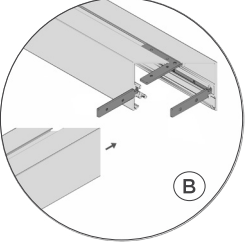
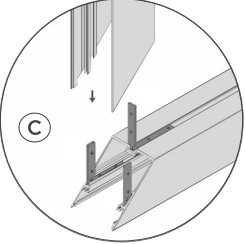
Note:

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
Operating Temperature	-40 — 158 °F (-40 — 70 °C)
Colors	1800K, 2000K, 2200K, 2400K, 2700K, 3000K, 3500K, 4000K, 6000K, RGBA, RGBW, VW
CRI	90+ CRI (Static white 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

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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

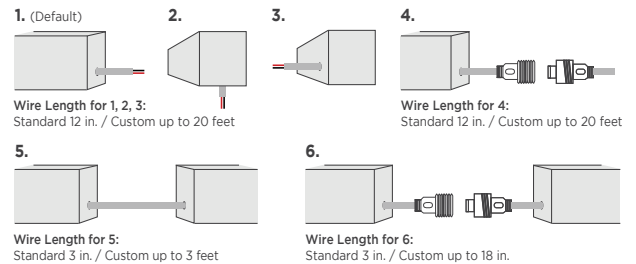
CATEGORY	CRI	RIBBON TYPE & IP RATING
RB		
RB - RibbonLyte	0 - Static Color, Color Changing 90 - 90+ CRI Static White	SWDR20 - Static White Double Row IP20 RGBWADR20 - RGBW/A Double Row IP20 VWDR20 - Variable White Double Row IP20

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**
	40 - 4000K ** For quotes only. Must be chosen before final order.
	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

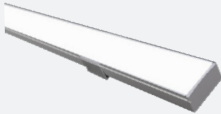
RIBBONLYTE SPECIFICATIONS & COMPATIBILITY

Available Wattages	Cuttable Length	LED Pitch	Color Temp.	lm/W without Lens	Delivered Lumens with Milky Lens		Max Length	Compatible with Channel		
					lm/ft	lm/m		IP20	IP65	IP68
3.0 Static White Double Row	0.7 in. (17.9 mm)	136 LEDs/ft (448 LEDs/m)	1800K	73	167.66	549.46	65 ft 7 in. (20 m)	✓	N/A	N/A
			2000K	86	197.54	648.23				
			2200K	94	215.8	707.99				
			2400K	97	221.61	727.91				
			2700K	109	249.83	820.87				
			3000K	118	270.58	887.27				
			3500K	119	272.24	893.91				
			4000K	118	270.58	887.27				
			6000K	114	262.28	860.71				
6.0 Static White Double Row	0.7 in. (17.9 mm)	136 LEDs/ft (448 LEDs/m)	1800K	73	334.49	1098.92	39 ft (12 m)	✓	N/A	N/A
			2000K	86	395.08	1297.29				
			2200K	94	431.6	1416.81				
			2400K	97	444.05	1455.82				
			2700K	109	500.49	1641.74				
			3000K	118	540.33	1773.71				
			3500K	119	544.48	1786.99				
			4000K	118	540.33	1773.71				
			6000K	114	524.56	1720.59				
12.0 Static White Double Row	0.7 in. (17.9 mm)	136 LEDs/ft (448 LEDs/m)	1800K	69	635.78	2085.79	26 ft 3 in. (8 m)	✓	N/A	N/A
			2000K	82	750.32	2462.61				
			2200K	89	819.21	2688.37				
			2400K	92	842.45	2763.9				
			2700K	104	949.52	3115.82				
			3000K	112	1025.88	3367.31				
			3500K	113	1034.18	3392.21				
			4000K	112	1025.88	3367.31				
			6000K	109	996	3266.88				
3.0 Variable White Double Row	1.97 in. (50 mm)	84 LEDs/ft (280 LEDs/m)	2000K + 6500K	87	199.2	654.04	65 ft 7 in. (20 m)	✓	N/A	N/A
6.0 Variable White Double Row	1.97 in. (50 mm)	84 LEDs/ft (280 LEDs/m)	2000K + 6500K	82	375.99	1232.55	45 ft 11 in. (14 m)	✓	N/A	N/A
12.0 Variable White Double Row	1.97 in. (50 mm)	84 LEDs/ft (280 LEDs/m)	2000K + 6500K	71	650.72	2134.76	22 ft 11 in. (7 m)	✓	N/A	N/A

RIBBONLYTE SPECIFICATIONS & COMPATIBILITY

Available Wattages	Cuttable Length	LED Pitch	Color	lm/W without Lens	Delivered Lumens with Milky Lens		Max Length	Compatible with Channel		
					lm/ft	lm/m		IP20	IP65	IP68
3.0 RGBW Double Row	1.3 in. (33 mm)	72 LEDs/ft (240 LEDs/m)	RGBW	91	208.33	683.92	26 ft 3 in. (8 m)	✓	N/A	N/A
3.0 RGBA Double Row	1.3 in. (33 mm)	72 LEDs/ft (240 LEDs/m)	RGBA	78	723.76	2375.46	26 ft 3 in. (8 m)	✓	N/A	N/A
6.0 RGBW Double Row	1.3 in. (33 mm)	72 LEDs/ft (240 LEDs/m)	RGBW	91	416.66	1367.84	22 ft 11 in. (7 m)	✓	N/A	N/A
6.0 RGBA Double Row	1.3 in. (33 mm)	72 LEDs/ft (240 LEDs/m)	RGBA	80	183.43	600.92	22 ft 11 in. (7 m)	✓	N/A	N/A
12.0 RGBW Double Row	1.3 in. (33 mm)	72 LEDs/ft (240 LEDs/m)	RGBW	79	723.76	2375.46	14 ft 9 in. (4.5 m)	✓	N/A	N/A
12.0 RGBA Double Row	1.3 in. (33 mm)	72 LEDs/ft (240 LEDs/m)	RGBA	75	343.62	1127.14	14 ft 9 in. (4.5 m)	✓	N/A	N/A

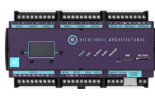
DIODE VISIBILITY CHART (Data below applies to installations with Milky lens only)

 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

NON-DIMMING ELECTRONIC DRIVERS		0-10V/ELV/MLV 3-IN-1		0-10V VW/WD	
					
30W, 60W, 96W Non-Dimming Electronic Class 2 Drivers	240W, 320W Non-Dimming Electronic Drivers	60W, 96W Non-Dimming Compact Drivers	60W, 96W, 288W 0-10V/ELV/MLV 3-in-1 Dimmable Drivers	0-10V Dimmable 90W VW/WD Driver	
Part No.: • DRVW2430 (30 W) • DRVW2460 (60 W) • DRVW2496 (96 W)	Part No.: • DRVW24240 (240 W) • DRVW24320 (320 W)	Part No.: • DRV2460C (60 W) • DRV2496C (96 W)	Part No.: • DRVW2460TRI010 (60 W) • DRVW2496TRI010 (96 W) • DRVW24288TRI010 (288 W)	Part No.: • DRVRFWDVW2490120	
24 VDC 120-277 VAC IP65, dry/damp locations UL Listed	24 VDC 90-305 VAC IP65, dry/damp locations UL Recognized	24 VDC 120-277 VAC IP20, dry locations UL Class P	24 VDC 120-277 VAC IP65, dry/damp/wet locations UL Listed	24 VDC 100-277 VAC IP23, dry/damp locations UL Listed	
ATHENA WIRELESS COMPATIBLE		CASAMBI COMPATIBLE DRIVERS		DIMMABLE DALI-2 DRIVERS	
					
94W Athena Wireless Compatible Drivers	100W & 200W Casambi Compatible 4 Channel Drivers	96W DIMMABLE DALI-2 DT6 D4I & DALI-2 DT8 D4I DRIVERS		75W, 150W, 240W DALI-2 Dimmable Drivers	
Part No.: • DRVW2494ATH1CH (1 channel) • DRVW2494ATH2CH (2 channel)	Part No.: • DRVW24100CAS4CH (100 W) • DRVW24200CAS4CH (200 W)	Part No.: • DRVW2496DALI1CH (1 channel) • DRVW2496DALI2CH (2 channel)		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 100-277 VAC Dry locations UL Listed	24 VDC 100-277 VAC IP66, dry/damp/wet locations UL Listed, CE, RoHS, Bluetooth, CASAMBI	24-26 VDC 120-277 VAC IP67, dry/damp/wet locations UL Listed		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

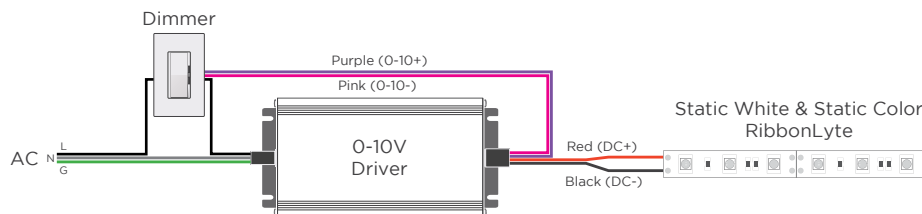
 GLASS TOUCH WALL CONTROLLERS Part No.: • AWCRGBWWBK • AWCWWBK		 1 ZONE WALL CONTROLLER Part No.: DMXCTRLG		 5 ZONE WALL CONTROLLER Part No.: DMXCTRL		 10 ZONE WALL CONTROLLER Part No.: DMXCTRLD		 6 UNIVERSE DMX CONTROLLER Part No.: DMXCTRLDR6U	
 VARIABLE WHITE DIMMER Part No.: • RFDIMVDDWH (White) • RFDIMVDDBK (Black)		 WARM DIM DIMMER Part No.: • RFDIMDDWH (White) • RFDIMDDBK (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

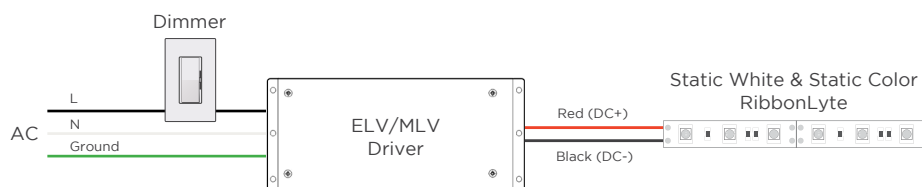
Wattages	30		60		96		150		200		240		300		320	
	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
24 AWG / 0.25 mm ²	14	4.27	9	2.74	5.5	1.68	3.75	1.14	2.75	0.84	2.25	0.69	1.75	0.53	1.75	0.53
22 AWG / 0.34 mm ²	22	6.71	14	4.27	9	2.74	5.75	1.75	4.5	1.37	3.5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

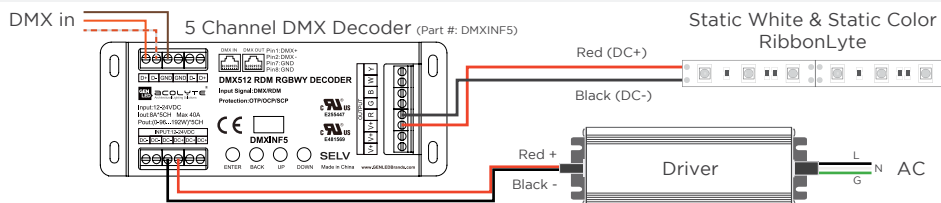
0-10 V



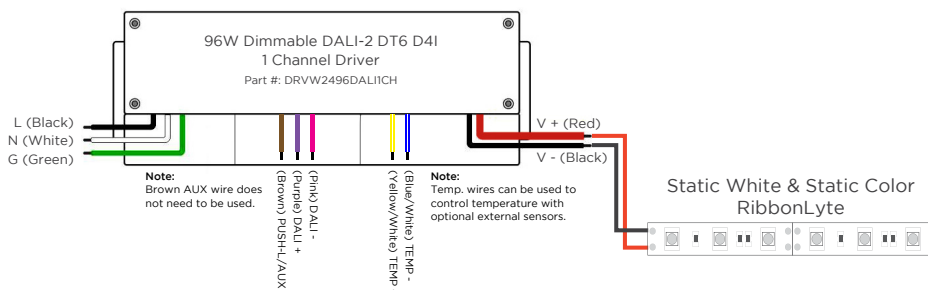
MLV / ELV



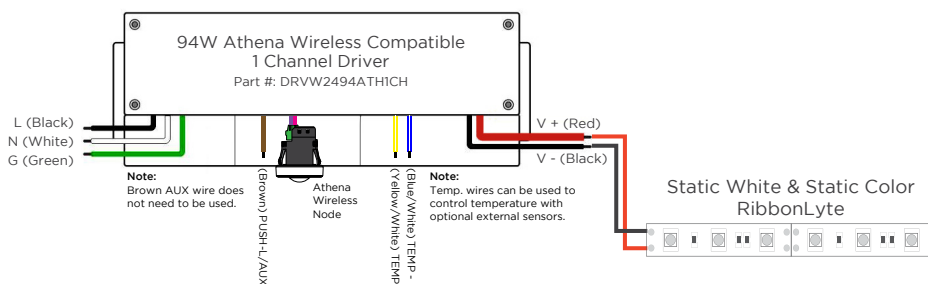
DMX WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



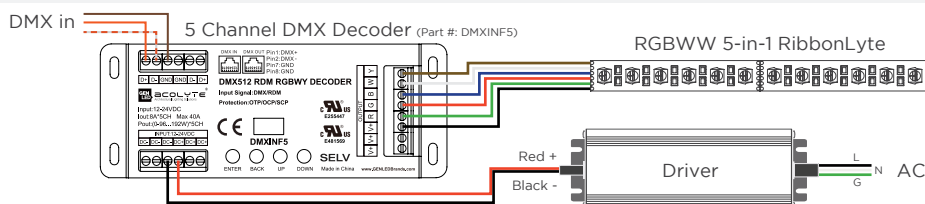
DALI-2 WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



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

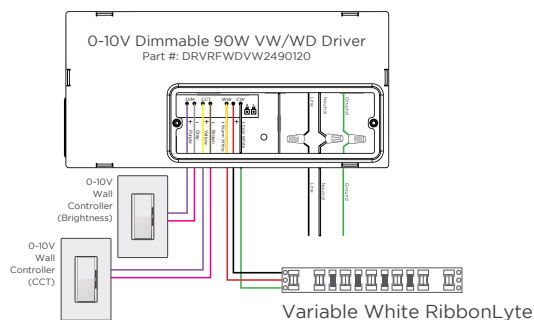
Black Wire (+) Positive
Green Wire (-) goes to Green Channel
Red Wire (-) goes to Red Channel
Blue Wire (-) goes to Blue Channel
White Wire (-) goes to White Channel

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

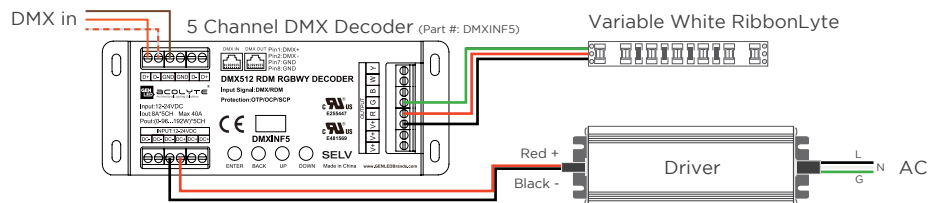


WIRE COLORS PER RIBBONLYTE COLOR

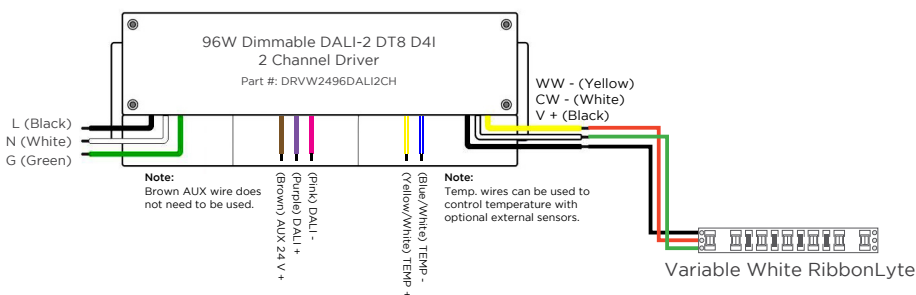
VARIABLE WHITE

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

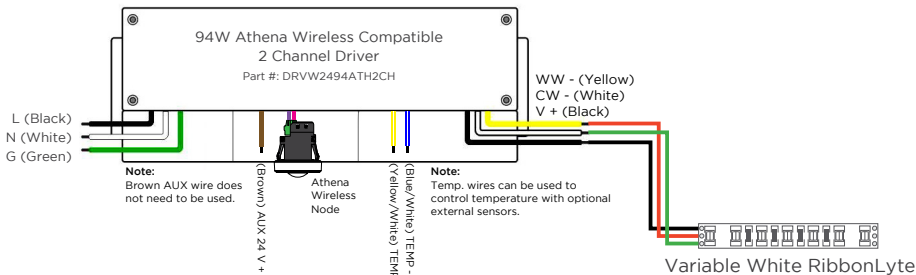
DMX WIRING WITH VARIABLE WHITE RIBBONLYTE



DALI-2 WIRING WITH VARIABLE WHITE RIBBONLYTE



VARIABLE WHITE RIBBONLYTE WIRING WITH ATHENA WIRELESS COMPATIBLE DRIVER



REV.20NOV2025

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