GEN LED acolyte® Architectural Lighting Solutions

Date | Project

Notes

AS20GS CHANNEL FIXTURE

AS20GS channel is an aluminum grazer with a narrow asymmetrical beam angle and a built-in glare shield. Design custom fixtures with AS20GS channel and our RibbonLyte products.

- Surface mounted asymmetric channel with glare shield
- Available for field assembly or factory assembly
- Beam angle: 59x63°
- Grazer lens
- For interior applications only



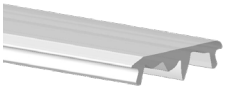
HOUSING FINISHES



Silver Standard | **Black** | **Custom RAL***

*Additional fee applies

AVAILABLE LENS FINISHES



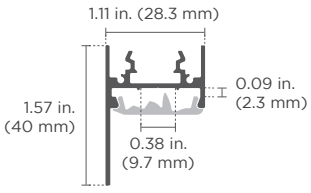
Grazer Lens (PC)
95% Light Transmission

AVAILABLE COLORS & COLOR TEMPERATURES

1800K | 2000K | 2200K | 2400K | 2700K | 3000K | 3500K | 4000K | 6000K | Red | Amber | Green | Blue | VW

DIMENSIONS

AS20GS Channel

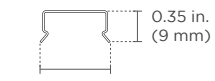


Width: 1.11 in. (28.3 mm)
Height: 1.57 in. (40 mm)
Internal Width: 0.38 in. (9.7 mm)

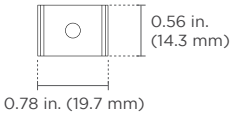
Mounting Clip (Included Accessory) (Part #: CHAS20GSMC)

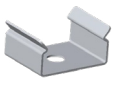
Material: stainless steel

Side View

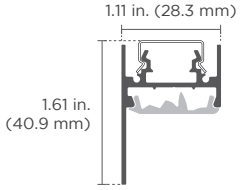


Top View





Assembled View



Width: 0.78 in. (19.7 mm)
Length: 0.56 in. (14.3 mm)
Height: 0.35 in. (9 mm)

Note:
1. Each section of channel includes **3 mounting clips**.
2. **Magnetic mounting** option available (see page 2)

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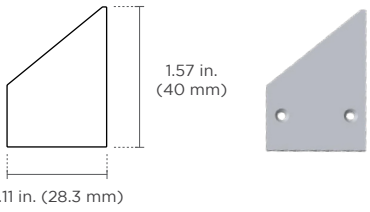
SPECIFICATIONS

Beam Angle	59x63°
Lens Type	Grazer Lens (PC)
Length	Channel is sold by the foot and cut to your exact desired length. Required amount of mounting clips included.
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, VW (1800K, 2000K, 2200K only available in IP20)
CRI	90+ CRI (for Static White LEDs only)
Lamp Life	L70 at 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

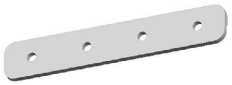
End Caps (Part #: CHAS20GSEC)

Material: Polycarbonate



180° Connector (Part #: CHAS20GS180)

Material: Stainless steel

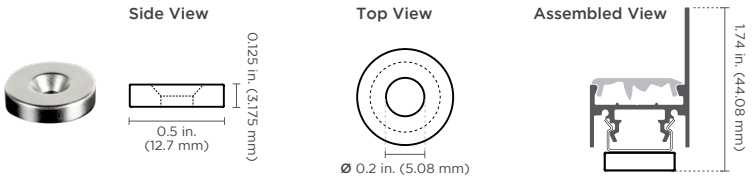


90° Connector (Part #: CHAS20GS90)

Material: Stainless steel



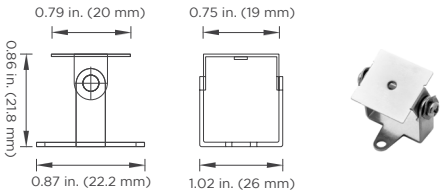
Magnetic Mount (Part #: CHMAG0.5)



Features:
- High-energy neodymium magnets come attached to mounting clips with countersink hex nuts
- Create easy-mount magnetic channels with minimal surface gaps; no tools or drilling necessary
- Magnets rated for 8 lbs. of pull force with static load

Applications:
- Industrial lighting retrofits for troffers and other metal fixtures
- Metal retail shelf lighting
- Temporary light fixture installations

Tiltable Stand (Part #: TILTSTANDST)



Assembled Height with Channel: 2.47 in. (62.7 mm)

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 Grazer Lens		Compatibility with AS20GS 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)	324	1064	✓				Y

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

STEP 1 Complete Channel Part Number

CHANNEL	LENS	HOUSING COLOR	
CHAS20GS	C		
CHAS20GS - AS20GS Channel	**C** - Grazer Lens	**SV** - Silver (default)	**BK** - Black
			Consult factory for custom colors (additional fee applies)

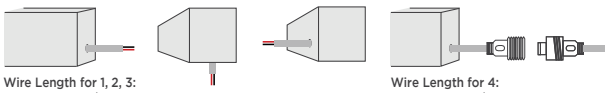
STEP 2 Complete RibbonLyte Part Number

CATEGORY	CRI	RIBBON TYPE & IP RATING	
RB			
RB - RibbonLyte	**0** - Static Color, Color Changing	**SWS220** - Static White Series 2 IP20	**LINEA20** - Linea RibbonLyte IP20
	90 - 90+ CRI Static White	**SCS220** - Static Color Series 2 IP20	**XACTA20** - Xacta RibbonLyte IP20
		VWS220 - VW Series 2 IP20	

WATTAGE	COLOR	
0.75 - 0.75 W/ft (2.46 W/m - Static White, Static Color)	**18** - 1800K	**R** - Red
1.0 - 1.0 W/ft (3.3 W/m - Variable White)	**20** - 2000K	**A** - Amber
1.5 - 1.5 W/ft (4.9 W/m - Static White, Static Color, Variable White)	**22** - 2200K	**G** - Green
2.2 - 2.2 W/ft (7.2 W/m - Static White, Static Color)	**24** - 2400K	**B** - Blue
2.4 - 2.4 W/ft (8 W/m - Static White Linea)	**27** - 2700K	**VW** - Variable White 2000K-6500K
3.0 - 3.0 W/ft (9.8 W/m - Static White, Static Color, Variable White)	**30** - 3000K	**VW1833** - Variable White 1800K-3300K (IP20)
4.4 - 4.4 W/ft (14.4 W/m - Static White, Static Color)	**35** - 3500K	**Z -** Undecided (For quotes only. Must be chosen before final order)
4.5 - 4.5 W/ft (14.8 W/m - Static White, Variable White)	**40** - 4000K	
6.0 - 6.0 W/ft (19.7 W/m - Variable White)	**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	

1. (Default) **2.** **3.** **4.**



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

5. **6.**



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

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

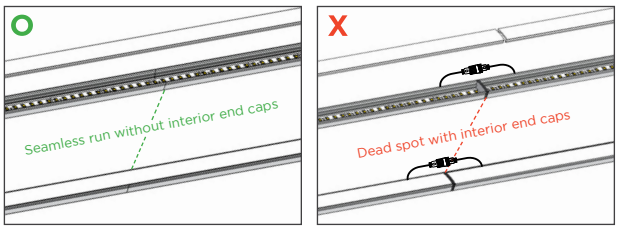
STEP 3 Complete Assembly Option & Length

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	
CHMAG0.5 - Magnetic Mount	**CHAS20GS180** - 180° Connector
TILTSTANDST - Tiltable Stand	**CHAS20GS90** - 90° 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



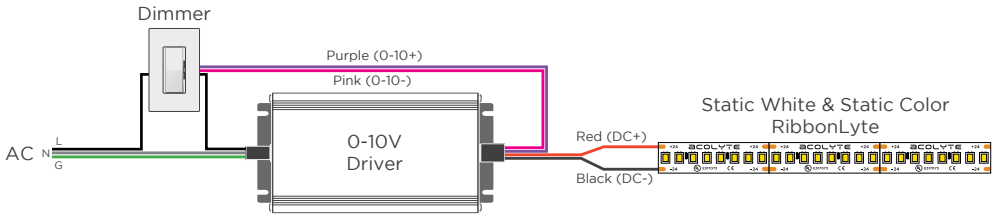
DMX OPTO SPLITTER
Part No.: DMXOS8

DRIVER AND RIBBONLYTE AT FULL LOAD

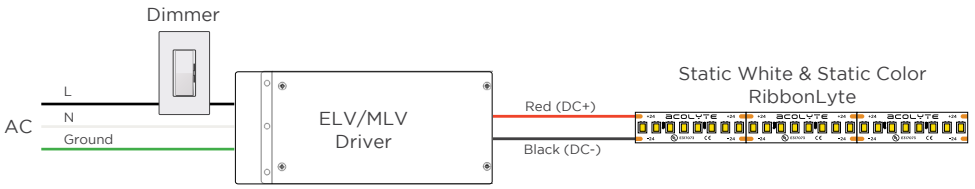
Wattages	30		60		96		150		200		240		300		320	
Wire Gauge	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
24 AWG / 0.25 mm²	14	4.27	9	2.74	5.5	1.68	3.75	1.14	2.75	0.84	2.25	0.69	1.75	0.53	1.75	0.53
22 AWG / 0.34 mm²	22	6.71	14	4.27	9	2.74	5.75	1.75	4.5	1.37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

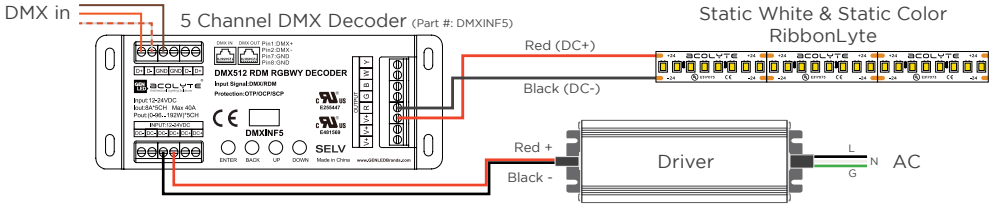
0-10 V



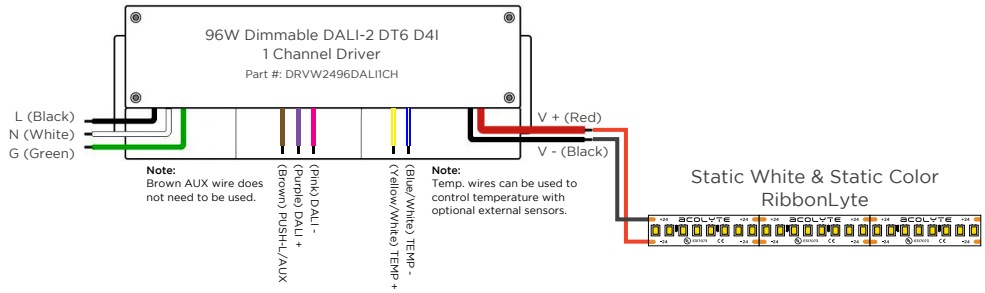
MLV / ELV



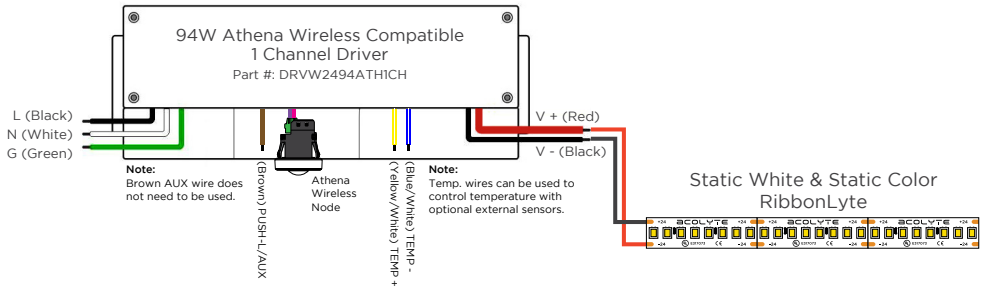
DMX WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



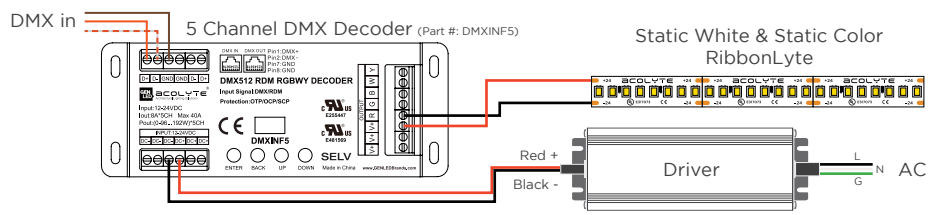
DALI-2 WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



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



DMX WITH STATIC WHITE & STATIC COLOR RIBBONLYTE

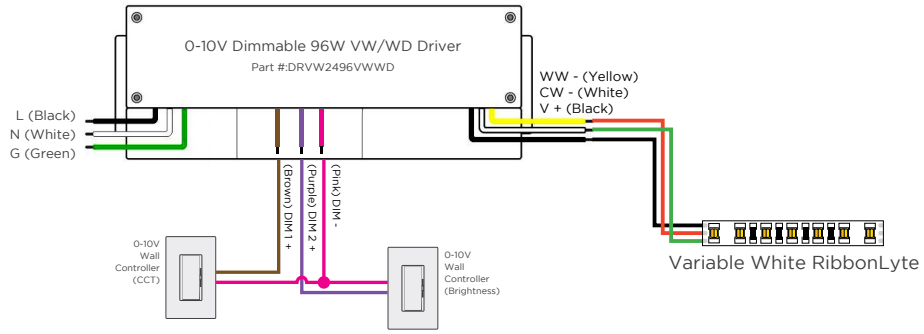


WIRE COLORS

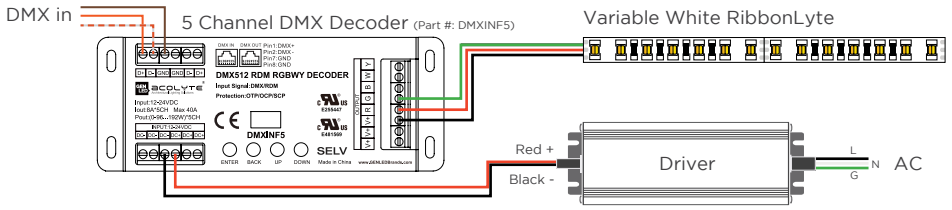
STATIC WHITE + STATIC COLOR
Red Wire (+) Positive
Black Wire (-) Negative

WIRING DIAGRAMS - VARIABLE WHITE

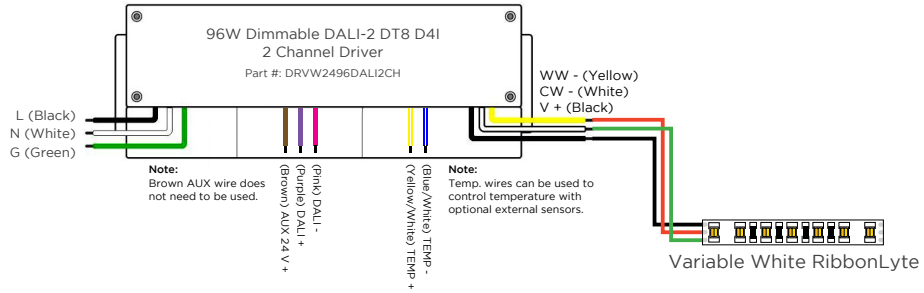
2-CHANNEL VARIABLE WHITE DIMMING



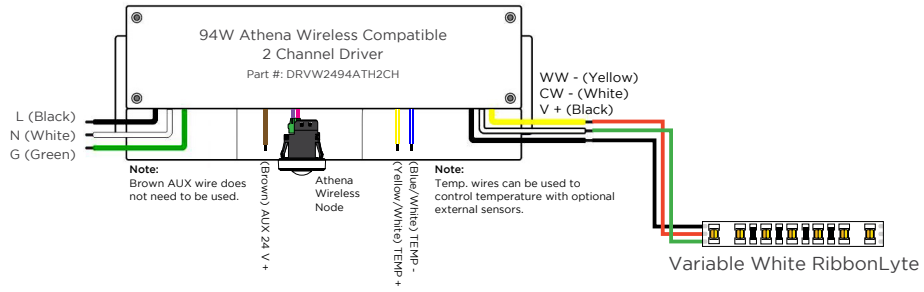
DMX WIRING WITH VARIABLE WHITE RIBBONLYTE



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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