GEN LED acolyte® Architectural Lighting Solutions

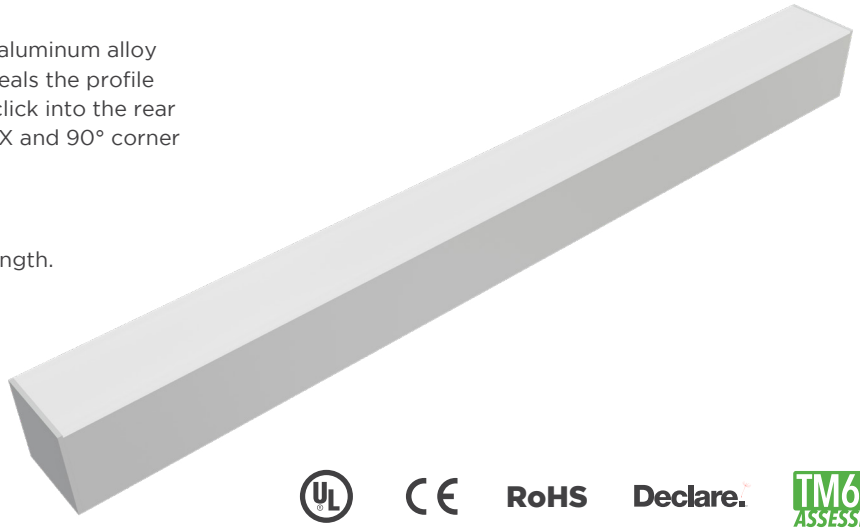
Date | Project

Notes

AS31 CHANNEL FIXTURE

AS31 channel is an extra-wide, flat surface mounted aluminum alloy extrusion. The sleek design includes a lens that conceals the profile edges in front view and hidden mounting clips that click into the rear of the channel. Elevate your lighting scheme with T, X and 90° corner connectors that don't require miter cuts.

- Extra-wide, flat profile
- Sold by the foot. Factory or field cuttable to any length.
- 114x114° beam angle
- Clear, Milky, or Black lens
- T, X, 180° and three 90° corner connectors



UL CE RoHS Declare. TM66 ASSESSED

HOUSING FINISHES



Silver Standard | **Black** | **White**

AVAILABLE LENS FINISHES



Clear Lens (PC)
85% Light Transmission

Milky Lens (PC)
65% Light Transmission

Black Lens (PC)
55% Light Transmission

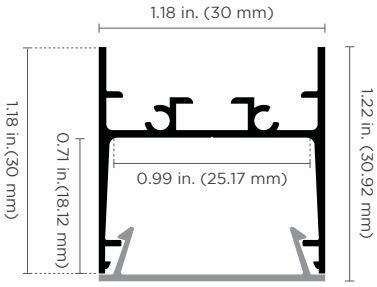
AVAILABLE COLORS & COLOR TEMPERATURES



1800K | 2000K | 2200K | 2400K | 2700K | 3000K | 3500K | 4000K | 6000K | VW | WD | Red | Amber | Green | Blue | RGBW | RGBA | RGBWW | RGB

DIMENSIONS

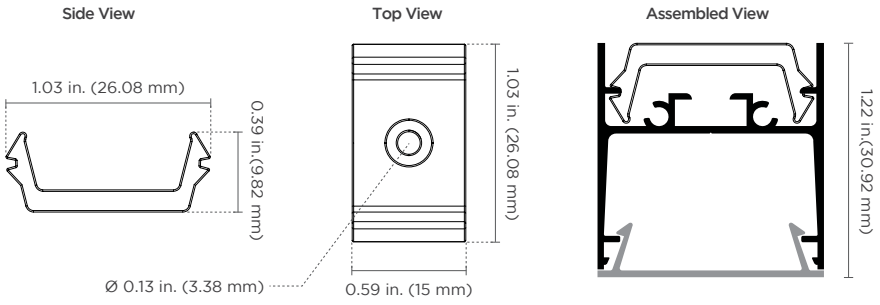
AS31 Channel



Width: 1.18 in. (30 mm)
Height: 1.22 in. (30.92 mm)
Internal Width: 0.99 in. (25.17 mm)

Mounting Clip

Material: PETG



Width: 0.59 in. (15 mm)
Height: 039 in.(9.82 mm)
Length: 1.03 in. (26.08 mm)



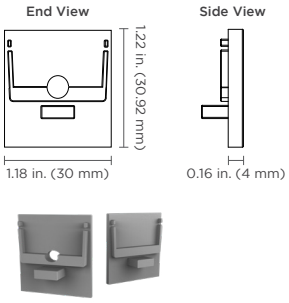
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SPECIFICATIONS

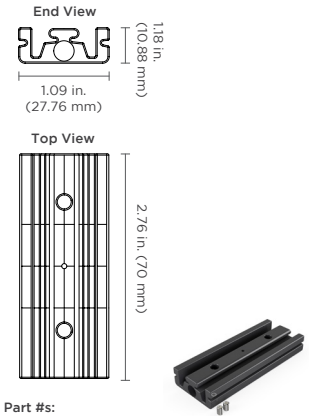
Beam Angle	114X114°
Lens Type	Clear Lens (PC), Milky Lens (PC), Black Lens (PC)
Length	Channel is sold by the foot and cut to your exact desired length
Operating Voltage	24 V
Dimming	MLV / ELV / 0-10 Volt / DALI / CASAMBI
Operating Temperature	-40 — 158 °F (-40 — 70 °C)
Colors	1800K, 2000K, 2200K, 2400K, 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
Material: PETG

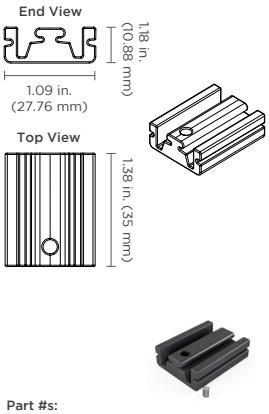


180° Connector
Material: PETG



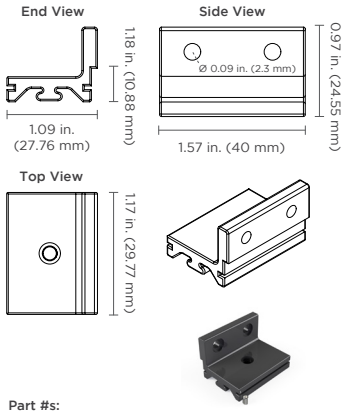
Part #s:
CHAS31180CNTSV (Silver)

Magnetic Mount
Material: PETG



Part #s:
CHAS31MMSV (Silver)
CHAS31MMBK (Black)
CHAS31MMWH (White)

Wall Mounting Bracket
Material: PETG



Part #s:
CHAS31WMBSV (Silver)
CHAS31WMBBK (Black)
CHAS31WMBWH (White)

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		Compatibility with AS31 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)	149	489	✓	✓	✓	✓	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

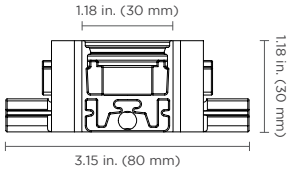
A x B x C = Lumen Output

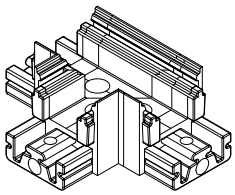
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ACCESSORIES (CONTINUE)

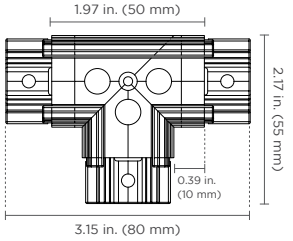
T Connector
Material: PETG

End View





End View

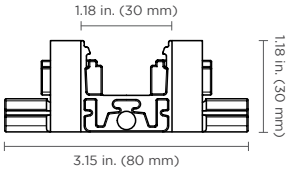


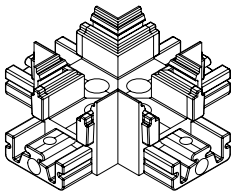


Part #s:
CHAS31TCNTSV (Silver)
CHAS31TCNTK (Black)
CHAS31TCNTH (White)

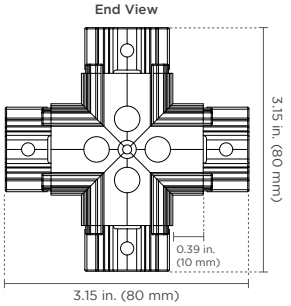
X Connector
Material: PETG

End View





End View

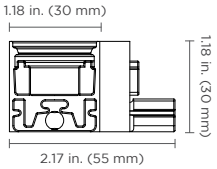


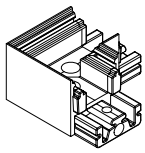


Part #s:
CHAS31XCNTSV (Silver)
CHAS31XCNTBK (Black)
CHAS31XCNTWH (White)

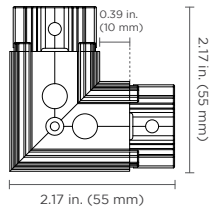
90° Corner Connector
Material: PETG

End View





Top View

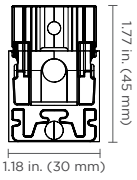




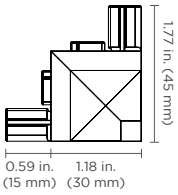
Part #s:
CHAS3190CCNTSV (Silver)
CHAS3190CCNTBK (Black)
CHAS3190CCNTWH (White)

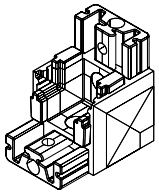
90° Vertical
Inner Corner Connector
Material: PETG

End View



Side View



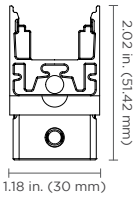




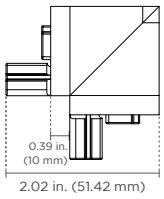
Part #s:
CHAS3190ICCNTSV (Silver)
CHAS3190ICCNTBK (Black)
CHAS3190ICCNTWH (White)

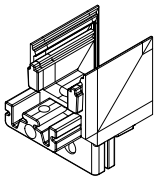
90° Vertical
Outer Corner Connector
Material: PETG

End View



Side View







Part #s:
CHAS3190OCCNTSV (Silver)
CHAS3190OCCNTBK (Black)
CHAS3190OCCNTWH (White)

ORDERING GUIDE

STEP 1 Complete Channel Part Number

CHANNEL	LENS		HOUSING COLOR
CHAS31			
CHAS31 - AS31 Channel	**C** - Clear Lens	**BK** - Black Lens	**SV** - Silver (default)
	M - Milky Lens		**BK** - Black
			WH - White

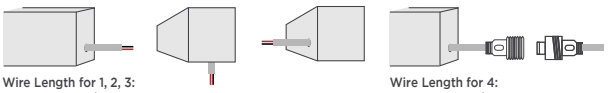
STEP 2 Complete RibbonLyte Part Number

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	**RGBWW20** - RGBWW 5-in-1 IP20
	90 - 90+ CRI Static White	**SWS265** - Static White Series 2 IP65	**RGBWS220** - RGBW Series 2 IP20	**RGBWW69** - RGBWW 5-in-1 IP69
		SWS268 - Static White Series 2 IP68	**RGBWS265** - RGBW Series 2 IP65	**RGBWADD** - Addressable RGBW IP67
		SWS269 - Static White Series 2 IP69	**RGBWS268** - RGBW Series 2 IP68	**RGBADD** - Pixel RGB IP20
		SCS220 - Static Color Series 2 IP20	**RGBWS269** - RGBW Series 2 IP69	**WD20** - Warm Dim IP20
		SCS265 - Static Color Series 2 IP65	**VWS220** - VW Series 2 IP20	**WD65** - Warm Dim IP65
		SCS268 - Static Color Series 2 IP68	**VWS265** - VW Series 2 IP65	**WD68** - Warm Dim IP68
		SCS269 - Static Color Series 2 IP69	**VWS268** - VW Series 2 IP68	**WD69** - Warm Dim IP69
NOTE: To ensure waterproofing standards are met, IP65/IP68/IP69 RibbonLyte can NOT be cut in the field.		**SWDR20** - Static White Double Row IP20	**VWS269** - VW Series 2 IP69	**XACTA20** - Xacta RibbonLyte IP20
		VWDR20 - Variable White Double Row IP20	**LINEA20** - Linea RibbonLyte IP20	

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	**RGBW30** - RGB + 3000K Addressable
5.2 - 5.2 W/ft (17.1 W/m - Warm Dim)	**60** - 6000K	**RGBW40** - RGB + 4000K Addressable
5.0 - 5.0 W/ft (16.4 W/m - Static White, Static Color)	**R** - Red	**RGBW60** - RGB + 6000K Addressable
5.5 - 5.5 W/ft (18.0 W/m - RGBW, RGBA)	**A** - Amber	**RGBS** - Pixel RGB (SPI)
6.0 - 6.0 W/ft (19.7 W/m - Static White, Static Color, Variable White, Addressable RGBW)	**G** - Green	**2920** - Warm Dim 2900K-2000K (IP20)
6.1 - 6.1 W/ft (20 W/m - Variable White Linea, Pixel RGB)	**B** - Blue	**1830** - Warm Dim 3000K-1800K (IP20)
8.8 - 8.8 W/ft (28.86 W/m - RGBW, RGBWW)		**2721** - Warm Dim 2700K-2100K (IP65/IP68/IP69)
12.0 - 12.0 W/ft (39.4 W/m - Static White, Variable White)		**Z** - Undecided (For quotes only. Must be chosen before final order.)

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)

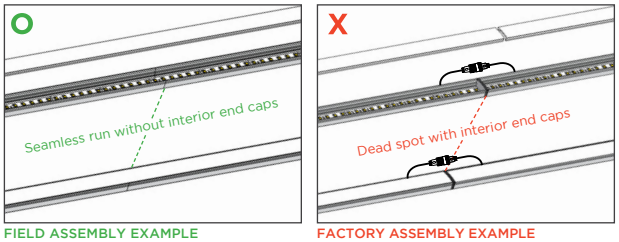
FI - Field Assembly

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

180° Connector:
CHAS31180CNTSV (Silver)

T Connector:
CHAS31TCNTSV (Silver)
CHAS31TCNTK (Black)
CHAS31TCNTH (White)

X Connector:
CHAS31XCNTSV (Silver)
CHAS31XCNTBK (Black)
CHAS31XCNTWH (White)

Square 90° Corner Connector:
CHAS3190CCNTSV (Silver)
CHAS3190CCNTBK (Black)
CHAS3190CCNTWH (White)

Square 90° Vertical Inner Corner Connector:
CHAS3190ICCNTSV (Silver)
CHAS3190ICCNTBK (Black)
CHAS3190ICCNTWH (White)

Square 90° Vertical Outer Corner Connector:
CHAS3190OCCNTSV (Silver)
CHAS3190OCCNTBK (Black)
CHAS3190OCCNTWH (White)

Magnetic Mount:
CHAS31MMSV (Silver)
CHAS31MMBK (Black)
CHAS31MMWH (White)

Wall Mounting Bracket:
CHAS31WMBSV (Silver)
CHAS31WMBBK (Black)
CHAS31WMBWH (White)

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



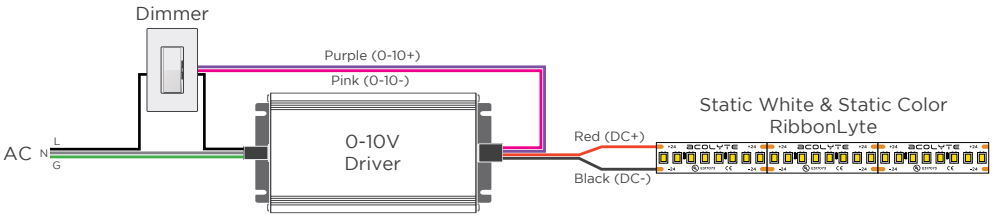
DMX OPTO SPLITTER
Part No.: DMXOS8

DRIVER AND RIBBONLYTE AT FULL LOAD

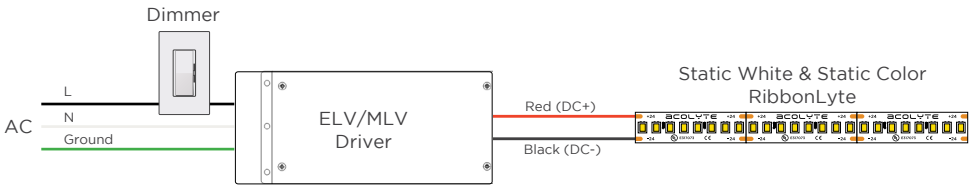
Wattages	30		60		96		150		200		240		300		320	
Wire Gauge	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
24 AWG / 0.25 mm²	14	4.27	9	2.74	5.5	1.68	3.75	1.14	2.75	0.84	2.25	0.69	1.75	0.53	1.75	0.53
22 AWG / 0.34 mm²	22	6.71	14	4.27	9	2.74	5.75	1.75	4.5	1.37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

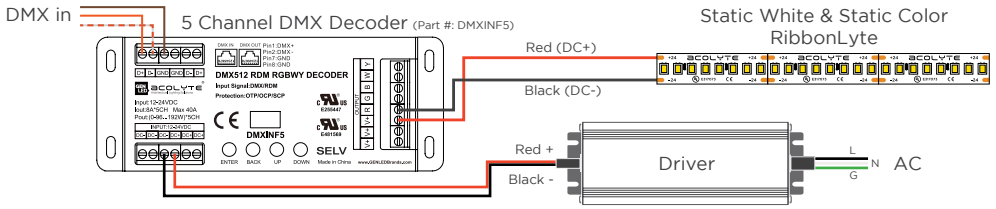
0-10 V



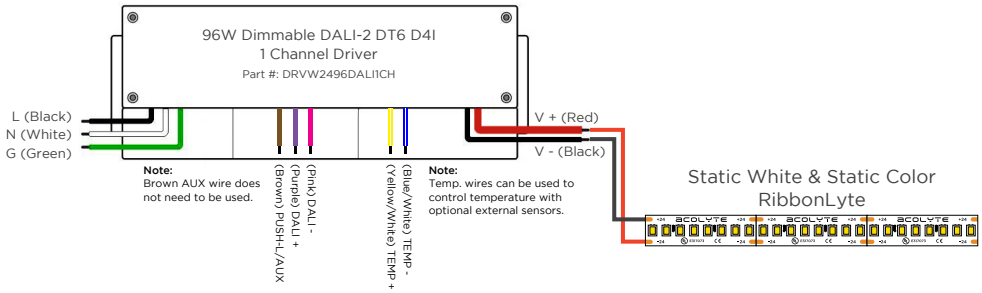
MLV / ELV



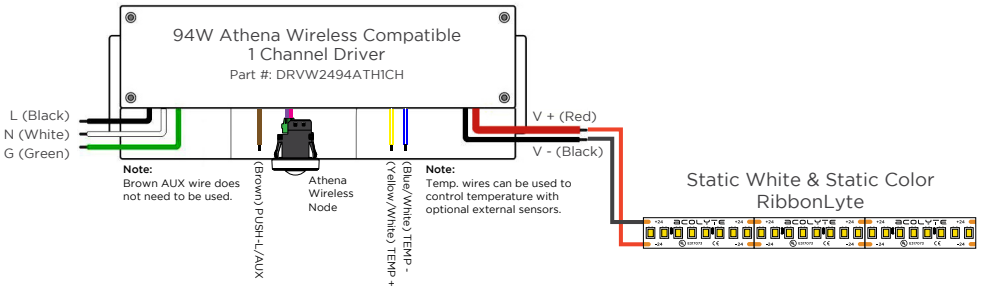
DMX WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



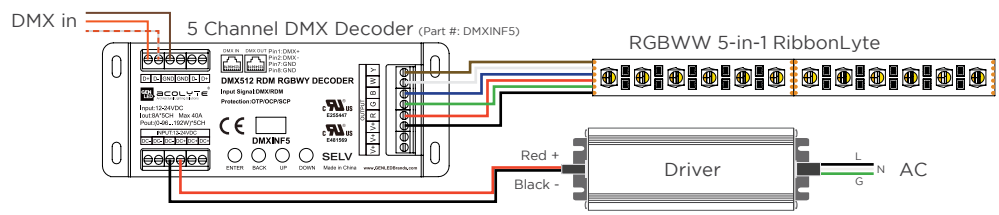
DALI-2 WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



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



DMX WITH RGBWW 5-IN-1 RIBBONLYTE



WIRE COLORS

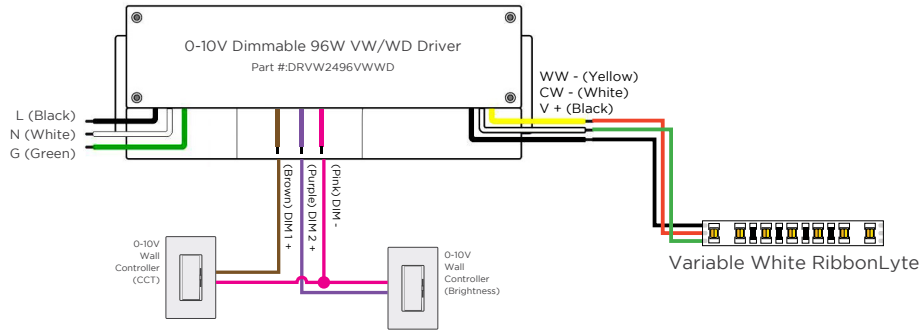
STATIC WHITE + STATIC COLOR
Red Wire (+) Positive
Black Wire (-) Negative

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

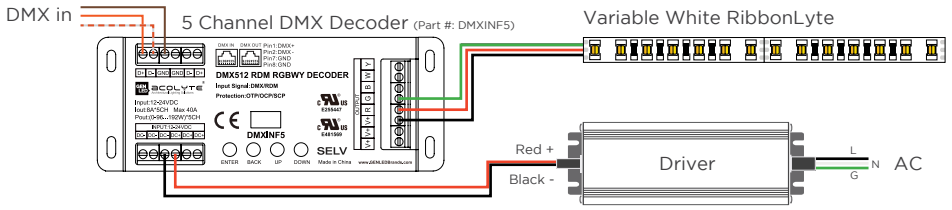
RGBWW
Black (+) Positive
Green Wire (-) goes to Green Channel
Red Wire (-) goes to Red Channel
Blue Wire (-) goes to Blue Channel
White Wire (-) goes to White Channel 1
Brown Wire (-) goes to White Channel 2

WIRING DIAGRAMS - VARIABLE WHITE

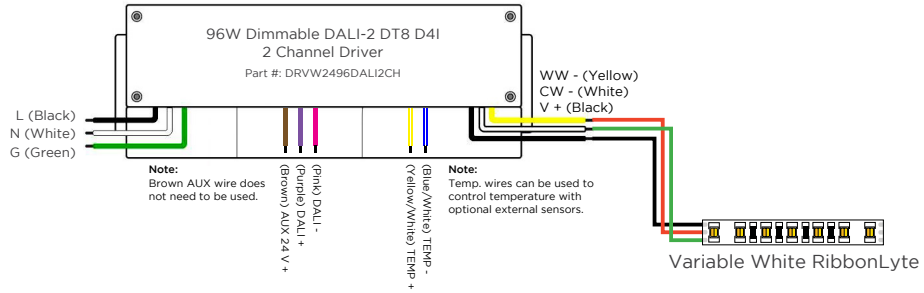
2-CHANNEL VARIABLE WHITE DIMMING



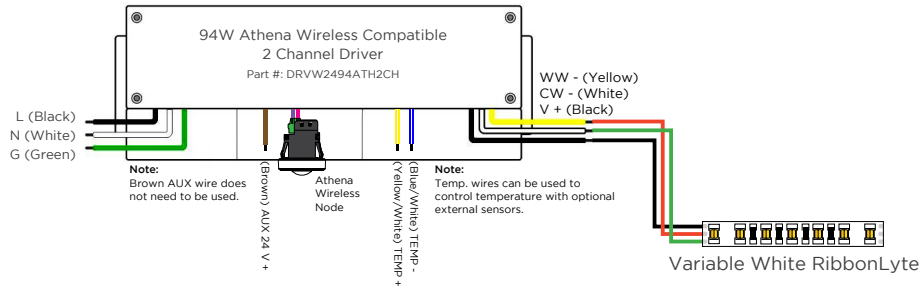
DMX WIRING WITH VARIABLE WHITE RIBBONLYTE



DALI-2 WIRING WITH VARIABLE WHITE RIBBONLYTE



VARIABLE WHITE RIBBONLYTE WIRING WITH ATHENA WIRELESS COMPATIBLE DRIVER



WIRE COLORS

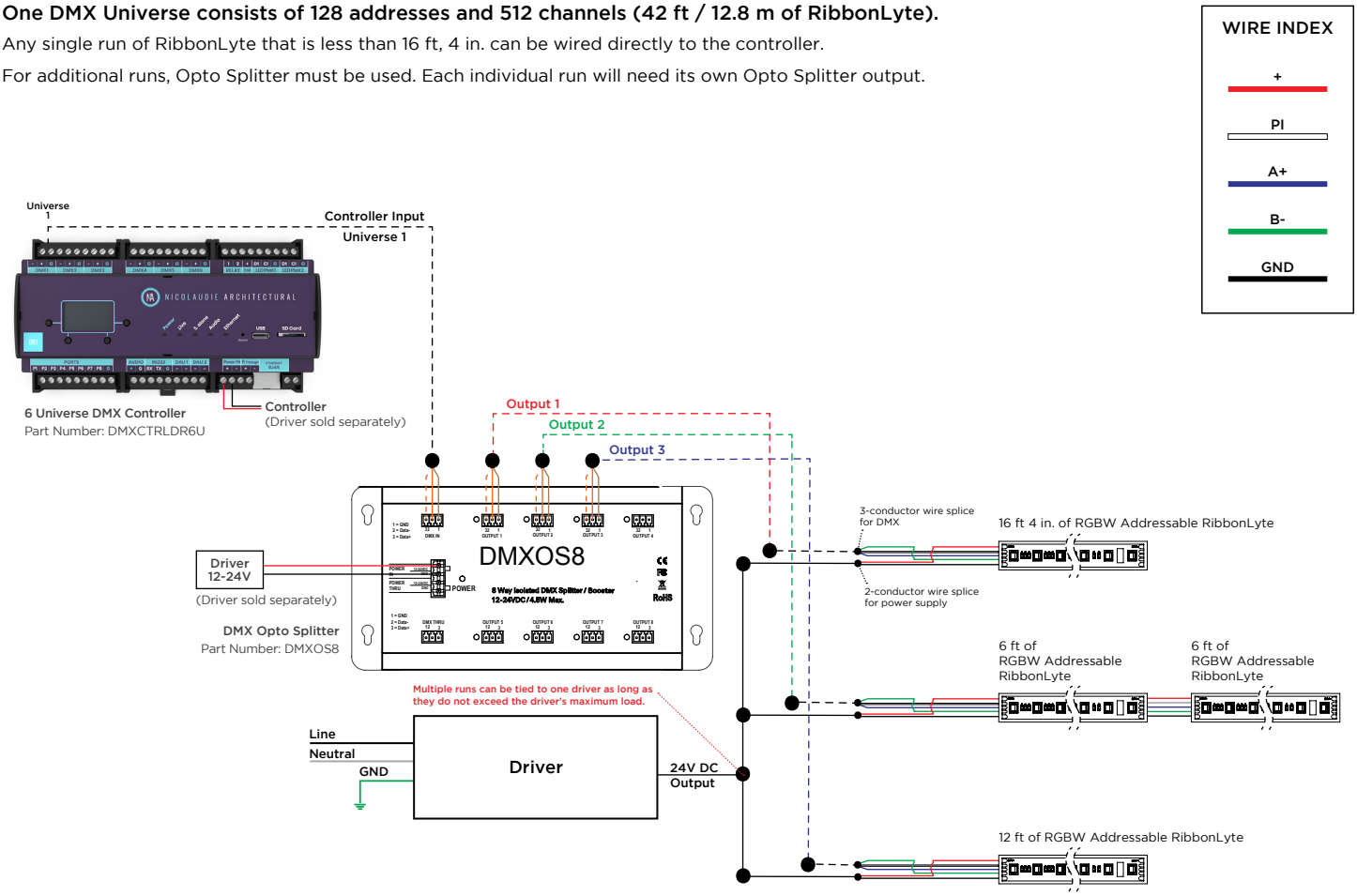
VARIABLE WHITE
Black Wire (+) Positive
Red Wire (-) goes to Warm White Channel
Green Wire (-) goes to Cool White Channel

WIRING DIAGRAMS WITH RGBW ADDRESSABLE RIBBONLYTE

One DMX Universe consists of 128 addresses and 512 channels (42 ft / 12.8 m of RibbonLyte).

Any single run of RibbonLyte that is less than 16 ft, 4 in. can be wired directly to the controller.

For additional runs, Opto Splitter must be used. Each individual run will need its own Opto Splitter output.



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