

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

HOUSING FINISHES



Silver Black* White*
Standard

*Additional fee applies

AVAILABLE LENS FINISHES



Clear Lens (PC)
85% Light Transmission



Milky Lens (PC)
65% Light Transmission



Black Lens (PC)
55% Light Transmission



RoHS

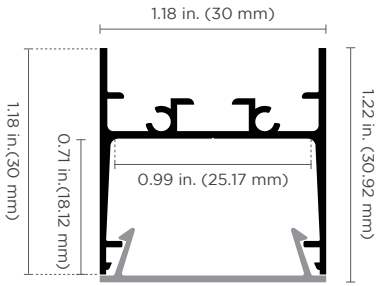
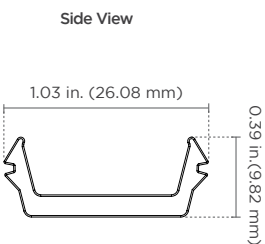
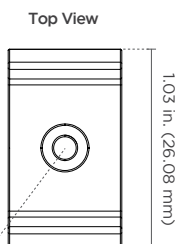
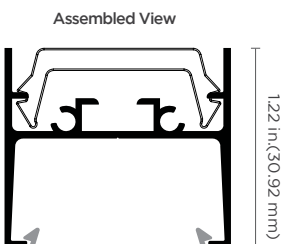
Declare.



AVAILABLE COLORS & COLOR TEMPERATURES



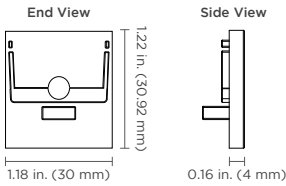
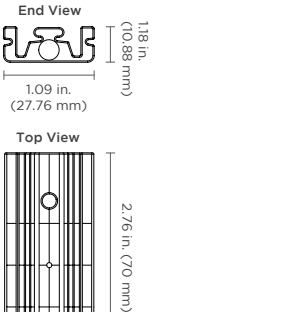
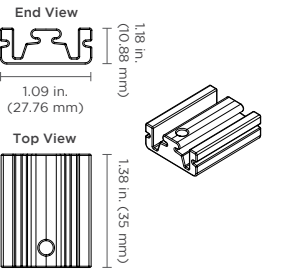
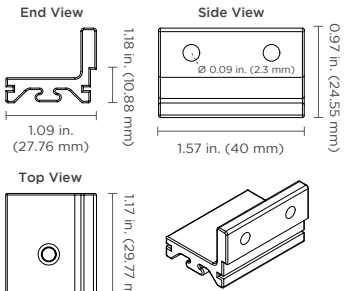
DIMENSIONS

AS31 Channel	Mounting Clip
 Width: 1.18 in. (30 mm) Height: 1.22 in. (30.92 mm) Internal Width: 0.99 in. (25.17 mm)	Material: PETG    Width: 0.59 in. (15 mm) Height: 0.39 in. (9.82 mm) Length: 1.03 in. (26.08 mm) Part #: CHAS31MCSV (Silver) CHAS31MCBK (Black) CHAS31MCWH (White) 

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

ACCESSORIES

End Cap Material: PETG	180° Connector Material: PETG	Magnetic Mount Material: PETG	Wall Mounting Bracket Material: PETG
 End cap with hole part #s: CHAS31ECSV (Silver) CHAS31ECBH (Black) CHAS31ECVH (White) End cap without hole part #s: CHAS31ECNHSV (Silver) CHAS31ECNHBK (Black) CHAS31ECNHHW (White)	 Part #s: CHAS31180CNTSV (Silver) CHAS31180CNTBK (Black) CHAS31180CNTWH (White)	 Part #s: CHAS31MMSV (Silver) CHAS31MMBK (Black) CHAS31MMWH (White)	 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 Visible = Y Not Visible = N
						lm/ft	lm/m	IP20	IP65	IP68	IP69	
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)

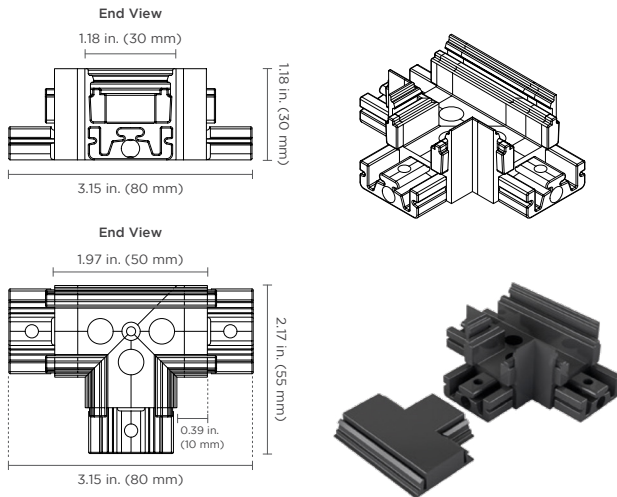
Wattage	0.75 w/ft	1.5 w/ft	2.2 w/ft	3.0 w/ft	4.4 w/ft	5.0 w/ft	6.0 w/ft
C Multiplier	0.26	0.51	0.73	1.00	1.45	1.60	1.96

A x **B** x **C** = Lumen Output

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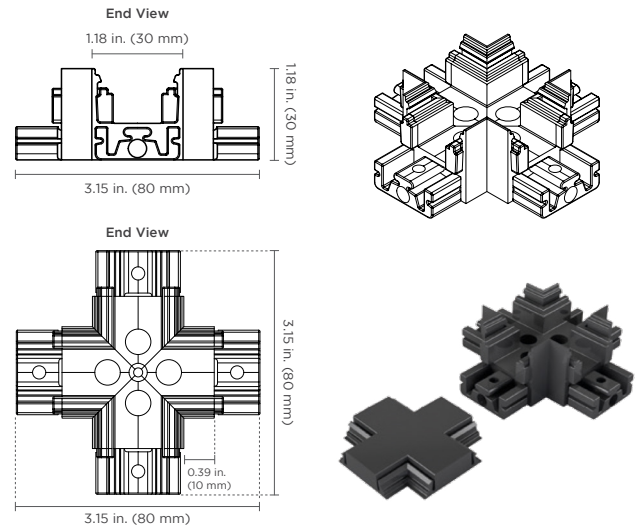
ACCESSORIES (CONTINUE)

T Connector
Material: PETG



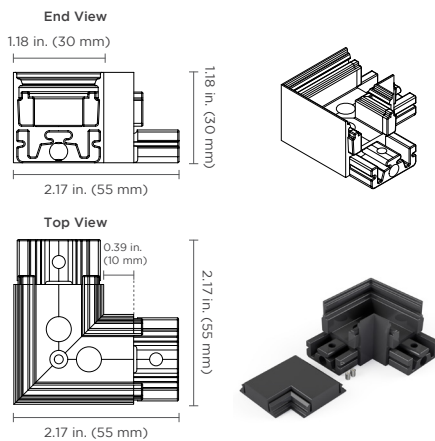
Part #s:
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CHAS31TCNTBK (Black)
CHAS31TCNTWH (White)

X Connector
Material: PETG



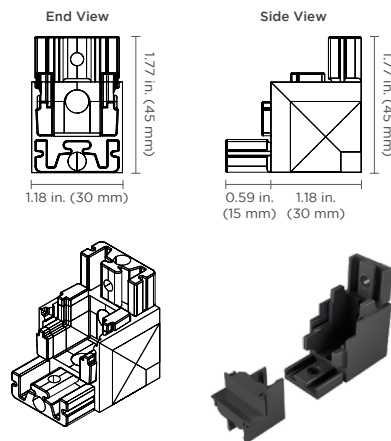
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CHAS31XCNTBK (Black)
CHAS31XCNTWH (White)

90° Corner Connector
Material: PETG



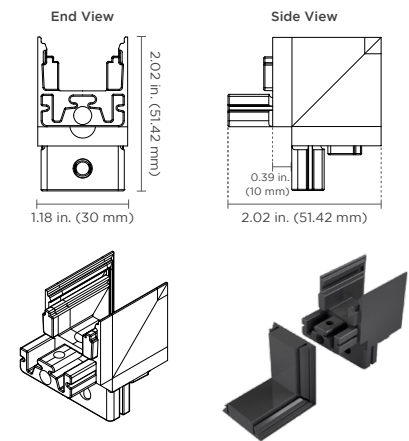
Part #s:
CHAS3190CCNTSV (Silver)
CHAS3190CCNTBK (Black)
CHAS3190CCNTWH (White)

90° Vertical Inner Corner Connector
Material: PETG



Part #s:
CHAS3190ICNTSV (Silver)
CHAS3190ICNTBK (Black)
CHAS3190ICNTWH (White)

90° Vertical Outer Corner Connector
Material: PETG



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 M - Milky Lens	SV - Silver (default) BK - Black * WH - White * * Additional fee applies Consult factory for custom colors

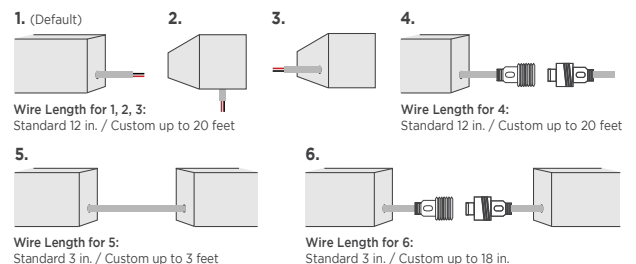
STEP 2 Complete RibbonLyte Part Number

CATEGORY	CRI	RIBBON TYPE & IP RATING		
RB				
RB - RibbonLyte	0 - Static Color, Color Changing 90 - 90+ CRI Static White	SWS220 - Static White Series 2 IP20 SWS265 - Static White Series 2 IP65 SWS268 - Static White Series 2 IP68 SWS269 - Static White Series 2 IP69 SCS220 - Static Color Series 2 IP20 SCS265 - Static Color Series 2 IP65 SCS268 - Static Color Series 2 IP68 SCS269 - Static Color Series 2 IP69 SWDR20 - Static White Double Row IP20 VWDR20 - Variable White Double Row IP20	RGBWW20 - RGBWW 5-in-1 IP20 RGBWS220 - RGBW Series 2 IP20 RGBWS265 - RGBW Series 2 IP65 RGBWS268 - RGBW Series 2 IP68 RGBWS269 - RGBW Series 2 IP69 VWS220 - VW Series 2 IP20 VWS265 - VW Series 2 IP65 VWS268 - VW Series 2 IP68 VWS269 - VW Series 2 IP69 LINEA20 - Linea RibbonLyte IP20	RGBWW20 - RGBWW 5-in-1 IP20 RGBWW69 - RGBWW 5-in-1 IP69 RGBWADD - Addressable RGBW IP67 RGBADD - Pixel RGB IP20 WD20 - Warm Dim IP20 WD65 - Warm Dim IP65 WD68 - Warm Dim IP68 WD69 - Warm Dim IP69 XACTA20 - Xacta RibbonLyte IP20

NOTE: To ensure waterproofing standards are met, IP65/IP68/IP69 RibbonLyte can NOT be cut in the field.

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	
2 - Back Feed Bare Wire Connection	
3 - Side Feed Bare Wire Connection	
4 - End Feed with IP67 Male Coupler	
5 - Soldered Daisy Chain	
6 - Daisy Chain With IP67 Couplers	


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.

STEP 4 Add Accessories

180° Connector:
CHAS31180CNTSV (Silver)
CHAS31180CNTBK (Black)
CHAS31180CNTWH (White)

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

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

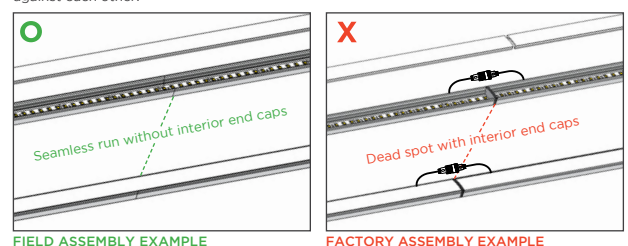
T Connector:
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CHAS31TCNTWH (White)

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

Wall Mounting Bracket:
CHAS31WMBVS (Silver)
CHAS31WMBBK (Black)
CHAS31WMBWH (White)

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

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



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

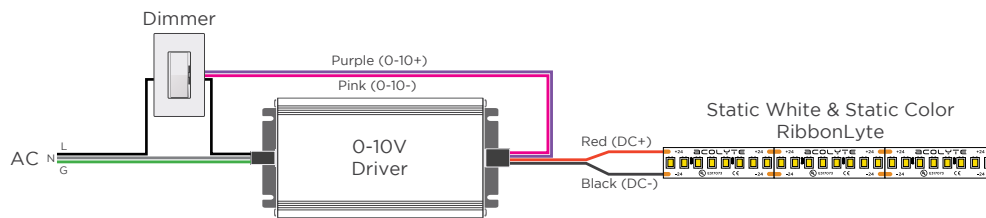
				
GLASS TOUCH WALL CONTROLLERS Part No.: • AWCRCBWWBK • AWCVWBK	1 ZONE WALL CONTROLLER Part No.: DMXCTRLG	5 ZONE WALL CONTROLLER Part No.: DMXCTRL	10 ZONE WALL CONTROLLER Part No.: DMXCTRLD	6 UNIVERSE DMX CONTROLLER Part No.: DMXCTRLDR6U
				
VARIABLE WHITE DIMMER Part No.: • RFDIMVWWH (White) • RFDIMVWBK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

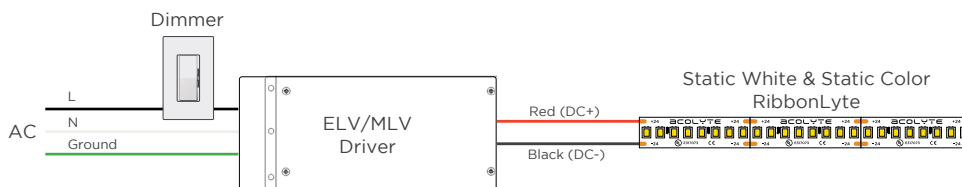
Wattages	30		60		96		150		200		240		300		320	
Wire Gauge	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
24 AWG / 0.25 mm ²	14	4.27	9	2.74	5.5	1.68	3.75	1.14	2.75	0.84	2.25	0.69	1.75	0.53	1.75	0.53
22 AWG / 0.34 mm ²	22	6.71	14	4.27	9	2.74	5.75	1.75	4.5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

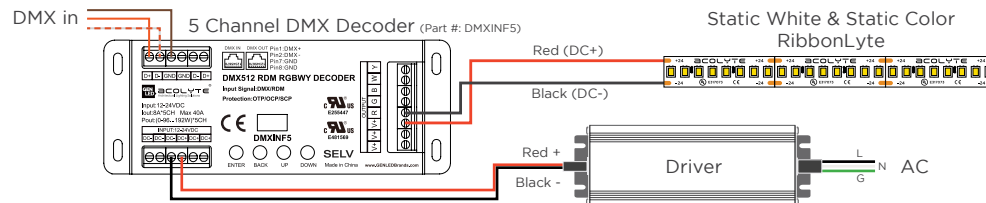
0-10 V



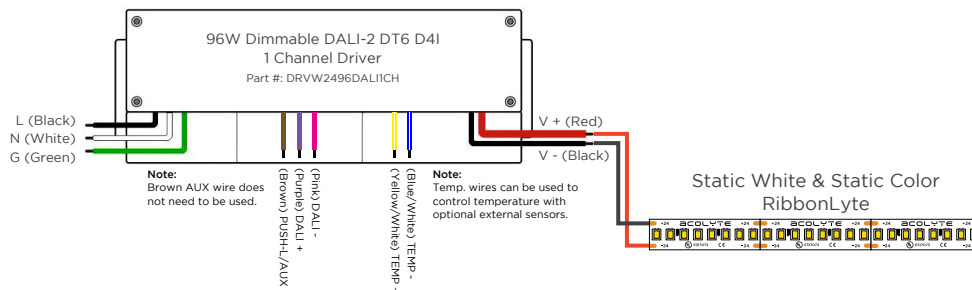
MLV / ELV



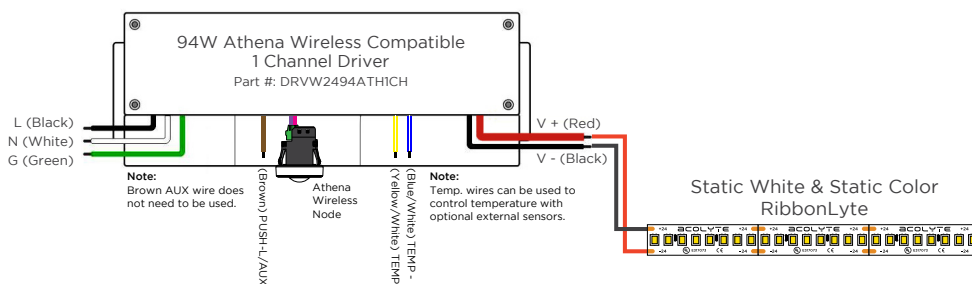
DMX WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



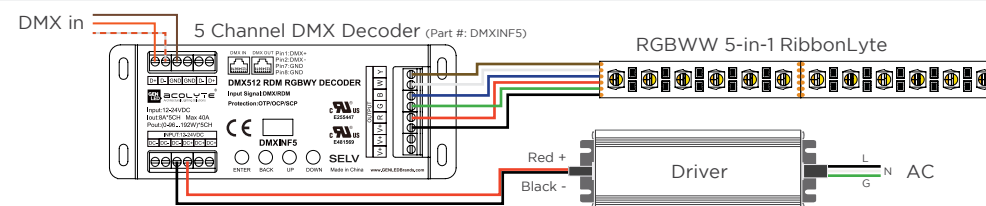
DALI-2 WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



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

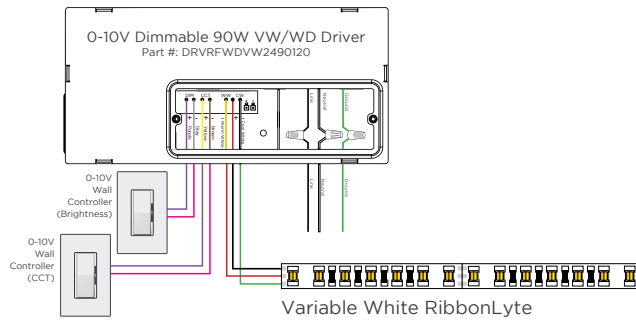
Red Wire (+) Positive
Green Wire (-) goes to Green Channel
Red Wire (-) goes to Red Channel
Blue Wire (-) goes to Blue Channel
White Wire (-) goes to White Channel

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

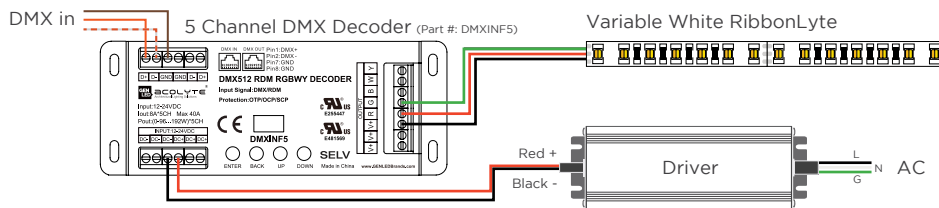


WIRE COLORS PER RIBBONLYTE COLOR

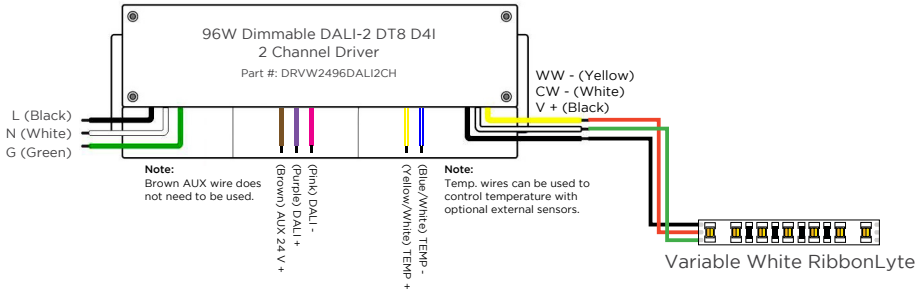
VARIABLE WHITE

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

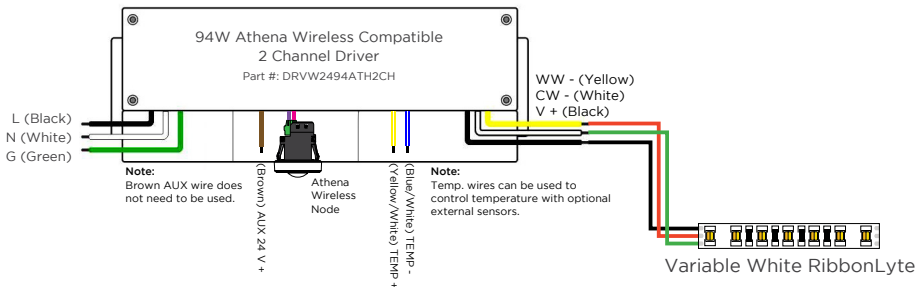
DMX WIRING WITH VARIABLE WHITE RIBBONLYTE



DALI-2 WIRING WITH VARIABLE WHITE RIBBONLYTE



VARIABLE WHITE RIBBONLYTE WIRING WITH ATHENA WIRELESS COMPATIBLE DRIVER

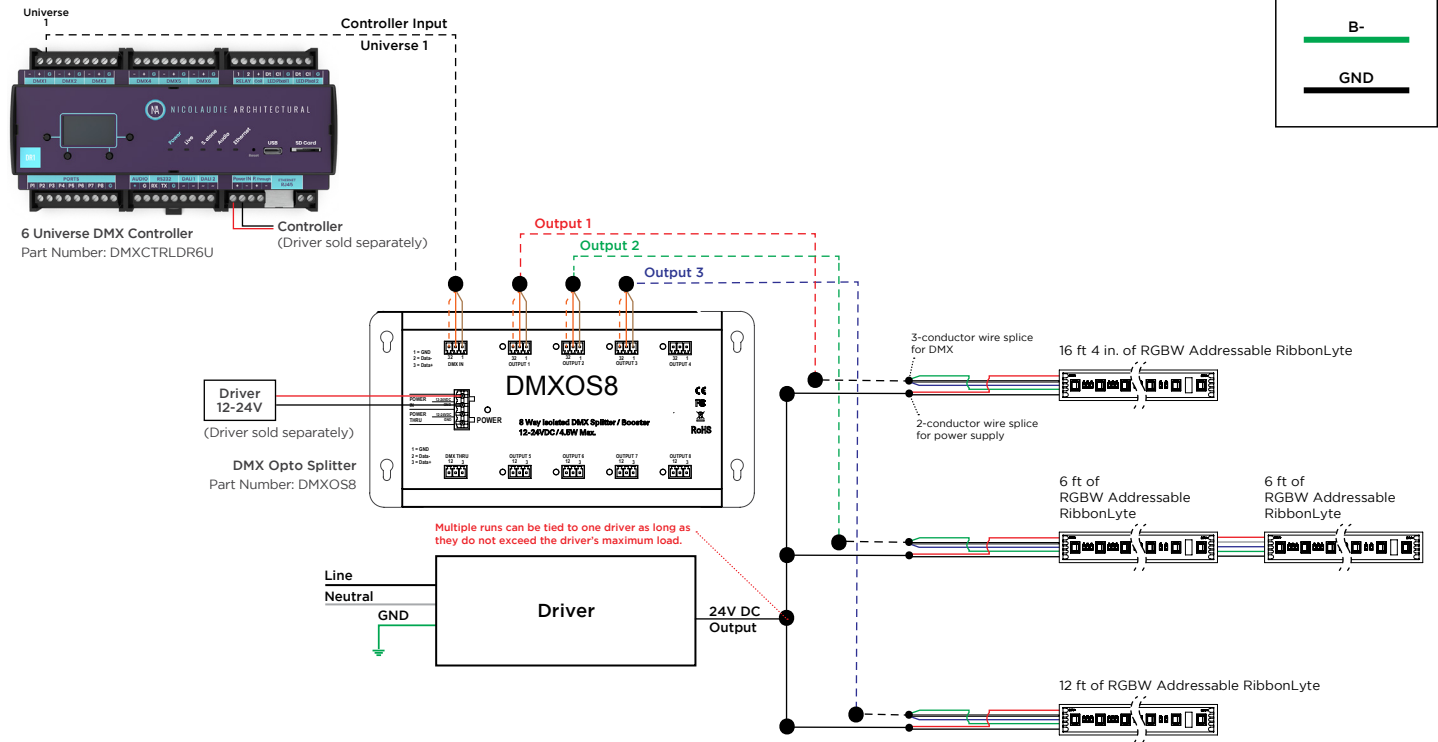


WIRING DIAGRAMS WITH RGBW ADDRESSABLE RIBBONLYTE

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.



REV.06JUL2026

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