

Date _____ Project _____

Notes _____

AR10 CHANNEL FIXTURE

Our AR10 Channel Fixture is a recessed fixture with a 110-degree beam angle. We offer choices of clear, frosted and milky lenses to create a full range of light output options. Design a sleek custom fixture for walls, ceilings or furniture with AR10 Channel Fixture and our RibbonLyte products.

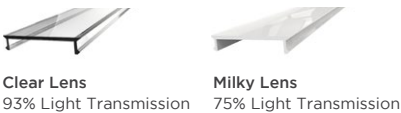
- Available for field assembly or factory assembly
- 0.74 in. (18.8 mm) wide by 0.47 in. (12 mm) deep
- 110-degree beam angle
- Wattage Range from 0.75 W/ft (2.46 W/m) to 6.0 W/ft (19.7 W/m)
- Static White delivered lumen range from 21 lm/ft (70 lm/m) up to 516 lm/ft (1692 lm/m)
- Clear Lens or Milky Lens

HOUSING FINISHES

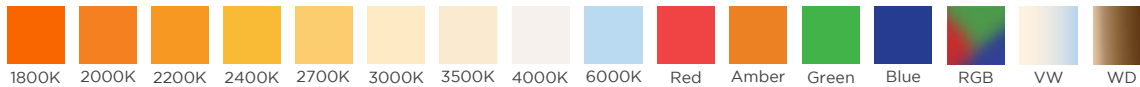


*Additional fee applies

LENS FINISHES



AVAILABLE COLORS & COLOR TEMPERATURES



DIMENSIONS

AR10 Channel	Mounting Clip (included accessory)		
<p>Width: 0.74 in. (18.8 mm) Height: 0.47 in. (12 mm) Internal Width: 0.39 in. (10 mm) Internal Height: 0.44 in. (11.2 mm)</p>	<p>Side View</p> <p>Width: 0.52 in. (13.1 mm) Length: 0.63 in. (16 mm)</p>	<p>Top View</p>	<p>Assembled View</p> <p>Width: 0.74 in. (18.8 mm) Height (Option 1): 0.56 in. (14.3 mm) Height (Option 2): 0.5 in. (12.8 mm)</p>



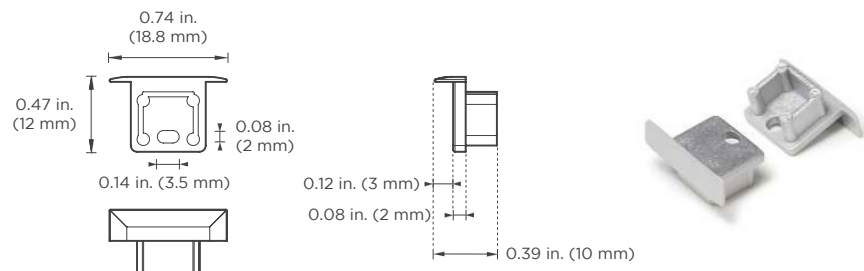
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SPECIFICATIONS

Beam Angle	110°
Lens Type	Clear Lens, Milky Lens
Length	Channel is sold by the foot and cut to your exact desired length. Required amount of mounting clips included.
Operating Voltage	24V
Dimming	MLV / 0-10 Volt / Lutron Hi-Lume 1% dimming & Hi-Lume Premier 0.1% L3D0 LED drivers / Lutron VIVE code compliance available / ELV / DALI
Operating Temperature	-40° F to 158° F (-40° C to 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 (Static white only)
Lamp Life	L70 at 50,000 Hours
MacAdam Ellipses (SDCM)	2-Step Binning (For Static White LEDs only)
Certifications	ETL 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 UL 2108 - Low Voltage Lighting Systems UL 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products UL 1598 / CSA 250.0-08 - Luminaires

ACCESSORIES

End Caps with Hole



ORDERING GUIDE

STEP 1 Complete Channel Part Number

CHANNEL	LENS	HOUSING COLOR	
CHAR10			
CHAR10 - AR10 Channel	C - Clear Lens M - Milky Lens	SV - Silver BK - Black	WH - White Consult factory for custom colors

STEP 2 Complete RibbonLyte Part Number

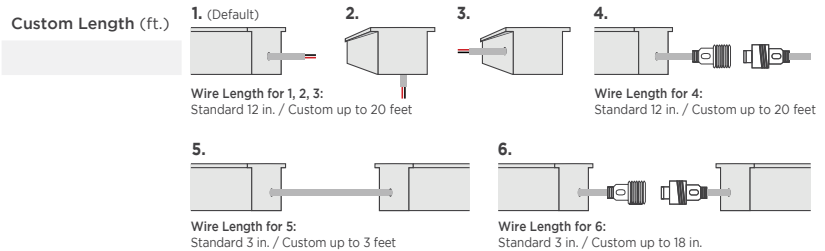
CATEGORY	CRI	RIBBON TYPE & IP RATING	
RB			
RB - RibbonLyte	0 - Static Color, Color Changing 90 - 90+ CRI Static White	SWS220 - Static White Series 2 IP20 SWS265 - Static White Series 2 IP65 SCS220 - Static Color Series 2 IP20 SCS265 - Static Color Series 2 IP65	VWS220 - VW Series 2 IP20 VWS265 - VW Series 2 IP65

NOTE: To ensure waterproofing standards are met, IP65 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 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)	22 - 2200K G - Green
2.2 - 2.2 W/ft (7.2 W/m - Static White, Static Color)	24 - 2400K B - Blue
3.0 - 3.0 W/ft (9.8 W/m - Static White, Static Color, Variable White)	27 - 2700K VW - Variable White
4.4 - 4.4 W/ft (14.4 W/m - Static White, Static Color)	30 - 3000K Z - Undecided**
6.0 - 6.0 W/ft (19.7 W/m - Variable White)	35 - 3500K ** 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
- 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 78 in. / 2 m)
FI - Field Assembly	
FA - Factory Assembly	

RIBBONLYTE SPECIFICATIONS & COMPATIBILITY

Available Wattages	Cutttable Length	LED Pitch	Color Temp.	lm/W without Lens	Delivered Lumens with Clear Lens (lm/ft / lm/m)	Delivered Lumens with Milky Lens (lm/ft / lm/m)	Max Length	Compatible with Channel		
								IP20	IP65	IP68
0.75 Static White Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	1800K	84	59 / 192	47 / 155	IP20: 49 ft (15 m) IP65: 32.8 ft (10 m)	✓	✓	
			2000K	99	69 / 227	56 / 183				
			2200K	109	76 / 249	61 / 201				
			2400K	113	79 / 259	64 / 209				
			2700K	123	86 / 281	69 / 227				
			3000K	123	86 / 281	69 / 227				
			3500K	130	91 / 297	73 / 240				
			4000K	134	93 / 307	75 / 247				
			6000K	131	91 / 300	74 / 242				
1.5 Static White Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	1800K	84	117 / 384	95 / 310	IP20: 49 ft (15 m) IP65: 32.8 ft (10 m)	✓	✓	
			2000K	98	137 / 449	110 / 362				
			2200K	109	152 / 499	123 / 402				
			2400K	113	158 / 517	127 / 417				
			2700K	123	172 / 563	138 / 454				
			3000K	123	172 / 563	138 / 454				
			3500K	129	180 / 590	145 / 476				
			4000K	134	187 / 613	151 / 495				
			6000K	131	183 / 600	147 / 484				
2.2 Static White Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	1800K	83	169.8 / 557	137 / 449	IP20: 42 ft (12.8 m) IP65: 32.8 ft (10 m)	✓	✓	
			2000K	96	196.4 / 644	158 / 520				
			2200K	106	216.9 / 712	175 / 574				
			2400K	111	227.1 / 745	183 / 601				
			2700K	120	245.5 / 806	198 / 650				
			3000K	122	249.6 / 819	201 / 660				
			3500K	127	259.8 / 852	210 / 687				
			4000K	133	272.1 / 893	219 / 720				
			6000K	128	261.9 / 859	211 / 693				
3.0 Static White Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	1800K	84	234 / 769	189 / 620	IP20: 36 ft (11 m) IP65/IP68: 32.8 ft (10 m)	✓	✓	
			2000K	98	273 / 897	221 / 723				
			2200K	108	301 / 989	243 / 797				
			2400K	109.8	306 / 1005	247 / 811				
			2700K	122.9	343 / 1125	277 / 907				
			3000K	130	363 / 1190	293 / 960				
			3500K	133	371 / 1217	299 / 982				
			4000K	133	371 / 1217	299 / 982				
			6000K	128	357 / 1172	288 / 945				
4.4 Static White Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	1800K	81	331 / 1087	267 / 877	28 ft 4 in. (8.64 m)	✓	✓	
			2000K	95	389 / 1275	314 / 1029				
			2200K	105	430 / 1410	347 / 1137				
			2400K	109	446 / 1463	360 / 1180				
			2700K	122	499 / 1638	403 / 1321				
			3000K	129	528 / 1732	426 / 1397				
			3500K	132	540 / 1772	436 / 1429				
			4000K	132	540 / 1772	436 / 1429				
			6000K	126	516 / 1692	416 / 1364				

RIBBONLYTE SPECIFICATIONS & COMPATIBILITY

Available Watt-ages	Cuttable Length	LED Pitch	Color Temp.	lm/W without Lens	Delivered Lumens with Clear Lens (lm/ft / lm/m)	Delivered Lumens with Milky Lens (lm/ft / lm/m)	Max Length	Compatible with Channel		
								IP20	IP65	IP68
0.75 Static Color Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	Red	41	29 / 94	23 / 76	IP20: 49 ft (15 m) IP65: 32.8 ft (10 m)	✓	✓	
			Green	175	122 / 400	98 / 323				
			Blue	19	13.3 / 43	11 / 35				
			Amber	34	24 / 78	19 / 63				
1.5 Static Color Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	Red	42	59 / 192	47 / 155	IP20: 49 ft (15 m) IP65: 32.8 ft (10 m)	✓	✓	
			Green	160	223 / 732	180 / 591				
			Blue	18	25 / 82	20 / 66				
			Amber	34	47 / 156	38 / 125				
2.2 Static Color Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	Red	42	86 / 282	69 / 227	IP20: 42 ft (12.8 m) IP65: 32.8 ft (10 m)	✓	✓	
			Green	145	297 / 973	239 / 785				
			Blue	18	37 / 121	30 / 97				
			Amber	34	70 / 228	56 / 184				
3.0 Static Color Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	Red	40	112 / 366	90 / 295	32.8 ft (10 m)	✓	✓	
			Green	127	354 / 1162	286 / 937				
			Blue	25	70 / 229	56 / 185				
			Amber	29	81 / 265	65 / 214				
4.4 Static Color Series 2	1.97 in. (50 mm)	48 LEDs/ft (160 LEDs/m)	Red	38	155 / 510	125 / 411	29 ft (8.8 m)	✓	✓	
			Green	117	479 / 1571	386 / 1267				
			Blue	24	98 / 322	79 / 260				
			Amber	25	102 / 336	83 / 271				
1.0 Variable White Series 2	1.97 in. (50 mm)	42 LEDs/ft (140 LEDs/m)	2000K + 6500K	85	79 / 259	64 / 209	32.8 ft (10 m)	✓	✓	
3.0 Variable White Series 2	1.97 in. (50 mm)	42 LEDs/ft (140 LEDs/m)	2000K + 6500K	80	223 / 732	180 / 591	32.8 ft (10 m)	✓	✓	
6.0 Variable White Series 2	1.97 in. (50 mm)	42 LEDs/ft (140 LEDs/m)	2000K + 6500K	75	419 / 1373	337.5 / 1107	32.8 ft (10 m)	✓	✓	

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

 No Visible Diode = N		 With Visible Diode = Y	
Static White & Static Color RibbonLyte		Color Changing RibbonLyte	
0.75/1.5/2.2		3.0/4.4	Variable White
IP20		IP20	IP20
IP65		IP65	IP65
N		N	N

AVAILABLE DRIVERS

NON-DIMMING ELECTRONIC DRIVERS



**30W, 60W, 96W
Non-Dimming Electronic
Class 2 Drivers**

Part No.:

- DRVW2430 (30 Watt)
- DRVW2460 (60 Watt)
- DRVW2496 (96 Watt)

Output Voltage: 24 V
Voltage Range: 120-277 VAC
IP Rating: Dry or Damp
UL Listed



**240W, 320W
Non-Dimming
Electronic Drivers**

Part No.:

- DRVW24240 (240 Watt)
- DRVW24320 (320 Watt)

Output Voltage: 24 V
Voltage Range: 90-305 VAC
IP Rating: Dry or Damp
UL Recognized

LUTRON HI-LUME DRIVERS



**40W
Lutron Hi-Lume 1% Dimming
Class 2 Drivers**

Part No.:

- DRVLUT24403W (40 Watt, 3-wire)
- DRVLUT24402W (40 Watt, 2-wire)

Output Voltage: 24 V
Voltage Range: 120-277 VAC (3-wire model)
or 120V (2-wire model)
IP Rating: Dry or Damp
Dimmable using 2-wire forward phase,
3-wire+G or digital EcoSystem
UL Listed

ELV & MLV DRIVERS WITH COMPATIBLE DIMMERS



**60W, 96W, 150W, 300W
ELV/MLV Dimmable Drivers**

Part No.:

- DRVW2460ELVMLV (60 Watt)
- DRVW2496ELVMLV (96 Watt)
- DRVW24150ELVMLV (150 Watt)
- DRVW24300ELVMLV (300 Watt)

Line Voltage Dimmable Drivers
Output Voltage: 24 V
Voltage Range: 100-277 VAC
IP Rating: IP67
Dimmable
UL, CE, and CSA Listed



LUTRON Skylark Contour Dimmer

Part No.: TRIDIMSKY

Width: 2.94 in (75 mm)
Length: 4.69 in (120 mm)
Depth: 0.30 in (7.6 mm)

- Single pole and 3-way versions
- Compatible with Acolyte MLV drivers
- Slide adjusts brightness and On/Off control
- 30 mA max control current
- Available in white finish



LUTRON NOVA-T Dimmer

Part No.: TRIDIMNOVA

Width: 2.75 in (70 mm)
Length: 4.56 in (116 mm)
Depth: 0.30 in (7.6 mm)

- Slide adjusts brightness and On/Off control
- 30 mA max control current
- Available in white finish



LUTRON DIVA Dimmer

Part No.: TRIDIMDIVA

(With Locator Light) TRIDIMDIVAL

Width: 2.94 in (75 mm)
Length: 4.69 in (120 mm)
Depth: 0.30 in (7.6 mm)

- Large paddle switch with a captive linear-slide dimmer
- 30 mA max control current
- Available in white finish
- Available with locator light which glows green when the switch is off

Note: For more options, please reference the Optional Dimmer List on Acolyte product website page.

AVAILABLE DRIVERS / CONTROLLERS AND DIMMING OPTIONS / WIRE GAUGE CHART

0-10V DRIVERS AND DIMMERS

DIMMING MODULE



0-10V Dimmable Waterproof Drivers

96W Part No.: DRVW249610P
288W Part No.: DRVW2428810P
Output Voltage: 24 V (+/- 0.5V)
Voltage Range: 100-277 VAC
Environmental Rating: UL Wet Location
UL Listed



LUTRON DIVA Dimmer

Part No.: LVDIMDIVA
Width: 2.94 in (75 mm)
Length: 4.69 in (120 mm)
Depth: 0.30 in (7.6 mm)

- Compatible with 0-10 V Dimming Module
- Large paddle switch with a captive linear-slide dimmer
- 30 mA max control current
- Available in white finish



LUTRON NOVA-T Dimmer

Part No.: LVDIMNOVA
Width: 2.75 in (70 mm)
Length: 4.56 in (116 mm)
Depth: 0.30 in (7.6 mm)

- Compatible with 0-10 V Dimming Module
- Slide adjusts brightness and On/Off control
- 30 mA max control current
- Available in white finish



Variable White Dimming Module

Part No.: VWDIMMOD

- 1 dimming module required per 30 ft (9.1 m)
- This product is only compatible with Variable White RibbonLyte, not Variable White Amber or Variable White Red. Works with any 0-10V dimmers to provide CCT change with one dimmer and brightness change with the other.

Note: Max length before additional power is introduced

DMX CONTROLLER AND PART NUMBER - FOR COLOR CHANGING VERSIONS



GLASS TOUCH WALL CONTROLLER

Part Number: AWCRGBWW
AWCVWW



1 ZONE WALL CONTROLLER

Part Number: DMXCTRLG



5 ZONE WALL CONTROLLER

Part Number: DMXCTRL



10 ZONE WALL CONTROLLER

Part Number: DMXCTRLD



4 CHANNEL WATERPROOF DMX INTERFACE

Part Number: DMXINFWLCD4



5 CHANNEL DMX INTERFACE

Part Number: DMXINFLCD5



DMX OPTO SPLITTER

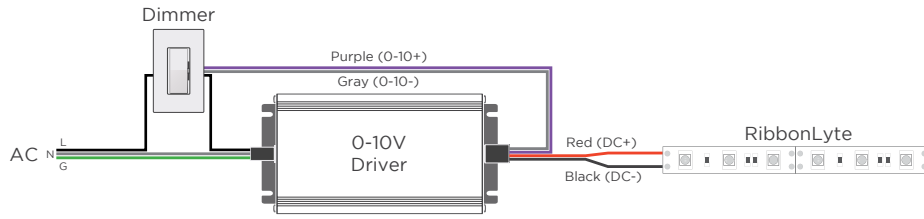
Part Number: DMXOS8

DRIVER AND RIBBONLYTE AT FULL LOAD

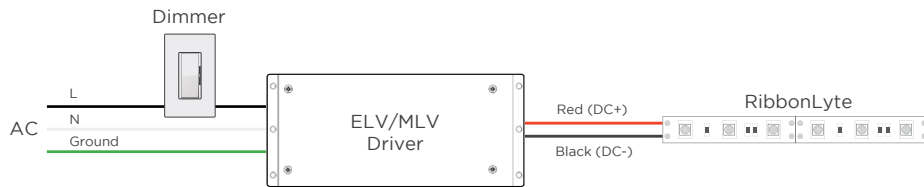
Wire Gauge	30		60		96		150		200		240		300		320	
	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
24 AWG	14	4.27	9	2.74	5.5	1.68	3.75	1.14	2.75	0.84	2.25	0.69	1.75	0.53	1.75	0.53
22 AWG	22	6.71	14	4.27	9	2.74	5.75	1.75	4.5	1.37	3.5	1.07	2.75	0.84	2.75	0.84
20 AWG	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	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	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	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	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	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	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

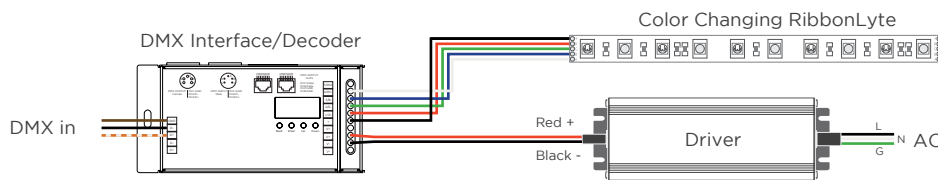
0-10V



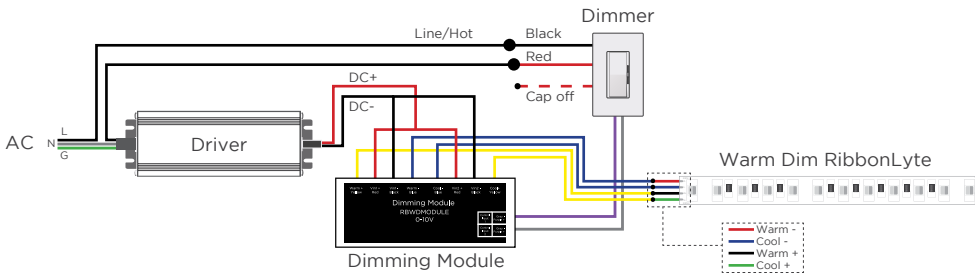
MLV / ELV



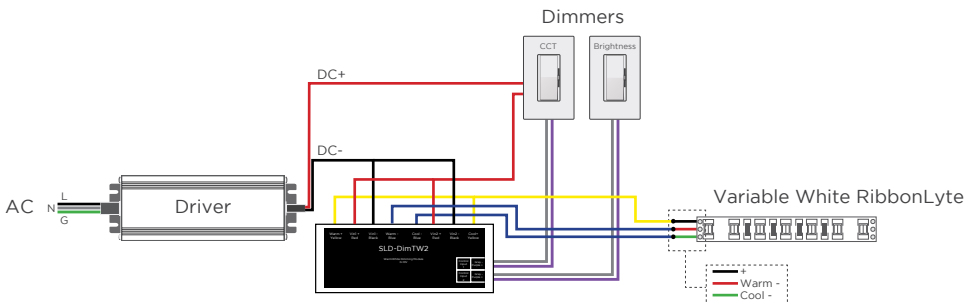
DMX



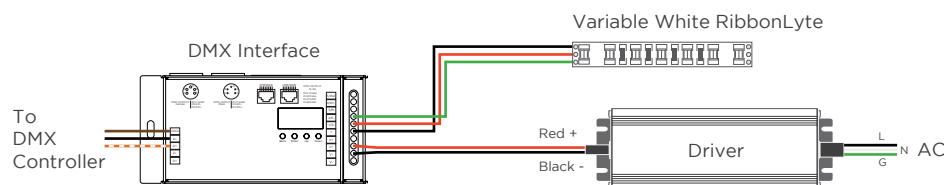
WARM DIM



2-CHANNEL VARIABLE WHITE DIMMING



DMX WIRING DIAGRAM - COMPATIBLE WITH ALL MODELS OF VARIABLE WHITE RIBBONLYTE



WIRE COLORS PER RIBBONLYTE COLOR

STATIC WHITE + STATIC COLOR

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

RGB

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

RGBW/A

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

WARM DIM

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

VARIABLE WHITE

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