GEN LED acolyte®
Architectural Lighting Solutions

Date | Project

Notes

AR9 CHANNEL FIXTURE

Our AR9 Channel Fixture is a recessed mounted linear fixture designed to work with the new Micro RibbonLyte 1.0, 3.0 & 4.5. AR9's ultra slim width of 0.31 in. (8 mm) can create clean and modern linear designs for retail stores, commercial buildings and residential interiors.

- Available for field assembly or factory assembly
- Beam Angle 110°
- Wattage: 1.0 W/ft (3.3 W/m), 3.0 W/ft (9.84 W/m) or 4.5 W/ft (14.76 W/m)
- Delivered Lumen Range from 1 lm/ft (3 lm/m) to 500 lm/ft (1638 lm/m)
- Assembled in USA





HOUSING FINISHES



Silver

AVAILABLE LENS FINISHES



Milky Lens
63% Light Transmission

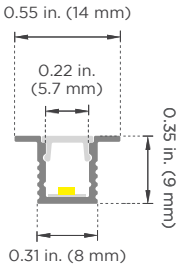
AVAILABLE COLORS & COLOR TEMPERATURES



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

DIMENSIONS

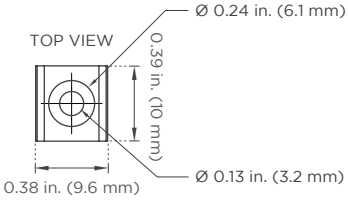
AR9 Channel



Overall Width: 0.55 in. (14 mm)
Recessed Width: 0.31 in. (8 mm)
Height: 0.35 in. (9 mm)
Internal Width: 0.22 in (5.7 mm)

Mounting Clip (Included Accessory)

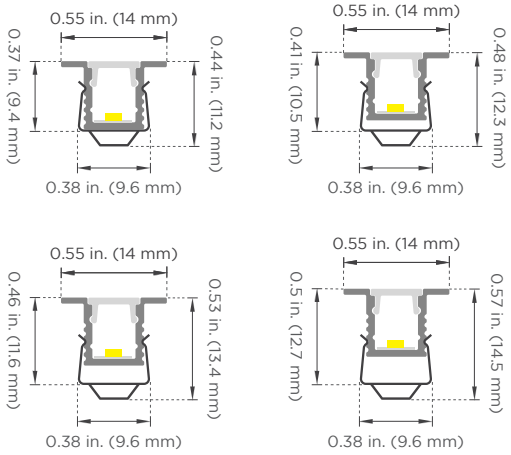
Material: stainless steel





Width: 0.38 in. (9.6 mm)
Height: 0.49 in. (12.5 mm)
Length: 0.39 in (10 mm)

ASSEMBLED VIEW



Note:

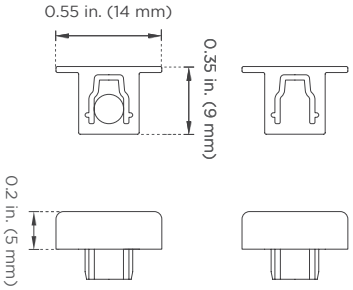
1. **Exterior channel applications** should be securely attached to the mounting surface with appropriate screws and/or liquid nails. Acolyte strongly recommends field assembly for exterior applications. Use mounting clips for interior applications only.

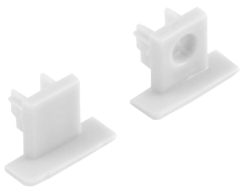
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SPECIFICATIONS

Beam Angle	110°
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 / CASAMBI
Operating Temperature	-40 — 158 °F (-40 — 70 °C)
Colors	1800K, 2000K, 2200K, 2400K, 2700K, 3000K, 3500K, 4000K, 6000K, Red, Amber, Green, Blue, Violet (1800K, 2000K, 2200K 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

End Caps





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ORDERING GUIDE

STEP 1 Complete Channel Part Number

CHANNEL	LENS	HOUSING COLOR
CHAR9	M	SV
CHAR9 - AR9 Channel Fixture	**M** - Milky Lens	**SV** - Silver

STEP 2 Complete RibbonLyte Part Number

CATEGORY	CRI	RIBBON TYPE & IP RATING	
RB			
RB - RibbonLyte	**0** - Static Color, Color Changing	**SWMC20** - Static White Micro IP20	**SCMC20** - Static Color Micro IP20
	90 - 90+ CRI Static White	**SWMC65** - Static White Micro IP65	**SCMC65** - Static Color Micro IP65

WATTAGE	COLOR	
1.0 - 1.0 W/ft (3.3 W/m - Static White, Static Color)	**18** - 1800K	**R** - Red
3.0 - 3.0 W/ft (9.8 W/m - Static White, Static Color)	**20** - 2000K	**A** - Amber
4.5 - 4.5 W/ft (14.8 W/m - Static White, Static Color)	**22** - 2200K	**G** - Green
	24 - 2400K	**B** - Blue
	27 - 2700K	**V** - Violet
	30 - 3000K	**Z** - Undecided (For quotes only. Must be chosen before final order)
NOTE: To ensure waterproofing standards are met, IP65 RibbonLyte can NOT be cut in the field.	**35** - 3500K	
	40 - 4000K	
	60 - 6000K	

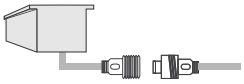
CONNECTION OPTIONS (See diagrams on the right)		Custom Length (ft.)
1 - Back Feed Bare Wire Connection	**3** - Soldered Daisy Chain	
2 - Back Feed with IP67 Male Coupler	**4** - Daisy Chain With IP67 Couplers	

1. (Default)



Wire Length:
Standard 12 in. / Custom up to 20 feet

2.



Wire Length:
Standard 12 in. / Custom up to 20 feet

3.



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

4.



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

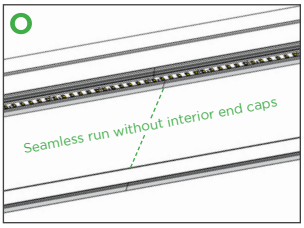
STEP 3 Complete Assembly Option & Length

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)	

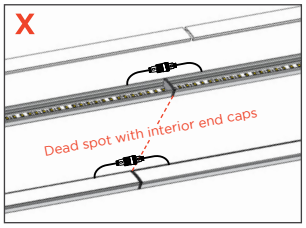
* Factory assembled runs exceeding 6 ft 6.7 in. (2 m) will be split into multiple daisy chained fixtures.

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

RIBBONLYTE SPECIFICATIONS & COMPATIBILITY

Available Wattages	Incremental Length	LED Pitch	Color & CCT	lm/W without Lens	Delivered Lumens with Milky Lens	Max Length	Compatible with Channel		
							IP20	IP65	IP69
1.0 Static White Micro & 1.0 Static Color Micro	1.97 in. (50 mm)	43 LEDs/ft (140 LEDs/m)	2400K	79	49.8 lm/ft (163.3 lm/m)	28 ft (8.5 m)	✓	✓	
			2700K	90	56.7 m/ft (186 lm/m)				
			3000K	94	59.2 lm/ft (194 lm/m)				
			3500K	98	61.7 lm/ft (202.5 lm/m)				
			4000K	97	61.1 lm/ft (200.5 lm/m)				
			6000K	93	58.6 lm/ft (192.2 lm/m)				
			Red	27	16.8 lm/ft (55.0 lm/m)				
			Green	78	49.2 lm/ft (161.3 lm/m)				
			Blue	17	10.6 lm/ft (34.9 lm/m)				
			Amber	19	11.8 lm/ft (38.8 lm/m)				
			Violet	1	0.3 lm/ft (1.0 lm/m)				
3.0 Static White Micro & 3.0 Static Color Micro	1.97 in. (50 mm)	43 LEDs/ft (140 LEDs/m)	2400K	79	149.3 lm/ft (489.7 lm/m)	28 ft (8.5 m)	✓	✓	
			2700K	90	170.1 lm/ft (557.9 lm/m)				
			3000K	94	177.7 lm/ft (582.7 lm/m)				
			3500K	98	185.2 lm/ft (607.5 lm/m)				
			4000K	97	183.3 lm/ft (601.3 lm/m)				
			6000K	93	175.8 lm/ft (576.5 lm/m)				
			Red	27	50.3 lm/ft (164.9 lm/m)				
			Green	78	147.5 lm/ft (483.9 lm/m)				
			Blue	17	31.9 lm/ft (104.6 lm/m)				
			Amber	19	35.5 lm/ft (116.4 lm/m)				
			Violet	1	0.9 lm/ft (2.9529lm/m)				
4.5 Static White Micro & 4.5 Static Color Micro	1.97 in. (50 mm)	43 LEDs/ft (140 LEDs/m)	2400K	80	223.5 lm/ft (733.2 lm/m)	28 ft (8.5 m)	✓	✓	
			2700K	88	247.8 lm/ft (812.7 lm/m)				
			3000K	93	259.8 lm/ft (852.2 lm/m)				
			3500K	87	244.7 lm/ft (802.6 lm/m)				
			4000K	97	268.2 lm/ft (879.7 lm/m)				
			6000K	94	263.1 lm/ft (862.9 lm/m)				
			Red	26	73.5 lm/ft (241.1 lm/m)				
			Green	83	243.8 lm/ft (799.9 lm/m)				
			Blue	17	52.8 lm/ft (173.2 lm/m)				
			Amber	17	51.7 lm/ft (169.6 lm/m)				
			Violet	1	1.4 lm/ft (4.5 lm/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 Micro RibbonLyte

1.0	3.0	4.5
IP20 IP65	IP20 IP65	IP20 IP65
N	**N**	**N**

AVAILABLE DRIVERS 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



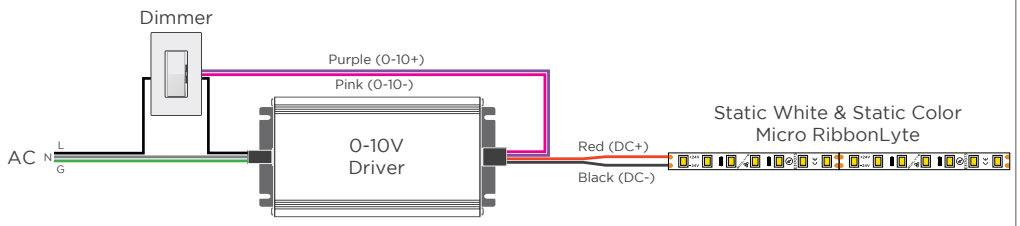
DMX OPTO SPLITTER
Part No.: DMXOS8

DRIVER AND RIBBONLYTE AT FULL LOAD

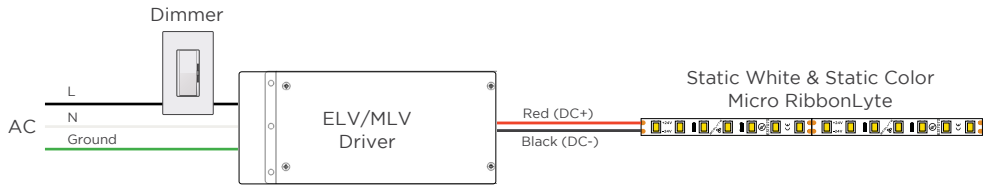
Wattages	30		60		96		150		200		240		300		320	
Wire Gauge	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
24 AWG / 0.25 mm²	14	4.27	9	2.74	5.5	1.68	3.75	1.14	2.75	0.84	2.25	0.69	1.75	0.53	1.75	0.53
22 AWG / 0.34 mm²	22	6.71	14	4.27	9	2.74	5.75	1.75	4.5	1.37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

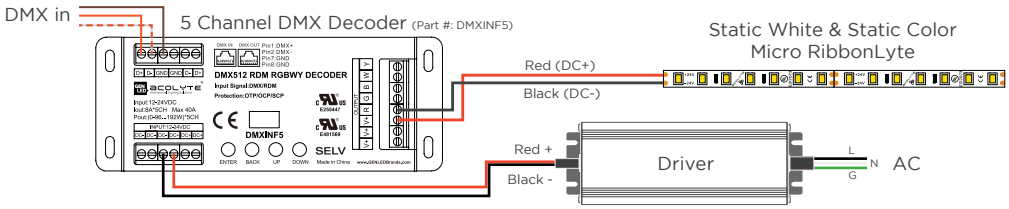
0-10 V



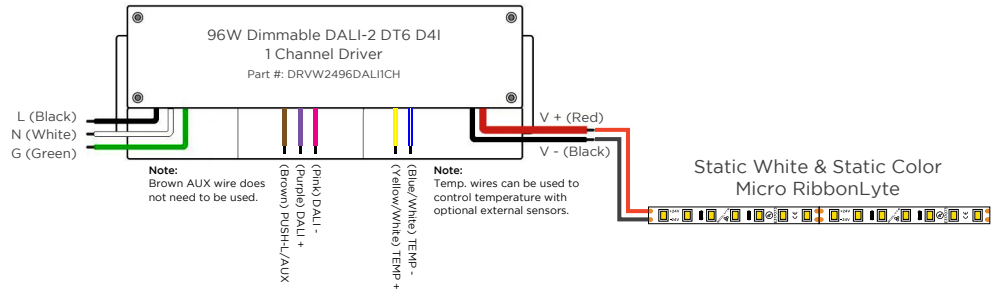
MLV / ELV



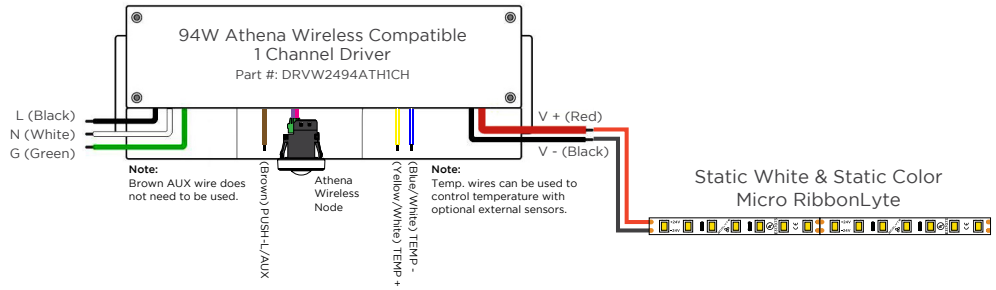
DMX WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



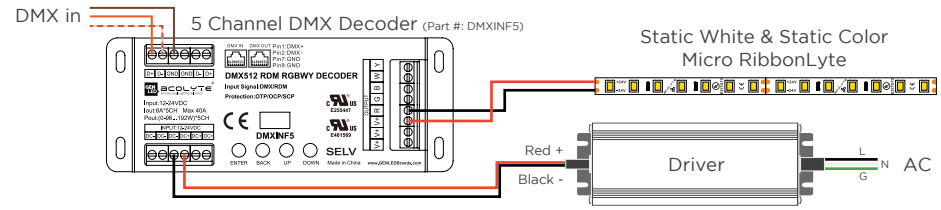
DALI-2 WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



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

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