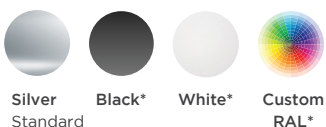


AR7 CHANNEL FIXTURE

Our AR7 Channel Fixture is a recessed mounted linear fixture designed to work with the new Micro RibbonLyte 1.0, 3.0 & 4.5. AR7's ultra slim width of 0.39 in. (10 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

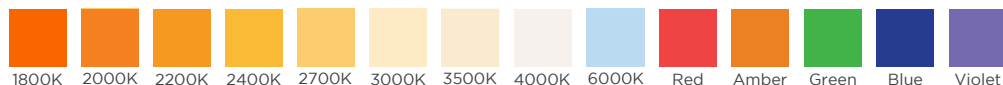


*Additional fee applies

AVAILABLE LENS FINISHES



AVAILABLE COLORS & COLOR TEMPERATURES



DIMENSIONS

AR7 Channel	Mounting Clip (Included Accessory)
Overall Width: 0.63 in. (16.1 mm) Recessed Width: 0.39 in. (10 mm) Height: 0.59 in. (15 mm) Internal Width: 0.33 in. (8.5 mm)	Material: manganese alloy Length: 0.56 in. (14 mm) Width: 0.40 in. (10.12 mm) Height: 0.41 in. (10.37 mm)

Note:

1. This channel does not require mounting clips. Please see our installation guide for instructions.
2. **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.

Acolyte does not warrant or represent that the information is free from errors or omission. The information may change without notice and Acolyte is not in any way liable for the accuracy of any information printed and stored or in any way interpreted or used.

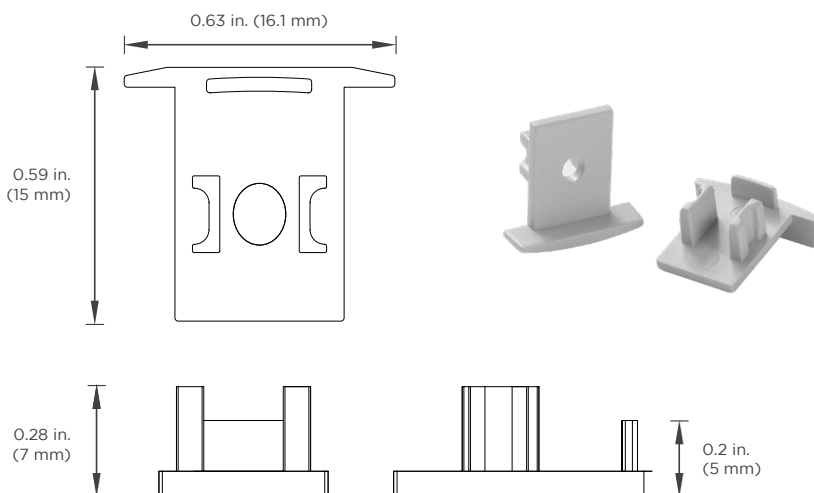
SPECIFICATIONS

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
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 (Static white only)
Lamp Life	L70 at 50,000 hours
MacAdam ellipse (SDCM)	2-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

Material: ABS



ORDERING GUIDE

STEP 1 Complete Channel Part Number

CHANNEL	LENS	HOUSING COLOR
CHAR7	M	
CHAR7 - AR7 Channel Fixture	M - Milky Lens	SV - Silver (default) WH - White BK - Black 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	SWMC20 - Static White Micro IP20 SCMC20 - Static Color Micro IP20 SWMC65 - Static White Micro IP65 SCMC65 - Static Color Micro IP65

WATTAGE

1.0 - 1.0 W/ft (3.3 W/m - Static White, Static Color)
3.0 - 3.0 W/ft (9.8 W/m - Static White, Static Color)
4.5 - 4.5 W/ft (14.8 W/m - Static White, Static Color)

COLOR

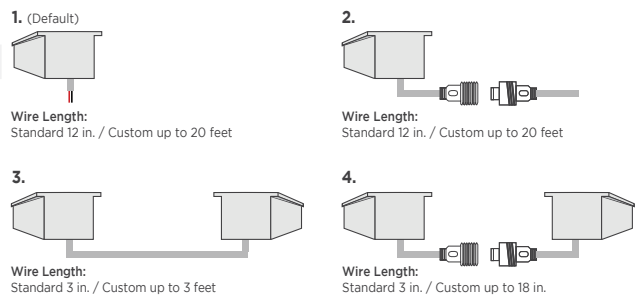
18 - 1800K R - Red
20 - 2000K A - Amber
22 - 2200K G - Green
24 - 2400K B - Blue
27 - 2700K V - Violet
30 - 3000K Z - Undecided**
35 - 3500K ** For quotes only. Must be chosen before final order.
40 - 4000K
60 - 6000K

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

CONNECTION OPTIONS (See diagrams on the right)

- | | |
|--------------------------------------|------------------------------------|
| 1 - Back Feed Bare Wire Connection | 3 - Soldered Daisy Chain |
| 2 - Back Feed with IP67 Male Coupler | 4 - Daisy Chain With IP67 Couplers |

Custom Length (ft.)



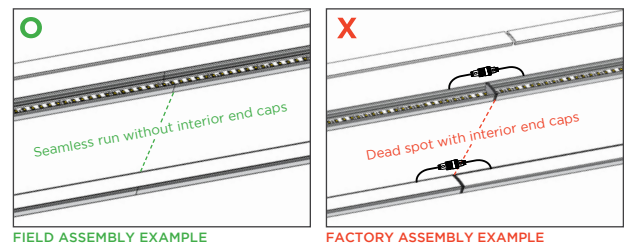
STEP 3 Complete Assembly Option & Length

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

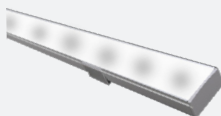
Acolyte STRONGLY SUGGESTS field assembly (without using interior end caps) for direct-view fixtures of more than 6 ft 6.7 in. (2 m) in length. Field assembly without interior end caps will eliminate gaps or dead spots that can be caused by butting interior end caps against each other.



RIBBONLYTE SPECIFICATIONS & COMPATIBILITY

Available Wattages	Cutable Length	LED Pitch	Color Temperature	lm/W without Lens	Delivered Lumens with Milky Lens	Max Length	Compatible with Channel	
							IP20	IP65
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	IP20	IP20	
IP65	IP65	IP65	
N	N	N	

AVAILABLE DRIVERS OPTIONS / WIRE GAUGE CHART

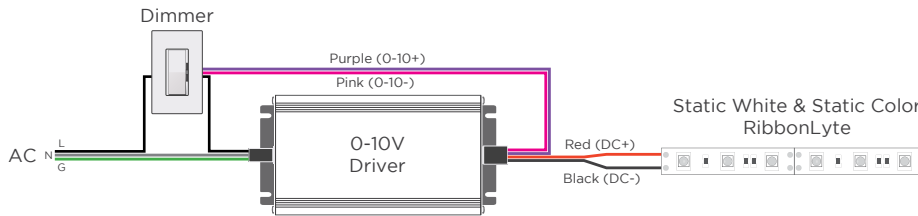
NON-DIMMING ELECTRONIC DRIVERS			ELV & MLV DRIVERS		DIMMABLE DALI-2 DRIVERS	
						
30W, 60W, 96W Non-Dimming Electronic Class 2 Drivers	240W, 320W Non-Dimming Electronic Drivers	60W, 96W Non-Dimming Compact Drivers	150W, 300W ELV/MLV Line Voltage Dimmable Drivers	75W, 150W, 240W DALI-2 Dimmable Drivers		
Part No.: • DRVW2430 (30 W) • DRVW2460 (60 W) • DRVW2496 (96 W)	Part No.: • DRVW24240 (240 W) • DRVW24320 (320 W)	Part No.: • DRV2460C (60 W) • DRV2496C (96 W)	Part No.: • DRVW24150ELVMLV (150 W) • DRVW24300ELVMLV (300 W)	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 IP65, dry/damp locations UL Listed	24 VDC 90-305 VAC IP65, dry/damp locations UL Recognized	24 VDC 120-277 VAC IP20, dry locations UL Class P	24 VDC 100-277 VAC IP67, damp/wet locations UL, CE, and CSA Listed	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		
0-10V/ELV/MLV 3-IN-1			0-10V		0-10V VW/WD	
						
0-10V/ELV/MLV 3-in-1 Dimmable Drivers			0-10V Dimmable Waterproof Drivers		0-10V Dimmable 90W VW/WD Driver	
Part No.: • DRVW2460TRI010 (60 W) • DRVW2496TRI010 (96 W)			Part No.: • DRVW249610P (96 W) • DRVW2428810P (288 W)		Part No.: • DRVRFWDVW2490120	
24 VDC 120-277 VAC IP65, dry/damp/wet locations UL Listed			24 VDC 100-277 VAC UL wet locations UL Listed		24 VDC 100-277 VAC IP23, dry/damp locations UL Listed	
			ATHENA WIRELESS COMPATIBLE		DIMMABLE DALI-2 DRIVERS	
						
94W Athena Wireless Compatible Drivers			96W DIMMABLE DALI-2 DT6 D4I & DALI-2 DT8 D4I DRIVERS			
Part No.: • DRVW2494ATH1CH (1 channel) • DRVW2494ATH2CH (2 channel)			Part No.: • DRVW2496DALI1CH (1 channel) • DRVW2496DALI2CH (2 channel)			
24 VDC 100-277 VAC Dry locations UL Listed			24-26 VDC 120-277 VAC IP67, wet locations UL Listed			

DRIVER AND RIBBONLYTE AT FULL LOAD

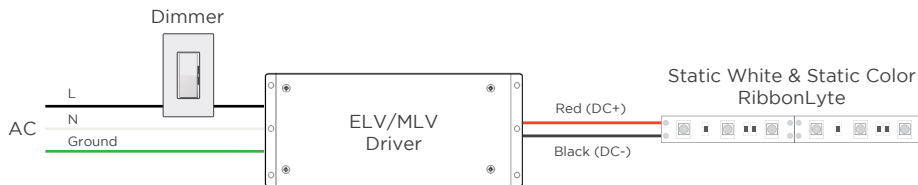
Wattages	30		60		96		150		200		240		300		320	
Wire Gauge	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
24 AWG / 0.25 mm ²	14	4.27	9	2.74	5.5	1.68	3.75	1.14	2.75	0.84	2.25	0.69	1.75	0.53	1.75	0.53
22 AWG / 0.34 mm ²	22	6.71	14	4.27	9	2.74	5.75	1.75	4.5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

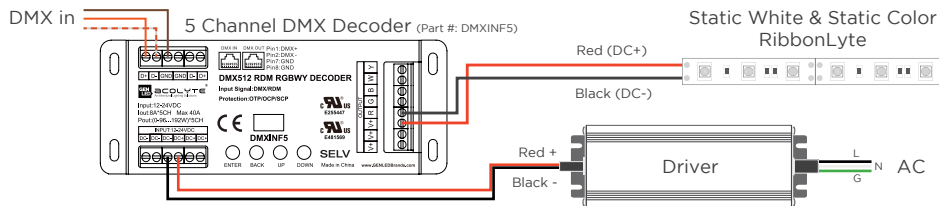
0-10 V



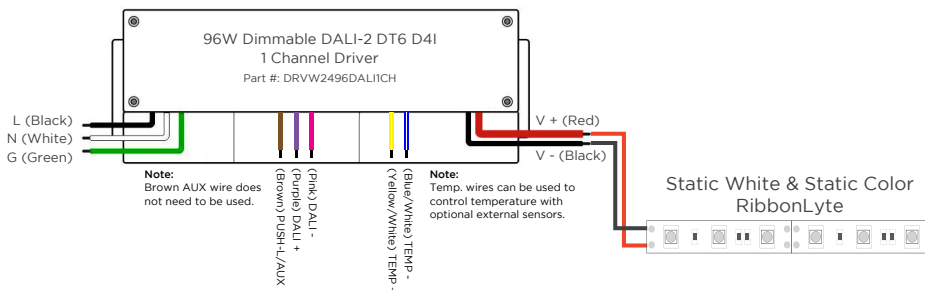
MLV / ELV



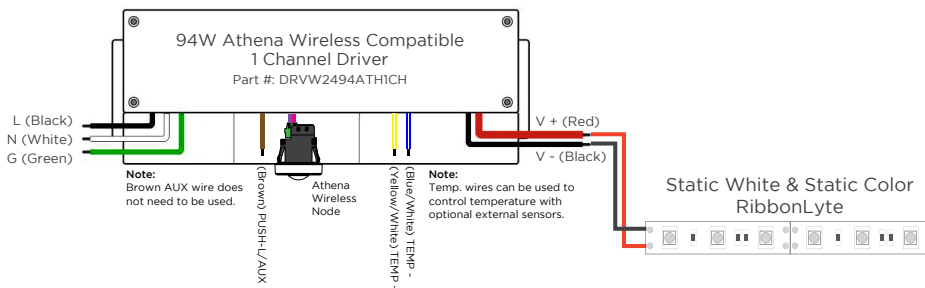
DMX WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



DALI-2 WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



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



WIRE COLORS PER RIBBONLYTE COLOR

STATIC WHITE + STATIC COLOR

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

REV.02OCT2025

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