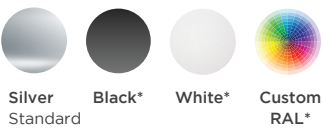


AR9 CHANNEL FIXTURE

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



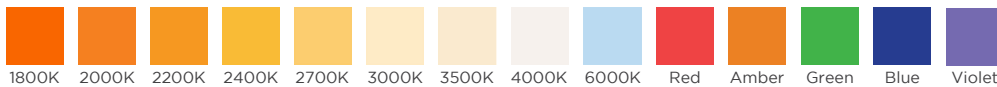
*Additional fee applies

AVAILABLE LENS FINISHES



Milky Lens
63% Light Transmission

AVAILABLE COLORS & COLOR TEMPERATURES



DIMENSIONS

| AR9 Channel | Mounting Clip (Included Accessory) |
|--|--|
| <p>Overall Width: 0.55 in. (14 mm) Recessed Width: 0.31 in. (8 mm) Height: 0.35 in. (8.9 mm) Internal Width: 0.22 in. (5.7 mm)</p> | <p>Material: manganese alloy</p> <p>Length: 0.39 in. (10 mm) Width: 0.40 in. (9.55 mm) Height: 0.34 in. (8.65 mm)</p> |

- 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.

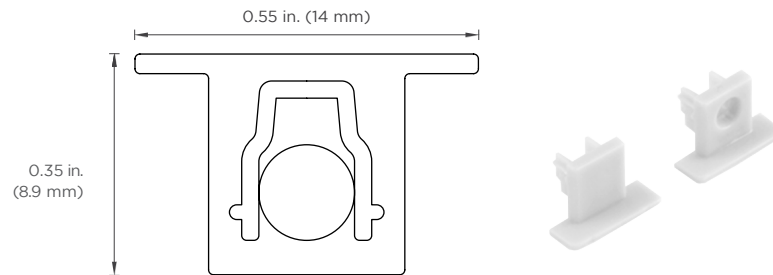
SPECIFICATIONS

| | |
|--------------------------------|--|
| 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) |
| Lifetime (L70 reported) | 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 | |
|-----------------------------------|----------------|-------------------------------------|------------|
| CHAR9 | M | | |
| CHAR9 - AR9 Channel Fixture | M - Milky Lens | SV - Silver (default) BK - Black | WH - White |
| Consult factory for custom colors | | | |

STEP 2 Complete RibbonLyte Part Number

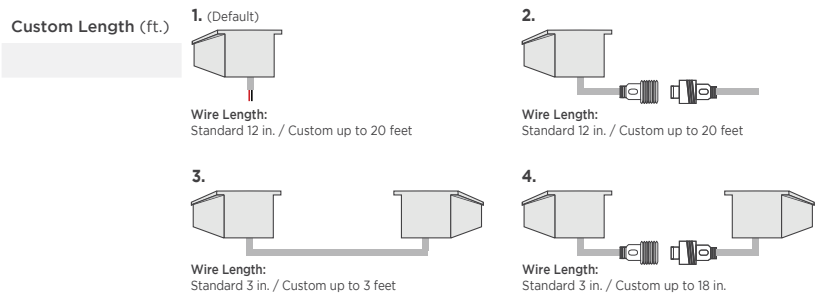
| CATEGORY | CRI | RIBBON TYPE & IP RATING | |
|-----------------|---|--|--|
| RB | | | |
| RB - RibbonLyte | 0 - Static Color, Color Changing 90 - 90+ CRI Static White | SWMC20 - Static White Micro IP20 SWMC65 - Static White Micro IP65 | SCMC20 - Static Color Micro IP20 SCMC65 - Static Color Micro IP65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

| 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** |
| | 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
- 2 - Back Feed with IP67 Male Coupler
- 3 - Soldered Daisy Chain
- 4 - Daisy Chain With IP67 Couplers



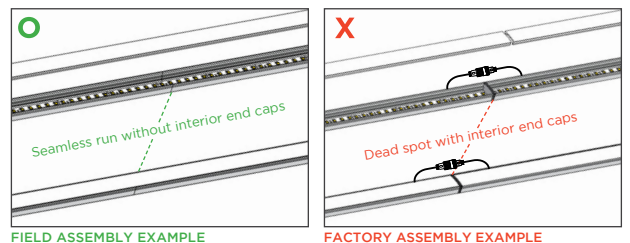
STEP 3 Complete Assembly Option & Length

| ASSEMBLY OPTION | LENGTH (Standard factory assembled length up to 6 ft 6.7 in. / 2 m) |
|--|---|
| FI | |
| FI - Field Assembly | |
| FA | |
| 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 | Cuttable 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) | | | |
| 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) |
| | | | 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 | |

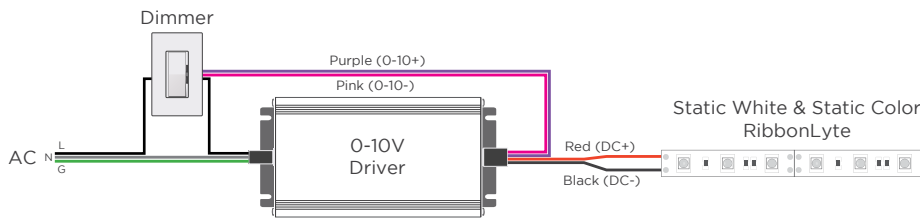
AVAILABLE DRIVERS OPTIONS / WIRE GAUGE CHART

| NON-DIMMING ELECTRONIC DRIVERS | | ELV & MLV DRIVERS | | DIMMABLE DALI DRIVERS | |
|---|---|---|---|---|--|
|  |  |  |  |  | |
| <p>30W, 60W, 96W Non-Dimming Electronic Class 2 Drivers</p> <p>Part No.:</p> <ul style="list-style-type: none"> • DRVW2430 (30 Watt) • DRVW2460 (60 Watt) • DRVW2496 (96 Watt) <p>Output Voltage: 24 VDC Input Voltage: 120-277 VAC IP65, dry/damp location UL Listed</p> | <p>240W, 320W Non-Dimming Electronic Drivers</p> <p>Part No.:</p> <ul style="list-style-type: none"> • DRVW24240 (240 Watt) • DRVW24320 (320 Watt) <p>Output Voltage: 24 VDC Input Voltage: 90-305 VAC IP65, dry/damp location UL Recognized</p> | <p>60W, 96W Non-Dimming Compact Drivers</p> <p>Part No.:</p> <ul style="list-style-type: none"> • DRV2460C (60 Watt) • DRV2496C (96 Watt) <p>Output Voltage: 24 VDC Input Voltage: 120-277 VAC IP20, dry location UL Class P</p> | <p>60W, 96W, 150W, 300W ELV/MLV Dimmable Drivers</p> <p>Part No.:</p> <ul style="list-style-type: none"> • DRVW2460ELVMLV (60 Watt) • DRVW2496ELVMLV (96 Watt) • DRVW24150ELVMLV (150 Watt) • DRVW24300ELVMLV (300 Watt) <p>Line Voltage Dimmable Drivers Output Voltage: 24 VDC Input Voltage: 100-277 VAC IP67, damp/wet location UL, CE, and CSA Listed</p> | <p>100W 1 Channel, 100W 2 Channel, 150W 4 Channel Dimmable DALI Drivers</p> <p>Part No.:</p> <ul style="list-style-type: none"> • DRV100DALI1CH (100W 1 channel) • DRV100DALI2CH (100W 2 channel) • DRV150DALI4CH (150W 4 channel) <p>Output Voltage: 24 VDC Input Voltage: 120-277 VAC IP20, dry location CE, UL Recognized, FCC, RoHS, SELV</p> | |
| 0-10V DRIVERS | | ATHENA WIRELESS COMPATIBLE | | DIMMABLE DALI-2 DRIVERS | |
|  |  |  |  | | |
| <p>0-10V Dimmable Waterproof Drivers</p> <ul style="list-style-type: none"> • Part No.: DRVW249610P (96 Watt) • Part No.: DRVW2428810P (288 Watt) <p>Output Voltage: 24 VDC (+/- 0.5 V) Input Voltage: 100-277 VAC UL wet location UL Listed</p> | <p>0-10V Dimmable 90W VW/WD Driver</p> <ul style="list-style-type: none"> • Part No.: DRVRFWDVW2490120 <p>Output Voltage: 24 VDC Input Voltage: 100-277 VAC IP23, dry/damp location UL Listed</p> | <p>94W Athena Wireless Compatible Drivers</p> <ul style="list-style-type: none"> • Part No.: DRVW2494ATH1CH (1 channel) • Part No.: DRVW2494ATH2CH (2 channel) <p>Output Voltage: 24 VDC Input Voltage: 100-277 VAC Dry location UL Listed</p> | <p>96W DIMMABLE DALI-2 DT6 D4I & DALI-2 DT8 D4I DRIVERS</p> <ul style="list-style-type: none"> • Part No.: DRVW2496DALI1CH (1 channel) • Part No.: DRVW2496DALI2CH (2 channel) <p>Output Voltage: 24-26 VDC Input Voltage: 120-277 VAC IP67, wet location UL Listed</p> | | |

| 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 21.65 |

WIRING DIAGRAMS

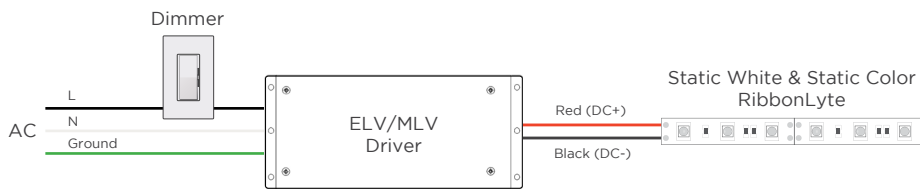
0-10 V



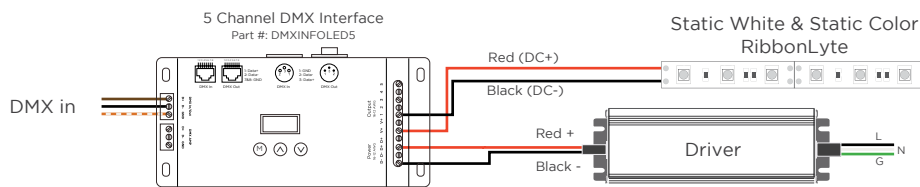
WIRE COLORS PER RIBBONLYTE COLOR

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

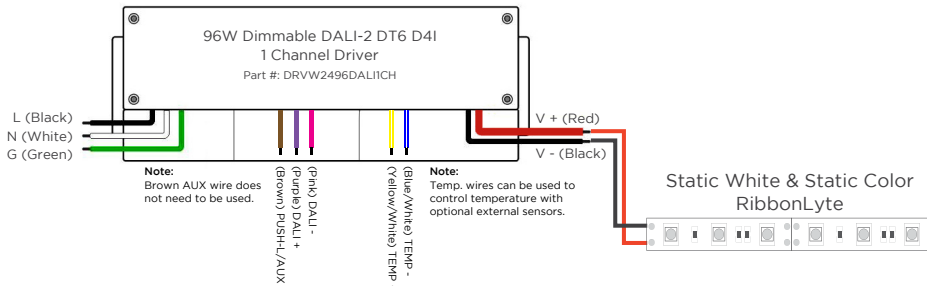
MLV / ELV



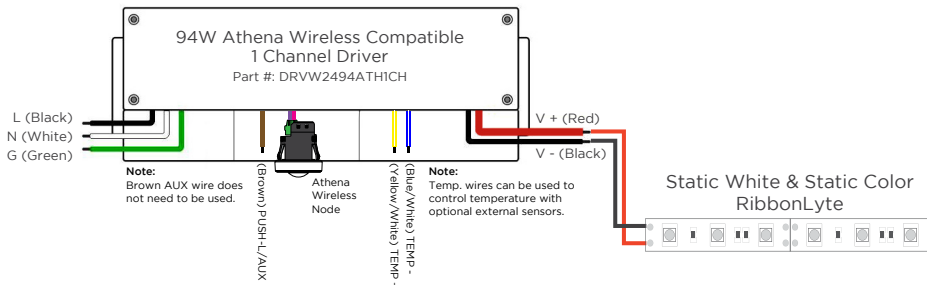
DMX WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



DALI-2 WIRING WITH STATIC WHITE & STATIC COLOR RIBBONLYTE



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



REV.14JAN2025

GLOBAL HQ

320 Murray Hill Pkwy
East Rutherford, NJ 07073
U.S.
T: (+1) 212 629 6830
E: Sales-US@GENLEDBrands.com

EUROPEAN HQ

Hogeweyselaan 119
1382 JK Weesp
Netherlands
T: (+31) 346 235 000
E: SalesEurope@GENLEDBrands.com

MEINA HQ

PO Box 371378, #823, Building 4EA
Dubai Airport Free Zone
Dubai, UAE
T: (+971) 4 701 7901
E: SalesMEINA@genledbrands.com

ASIA-PACIFIC HQ

Room 402, Building D
ShenShi Tongchuang Science and Technology Park
No. 16 Hongyin Road
Xingqiang Community, Xinhui Street
Guangming District, Shenzhen, China 518107
Sales: (+86) 139 1836 3905
Office: (+86) 755 8529 0710
E: Sales-Pacific@GENLEDBrands.com