

4.5 STATIC WHITE MICRO RIBBONLYTE

Static White Micro RibbonLyte creates unique visual effects and precision lighting in tight spaces. Micro RibbonLyte is designed to fit our micro channels. Both the IP20 and IP65 versions of this RibbonLyte are only 0.2 inches (5 mm) wide. We use 1-step MacAdam ellipse binning to create dimmable Static White Micro RibbonLyte in 9 brilliant CCTs with 43 LEDs/ft (140 LEDs/m) for amazing, consistent light output.

- 4.5 W/ft (14.8 W/m)
- 0.2 inch width (5 mm)
- Fits in 0.3 inch wide channel (7.6 mm)
- 9 color temperatures
- 1-step MacAdam ellipse binning
- 500 lm/ft (1638 lm/m) at 4000K
- 1.97 in. (50 mm) incremental lengths
- 90+ CRI
- Title 24, JA8 compatible (2200K-4000K)
- TM66 assessed



RoHS

IP20

IP65*

IP69*

Declare.



* 1800K, 2000K, 2200K are not available in IP65/IP69

ORDERING GUIDE

Category	CRI	Ribbon Type & IP Rating	Wattage & Color	
RB	90			
RB - RibbonLyte	90 - 90+ CRI	SWMC20 - Static White Micro IP20	4.518 - 4.5 W/ft (14.8 W/m) 1800K (IP20 only)	4.530 - 4.5 W/ft (14.8 W/m) 3000K
		SWMC65 - Static White Micro IP65	4.520 - 4.5 W/ft (14.8 W/m) 2000K (IP20 only)	4.535 - 4.5 W/ft (14.8 W/m) 3500K
		SWMC69 - Static White Micro IP69	4.522 - 4.5 W/ft (14.8 W/m) 2200K (IP20 only)	4.540 - 4.5 W/ft (14.8 W/m) 4000K
			4.524 - 4.5 W/ft (14.8 W/m) 2400K	4.560 - 4.5 W/ft (14.8 W/m) 6000K
			4.527 - 4.5 W/ft (14.8 W/m) 2700K	

CONNECTION OPTIONS

1. End Feed Bare Wire Connection (Default Option)



2. IP67 Connector Input



3. Soldered Daisy Chain



4. Daisy Chain with IP67 Connectors



5. Bare Wire on Both Ends

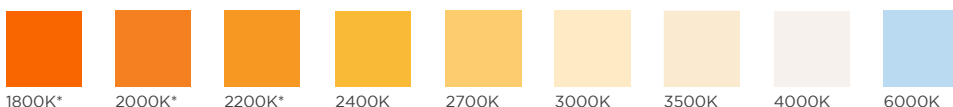


Standard cable length if not specified:

1. 12 in. cable with bare wire (custom length up to 20 feet)
2. Standard 12 in. cable with IP67 connectors (custom length up to 10 feet)
3. Daisy chain with 3 in. cable between runs (custom length up to 36 in.)
4. 3 in. cable between IP67 connector and RibbonLyte (custom length up to 18 in.)
5. Standard 12 in. cable with bare wire (custom length up to 10 feet)

Note: IP67 connectors are used for IP20/IP65/IP69 RibbonLyte

AVAILABLE COLOR TEMPERATURES



* 1800K, 2000K, 2200K are not available in IP65/IP69

SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

4.5 STATIC WHITE MICRO RIBBONLYTE									
Operating Voltage	24 V								
Power Consumption	4.5 W/ft (14.8 W/m)								
Current (mA) - 24V	187.5 mA/ft (615 mA/m)								
LED Pitch	43 LEDs/ft (140 LEDs/m)								
Protection Rating	IP20, IP65, IP69 (1800K, 2000K, and 2200K are only available in IP20)								
Dimming/Control	Dimmable with an external MLV / ELV / 0-10 Volt / DALI / CASAMBI controlled driver or by DMX with an external interface and driver								
Operating Temperature	-40 — 158 °F (-40 — 70 °C)								
Colors Temperatures	1800K	2000K	2200K	2400K	2700K	3000K	3500K	4000K	6000K
MacAdam ellipse (SDCM)	1-Step Binning								
Lumens	320 lm/ft (1048 lm/m)	374 lm/ft (1225 lm/m)	392 lm/ft (1284 lm/m)	414 lm/ft (1358 lm/m)	437 lm/ft (1432 lm/m)	459 lm/ft (1506 lm/m)	464 lm/ft (1520 lm/m)	500 lm/ft (1638 lm/m)	486 lm/ft (1594 lm/m)
Binning Tolerance	+/- 100K								
LED Beam Angle	120°								
Lifetime (L70 reported)	50,000 hours								
Incremental Length	1.97 in. (50 mm)								
CRI - All Color Temp.	90+ CRI								
Lumens/Watt	71 lm/W	83 lm/W	87 lm/W	92 lm/W	97 lm/W	102 lm/W	103 lm/W	111 lm/W	108 lm/W
Constant Voltage	✓								
Certifications	UL 2108 Issued: 2016/06/17 Ed: 1 Rev: 2021/10/16 Low Voltage Lighting Systems. CSA C22.2 No. 250.0, General Requirements for Luminaires. RoHS compliant UL.								
Warranty	IP20: 6 years, IP65/IP69: 3 years								

24V DIMENSIONS	Top View	Side View	Dimensions
IP20			Width 0.2 in. (5 mm) Max Length 28 ft (8.5 m) Height 0.06 in. (1.45 mm)
IP65			Width 0.2 in. (5 mm) Max Length 28 ft (8.5 m) Height 0.1 in. (2.5 mm)
IP69			Width 0.3 in. (7.5 mm) Max Length 28 ft (8.5 m) Height 0.18 in. (4.5 mm)

OPTIONAL ACCESSORY

0.5 in. VHB Tape	Flat Mounting Clip	Silicone Clip
 Provides superior holding power in surface mounted applications Part Number: VHBTape0.5BK	 For mounting IP20/IP65 RibbonLyte Part Number: RBMNTSIL	 For mounting IP69 RibbonLyte Part Number: RBMNTSILW

Note: RibbonLyte comes with an adhesive backing, but Acolyte recommends using VHB Tape for extra support in surface mounted applications.

USAGE GUIDELINES

- IP65 and IP69 RibbonLyte cannot be cut in the field. All custom cuts and connections for these models must be performed at the factory to ensure waterproofing standards are met. Any modification of the waterproofing will result in a void warranty.
- When installing this product, consider the surface temperature of the material where it will be mounted. Many building surfaces which are exposed to direct sunlight exceed the 70 °C / 158 °F maximum for which our product is rated. High-risk locations like this should be avoided.
- IP20 RibbonLyte products are for indoor use in dry areas. IP65 RibbonLyte products can be used in indoor dry/damp locations such as bathrooms and kitchens. IP69 RibbonLyte protects against water ingress from high-pressure, high-temperature water jets. But please note that our products are not intended to be submerged in pools and fountains and do not carry UL676 certification to do so.
- Please refer to the RibbonLyte Proper Usage Guide in our Application Guide for more information. Available for download at AcolyteLED.com.
- This product is compatible with a wide variety of control products including the entire line of Lutron dimming systems.
- For use with Acolyte drivers, 0-10V dimming modules and interface controllers (DMXINF models).
- Use with non-Acolyte supplied drivers is not supported or warrantied.
- Due to the nature of RibbonLyte products, cuttable lengths are generally longer or shorter than the customer requested length. Unless specified, RibbonLyte is factory cut at the shorter cuttable point.
- We reserve the right to make changes to product lineup, specifications, design and finishes at any time without notice.

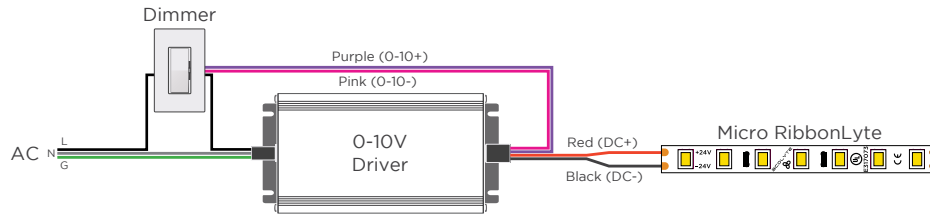
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CHANNEL COMPATIBILITY / CHANNEL OPTIONS

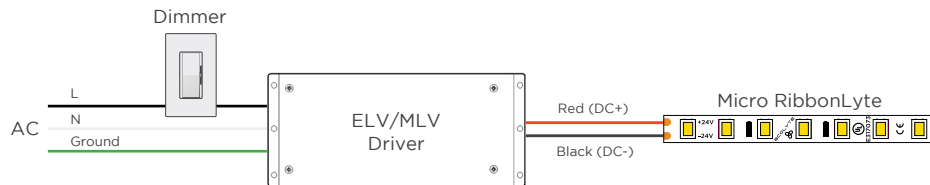
CHANNELS	IP20/IP65	IP69	SURFACE MOUNTED CHANNELS	RECESSED CHANNEL
AS9	✓			
AR9	✓			
			AS9 W: 0.31 in. / 8 mm H: 0.35 in. / 8.9 mm	AR9 W: 0.54 in. / 13.6 mm H: 0.35 in. / 8.9 mm

WIRING DIAGRAMS

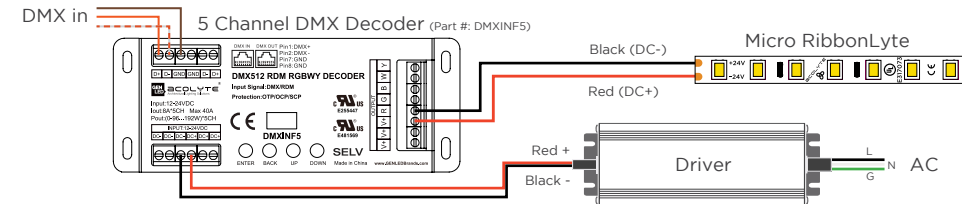
0-10V



MLV / ELV



DMX



WIRE COLORS PER RIBBONLYTE COLOR

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

ACTUAL POWER CONSUMPTION

Length (ft)	Length (m)	Actual Power Consumed (W)	Average Wattage (W/ft)	Average Wattage (W/m)	Actual Current Drawn (A)
5	1.52	21.94	4.39	14.39	0.914
10	3.05	42.60	4.26	13.97	1.775
15	4.57	60.74	4.05	13.28	2.531
20	6.10	75.25	3.76	12.34	3.135
25	7.62	85.26	3.41	11.19	3.553
28	8.54	89.12	3.18	10.44	3.713

NOTE: Quotes use nominal values. We highly recommend using nominal wattages for all customer calculations. Allow for a 15% buffer (10% driver, 5% fixture) in these calculations as performance may vary. Acolyte is not liable for product performance if these tables are used instead of nominal values when orders are placed.

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