5.5 4-IN-1 RGB + WHITE & RGB + AMBER RIBBONLYTE

5.5 4-In-1 RGBW and RGBA RibbonLyte are DMX controlled. Use with Acolyte channel profiles to create an excellent fixture with no color refraction.

RGB + WHITE: Adds 3000K, 4000K, or 6000K to RGB to replicate tungsten and daylight.

RGB + AMBER: Adds 590 nanometer to RGB for warm accents.

- Use with Acolyte channel profiles to create a custom fixture
- Flexible
- 24 Volt input
- 5.5 W/ft (18 W/m)
- RGBW all on: Up to 64 lm/W
- RGBA all on: 38 lm/W
- RGBW all on: Up to 350.67 lm/ft (1150.2 lm/m)
- RGBA all on: 209.39 lm/ft (686.8 lm/m)

Applications:

Commercial	Hospitality	Residential
Entertainment	Museums	Retail
Healthcare	Public Spaces	

c(UL)us LISTED   CE   RoHS   IP20   IP65   IP68

ORDERING GUIDE

Category	CRI	Ribbon Type & IP Rating	Wattage + Color	
RB	**O**			
RB - Ribbonlyte	**O** - Color Changing	**RGBWA20** - RGBW/A IP20	**5.5RGB30** - 5.5 W/ft (18 W/m) RGB+3000K	**5.5RGB60** - 5.5 W/ft (18 W/m) RGB+6000K
		RGBWA65 - RGBW/A IP65	**5.5RGB40** - 5.5 W/ft (18 W/m) RGB+4000K	**5.5RGBA** - 5.5 W/ft (18 W/m) RGB+Amber
		RGBWA68 - RGBW/A IP68		

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 both IP20 and IP65/IP68 RibbonLyte

AVAILABLE COLORS

RGBA   RGBW

SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

5.5 4-IN-1 RGBW / RGBA	
Operating Voltage	24 V
Color	RGBW (3000K, 4000K, 6000K), RGBA (Amber)
Current (mA) - 24V	229 mA/ft (752 mA/m)
LED Pitch	18 LEDs/ft (60 LEDs/m)
Protection Rating	IP20, IP65, IP68
Dimming/Control	DMX
Operating Temperature	-40° F to 158° F (-40° C to 70° C)
Binning Tolerance	+/- 100K (White)
LED Beam Angle	120°
Lamp Life	50,000 Hours
Cuttable Length - 24V	3.94 in (100 mm)
Constant Voltage	✓
Cable Length	12 in (30.5 cm)
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. CE

RGBW (3000K)					
	Red	Green	Blue	White (3000K)	All On
Power Consumption	1.375 W/ft (4.5 W/m)	1.375 W/ft (4.5 W/m)	1.375 W/ft (4.5 W/m)	1.375 W/ft (4.5 W/m)	5.5 W/ft (18 W/m)
Lumen	40.23 lm/ft (131.95 lm/m)	85.55 lm/ft (280.6 lm/m)	25.52 lm/ft (83.71 lm/m)	109.63 lm/ft (359.59 lm/m)	255.18 lm/ft (836.99 lm/m)
Efficacy	29 lm/W	62 lm/W	19 lm/W	80 lm/W	46 lm/W

RGBW (4000K)					
	Red	Green	Blue	White (6000K)	All On
Power Consumption	1.375 W/ft (4.5 W/m)	1.375 W/ft (4.5 W/m)	1.375 W/ft (4.5 W/m)	1.375 W/ft (4.5 W/m)	5.5 W/ft (18 W/m)
Lumen	54.46 lm/ft (178.63 lm/m)	115.67 lm/ft (379.4 lm/m)	35.71 lm/ft (117.13 lm/m)	153.23 lm/ft (502.59 lm/m)	350.67 lm/ft (1150.2 lm/m)
Efficacy	40 lm/W	84 lm/W	26 lm/W	111 lm/W	64 lm/W

RGBW (6000K)					
	Red	Green	Blue	White (6000K)	All On
Power Consumption	1.375 W/ft (4.5 W/m)	1.375 W/ft (4.5 W/m)	1.375 W/ft (4.5 W/m)	1.375 W/ft (4.5 W/m)	5.5 W/ft (18 W/m)
Lumen	31.84 lm/ft (104.44 lm/m)	74.45 lm/ft (244.2 lm/m)	20.09 lm/ft (65.9 lm/m)	93.29 lm/ft (305.99 lm/m)	221.34 lm/ft (726 lm/m)
Efficacy	23 lm/W	54 lm/W	15 lm/W	68 lm/W	40 lm/W

RGBA (Amber)					
	Red	Green	Blue	Amber	All On
Power Consumption	1.375 W/ft (4.5 W/m)	1.375 W/ft (4.5 W/m)	1.375 W/ft (4.5 W/m)	1.375 W/ft (4.5 W/m)	5.5 W/ft (18 W/m)
Lumen	43.79 lm/ft (143.63 lm/m)	97.5 lm/ft (319.8 lm/m)	28.54 lm/ft (93.61 lm/m)	36.85 lm/ft (120.87 lm/m)	209.39 lm/ft (686.8 lm/m)
Efficacy	32 lm/W	71 lm/W	21 lm/W	27 lm/W	38 lm/W
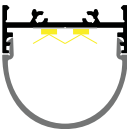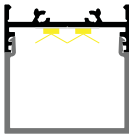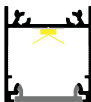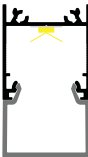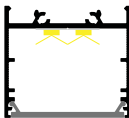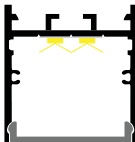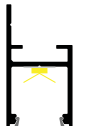
24V DIMENSIONS	Top View	Side View	Dimensions
IP20	CUTTABLE EVERY: 3.94 in (100 mm)		**Width** 0.47 in (12 mm) **Max Length*** 19 ft 7.9 in (6 m) **Height** 0.09 in (2.3 mm)
IP65	CUTTABLE EVERY: 3.94 in (100 mm)		**Width** 0.47 in (12 mm) **Max Length*** 19 ft 7.9 in (6 m) **Height** 0.125 in (3.2 mm)
IP68	CUTTABLE EVERY: 3.94 in (100 mm)		**Width** 0.58 in (14.8 mm) **Max Length*** 19 ft 7.9 in (6 m) **Height** 0.21 in (5.3 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 IP68 RibbonLyte Part Number: RBMNTSILW

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

CHANNEL COMPATIBILITY / CHANNEL OPTIONS

CHANNEL	IP20 IP65	IP68
AC1	✓	
AC2	✓	
AC3	✓	
AC4	✓	✓
AC5	✓	✓
AR1	✓	
AR3	✓	✓
AR10		
AR16	✓	✓
AR20	✓	✓
AR25	✓	✓
AR30	✓	✓
AR33		
AS1	✓	
AS2	✓	
AS3	✓	✓
AS6	✓	✓
AS10		
AS13	✓	✓
AS16	✓	✓
AS20G		
AS23	✓	✓
AS30	✓	✓
AS53		
AT4	✓	✓
AT5	✓	✓
AW12	✓	
AW14	✓	
AW38	✓	✓
B1	✓	
SC3	✓	
SC4	✓	✓
SC5	✓	✓
WH35	✓	✓

SURFACE CHANNELS

AS1
W: 0.68 in. / 17.2 mm
H: 0.34 in. / 8.7 mm
Inside: 0.57 in. / 14.6 mm

AS2
W: 0.7 in. / 17.8 mm
H: 0.6 in. / 15.2 mm
Inside: 0.49 in. / 12.5 mm

AS3
W: 0.93 in. / 23.6 mm
H: 0.42 in. / 10.7 mm
Inside: 0.81 in. / 20.6 mm

AS6
W: 0.89 in. / 22.5 mm
H: 0.62 in. / 15.7 mm
Inside: 0.71 in. / 18 mm

AS16
W: 0.74 in. / 18.8 mm
H: 0.73 in. / 18.6 mm
Inside W: 0.65 in. / 16.4 mm
Inside H: 0.63 in. / 16 mm

AS13 / round milky
W: 1.31 in. / 33.4 mm
H: 1.29 in. / 32.7 mm
Inside W: 1.22 in. / 31 mm
Inside H: 1 in. / 25.3 mm

AS13 / square milky
W: 1.31 in. / 33.4 mm
H: 1.37 in. / 34.8 mm
Inside W: 1.22 in. / 31 mm
Inside H: 1.07 in. / 27.3 mm

AS23
W: 0.91 in. / 23 mm
H: 0.99 in. / 25.1 mm
Inside W: 0.83 in. / 21 mm
Inside H: 0.72 in. / 18.2 mm

AS23 / square milky
W: 0.91 in. / 23 mm
H: 1.59 in. / 40.5 mm
Inside W: 0.83 in. / 21 mm
Inside H: 1.32 in. / 33.4 mm

AS30
W/H: 1.31 in. / 33.4 mm
H: 1.17 in. / 29.6 mm
Inside W: 1.17 in. / 29.8 mm
Inside H: 0.93 in. / 23.6 mm

WH35
W: 1.37 in. / 35 mm
H: 1.47 in. / 37.5 mm
Inside: 1.23 in. / 31.2 mm

AT4
W: 0.77 in. / 19.6 mm
H: 0.74 in. / 18.8 mm
Inside W: 0.66 in. / 16.8 mm

AT5
W: 0.77 in. / 19.6 mm
H: 0.74 in. / 18.8 mm
Inside W: 0.66 in. / 16.8 mm

AT12
W: 0.91 in. / 23 mm
H: 2.17 in. / 55 mm
Inside W: 0.56 in. / 14.2 mm
Inside H: 0.22 in. / 5.5 mm

AW38
W: 1.5 in. / 38 mm
H: 1.31 in. / 33.4 mm
Inside W: 1.22 in. / 31 mm
Inside H: 1.17 in. / 29.8 mm

B1
W: 0.77 in / 19.6 mm
H: 0.26 in. / 6.5 mm
Inside W: 0.69 in / 17.6 mm

CORNER CHANNELS

AC1
W: 0.63 in. / 16 mm
H: 0.63 in. / 16 mm
Inside W: 0.48 in. / 12.2 mm

AC2
W: 0.63 in. / 16 mm
H: 0.63 in. / 16 mm
Inside W: 0.48 in. / 12.2 mm

AC3
W: 0.74 in. / 18.8 mm
H: 0.74 in. / 18.8 mm
Inside W: 0.48 in. / 12.2 mm

AC4
W: 1.17 in. / 29.72 mm
H: 1.17 in. / 29.72 mm
Inside W: 0.8 in. / 20.32 mm

AC5
W: 1.11 in. / 28.19 mm
H: 1.11 in. / 28.19 mm
Inside W: 0.8 in. / 20.32 mm

RECESSED CHANNELS

AR1
W: 0.9 in. / 22.9 mm
H: 0.31 in. / 7.87 mm
Inside W: 0.49 in. / 12.5 mm

AR3
W: 1.2 in. / 30.5 mm
H: 0.39 in. / 9.9 mm
Inside W: 0.81 in. / 20.6 mm

AR16
W: 1.1 in. / 28 mm
H: 0.73 in. / 18.6 mm
Inside W: 0.65 in. / 16.4 mm
Inside H: 0.64 in. / 16.2 mm

AR20
W: 1.18 in. / 30 mm
H: 0.8 in. / 20.4 mm
Inside W/H: 0.83 in. / 21 mm
Inside H: 0.73 in. / 18.5 mm

AR25
W: 1.75 in. / 44.4 mm
H: 0.94 in. / 24 mm
Inside W: 1.22 in. / 31 mm
Inside H: 0.91 in. / 23 mm

AR30
W: 1.75 in. / 44.4 mm
H: 0.55 in. / 14 mm
Inside W: 1.22 in. / 31 mm
Inside H: 0.51 in. / 13 mm

AW14
W: 0.98 in. / 24.9 mm
H: 1.31 in. / 33.4 mm
Inside W: 0.58 in. / 14.8 mm
Inside H: 0.63 in. / 16 mm

MUD-IN CHANNELS

SC3
Overall W: 2.62 in. / 66.6 mm
Visible W: 0.88 in. / 22.35 mm
H: 0.55 in. / 14 mm
Inside W: 0.69 in. / 17.5 mm

SC4
Overall W: 2.5 in. / 63.4 mm
Visible W: 1.31 in. / 33.4 mm
H: 0.63 in. / 15.9 mm
Inside W: 1.22 in. / 31 mm
Inside H: 0.5 in. / 12.9 mm

SC5
Overall W: 2.5 in. / 63.4 mm
Visible W: 1.31 in. / 33.4 mm
H: 0.94 in. / 24 mm
Inside W: 1.22 in. / 31 mm
Inside H: 0.83 in. / 21 mm

DISCLAIMER

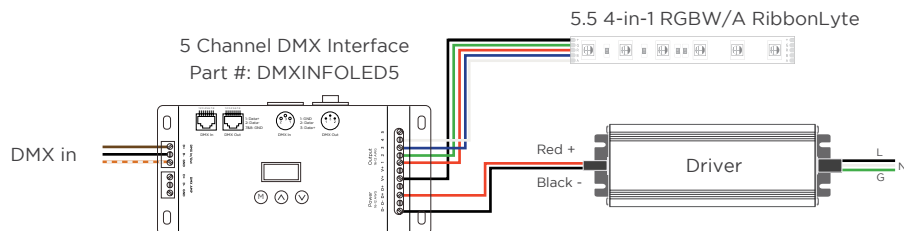When installing this product take into account the surface temperature of the material this product is mounted to. Many building surfaces which are exposed to direct sunlight exceed the 70°C/158°F maximum that our product is rated for. High risk locations like this should be avoided.

Our IP68 product is not intended to be submerged in pools and fountains and does not carry UL676 certification to do so.

WIRING DIAGRAMS

DMX

5.5 4-in-1 RGBW/A RibbonLyte

5 Channel DMX Interface
Part #: DMXINFOLED5

DMX in

Red +

Black -

Driver

L
N
G

WIRE COLORS PER RIBBONLYTE COLOR

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

USAGE GUIDELINES

- IP65 and IP68 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. IP68 RibbonLyte products can be used in wet, outdoor locations around pools and spa tubs, but 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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