

PIXEL RIBBONLYTE

Pixel RibbonLyte allows customized patterns of light that can be programmed to a single LED! Your designs are only limited by your imagination. Program each RGB LED pixel individually with SPI controls to create the most precise moving effects, patterns, chases and more throughout large light displays. Control 18 pixels per foot (60 pixels per meter)!

- 6.1 W/ft (19.9 W/m)
- 0.66 in. (16.66 mm) LED (pixel) spacing
- 18 LEDs/ft (60 LEDs/m)
- 3.94 in. (100 mm) cuttable length
- 124.5 lm/ft (408 lm/m) all on
- 24 ft, 7.2 in. (7.5 m) max. run length
- Use with SPI controls
- 24V input
- 5-year warranty

Applications:

Commercial
Entertainment
Healthcare

Hospitality
Museums
Public Spaces

Residential
Retail



RoHS

IP20

Declare.



ORDERING GUIDE

Category	CRI	Ribbon Type & IP Rating	Wattage + Color	Control
RB	0	RGBADD	6.1RGB	S
RB - RibbonLyte	0 - Color Changing	RGBADD - RGB Pixel IP20	6.1RGB - 6.1 W/ft (19.9 W/m) RGB	S - SPI

CONTROLLERS:

1. C4 Extended Controller
Part # for 1 universe model: CTRLPIXEL1
Part # for 2 universe model: CTRLPIXEL2
Part # for 4 universe model: CTRLPIXEL4
Part # for 8 universe model: CTRLPIXEL8
2. C4 Live Controller
Part # for 4 universe model: CTRLPIXELLIVE4
Part # for 8 universe model: CTRLPIXELLIVE8
Part # for 12 universe model: CTRLPIXELLIVE12
Part # for 16 universe model: CTRLPIXELLIVE16
Part # for 24 universe model: CTRLPIXELLIVE24
3. PxLNet Controller
Part #: CTRLPIXEL96

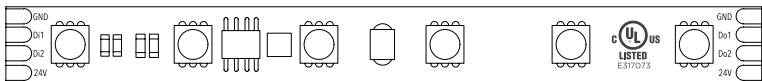
AVAILABLE COLORS



NOTE: Acolyte recommends Belden 9729 shielded cable and Cat5e RJ45 cable for all connections.

SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

	PIXEL RIBBONLYTE
Operating Voltage	24 V
Power Consumption	6.1 W/ft (19.9 W/m)
IC Code	16-bit (Default) P943 (WS2813)
Current (mA) - 24V	254 mA/ft (833 mA/m)
LED Pitch	18 LEDs/ft (60 LEDs/m)
Protection Rating	IP20
Dimming/Control	SPI
Ambient Temperature	-4 — 140 °F (-20 — 60 °C)
Storage Temperature	-40 — 176 °F (-40 — 80 °C)
Colors	RGB
Lumens	124.5 lm/ft (408 lm/m) all LEDs on
Efficacy	21 lm/W all LEDs on
LED Beam Angle	120°
Lifetime (L70 reported)	50,000 hours
Cuttable Length	3.94 in. (100 mm)
Constant Voltage	✓
Max Run Length	24 ft 7.2 in. (7.5 m)
Cable Length Attached to RibbonLyte	11.81 in. (30 cm)
Cable Type	H05RN-F3xG0.75
Certifications	EN 62471, EN 60598-1, EN 60598-2-20, EN 62031, EN 62493, CE
Warranty	5 years

DIMENSIONS	Top View	Side View	Dimensions
IP20	 CUTTABLE EVERY: 3.94 in (100 mm)		Width 0.39 in (10 mm) Max Length 24 ft 7.2 in (7.5 m) Height 0.1 in (2.7 mm)

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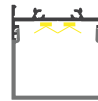
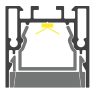
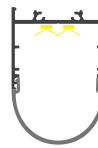
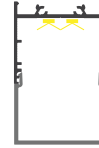
USAGE GUIDELINES

- **IP20 RibbonLyte products are for indoor use in dry areas only.**
- 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 C4 and PxLNET controls and the entire line of Lutron dimming systems.
- For use with Acolyte drivers. Use with non-Acolyte supplied drivers is not supported or warranted.
- 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.

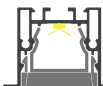
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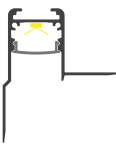
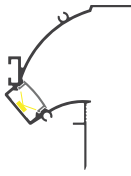
CHANNEL COMPATIBILITY / CHANNEL OPTIONS

CHANNEL	IP20	SURFACE MOUNTED							
AC1	✓								
AC2	✓								
AC3	✓								
AC5	✓								
AC15L	✓								
AR1	✓								
AR3	✓								
AR15L	✓								
AR15AL	✓								
AR24R	✓								
AR29L	✓								
AS1	✓								
AS1GS	✓								
AS2	✓								
AS3	✓								
AS10									
AS13	✓								
AS15L	✓								
AS16	✓								
AS20G	✓								
AS20GS									
AS21	✓								
AS23	✓								
AS24R	✓								
AS29L	✓								
AS30	✓								
AS31	✓								
AS53									
AT4	✓								
AT5	✓								
B1	✓								
SC3	✓								
SC10	✓								
SC15L	✓								
SC20C	✓								
SC23	✓								
SC24R	✓								
SC38C	✓								

SURFACE MOUNTED								
								
AS1	AS1GS	AS2	AS3	AS13 / round lens	AS13 / square lens	AS15L	AS16	
W: 0.68 in. / 17.2 mm H: 0.34 in. / 8.6 mm	W: 0.67 in. / 17.1 mm H: 0.55 in. / 13.9 mm	W: 0.7 in. / 17.8 mm H: 0.6 in. / 15.2 mm	W: 0.93 in. / 23.6 mm H: 0.42 in. / 10.7 mm	W: 1.31 in. / 33.4 mm H: 1.29 in. / 32.7 mm	W: 1.31 in. / 33.4 mm H: 1.37 in. / 34.8 mm	W: 0.59 in. / 15 mm H: 0.59 in. / 15 mm	W: 0.74 in. / 18.8 mm H: 0.73 in. / 18.6 mm	
								
AS20G	AS21	AS23	AS24R	AS29L	AS30 / round lens	AS30 / square lens		
W: 0.61 in. / 15.5 mm H: 0.71 in. / 18 mm	W: 0.79 in. / 20 mm H: 0.82 in. / 20.84 mm	W: 0.91 in. / 23 mm H: 1.59 in. / 40.5 mm	W: 0.91 in. / 23 mm H: 1.03 in. / 26.2 mm	W: 1.18 in. / 30 mm H: 1.15 in. / 29.2 mm	W: 1.31 in. / 33.4 mm H: 1.95 in. / 49.5 mm	W: 1.31 in. / 33.4 mm H: 2.03 in. / 51.6 mm		
								
AS31	AT4	AT5	B1					
W: 1.18 in. / 30 mm H: 1.22 in. / 30.92 mm	W: 0.77 in. / 19.6 mm H: 0.74 in. / 18.8 mm	W: 0.77 in. / 19.6 mm H: 0.74 in. / 18.8 mm	W: 0.77 in. / 19.6 mm H: 0.26 in. / 6.5 mm					

CORNER					
					
AC1	AC2	AC3	AC5	AC15L	
W: 0.63 in. / 16 mm H: 0.63 in. / 16 mm	W: 0.63 in. / 16 mm H: 0.63 in. / 16 mm	W: 0.74 in. / 18.8 mm H: 0.74 in. / 18.8 mm	W: 1.18 in. / 30 mm H: 1.18 in. / 30 mm	W: 0.63 in. / 16 mm H: 0.63 in. / 16 mm	

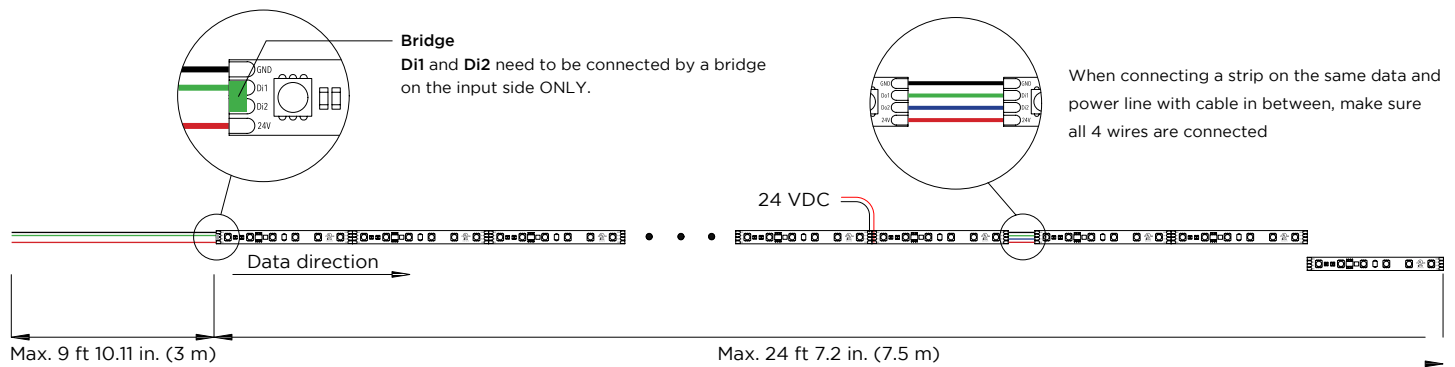
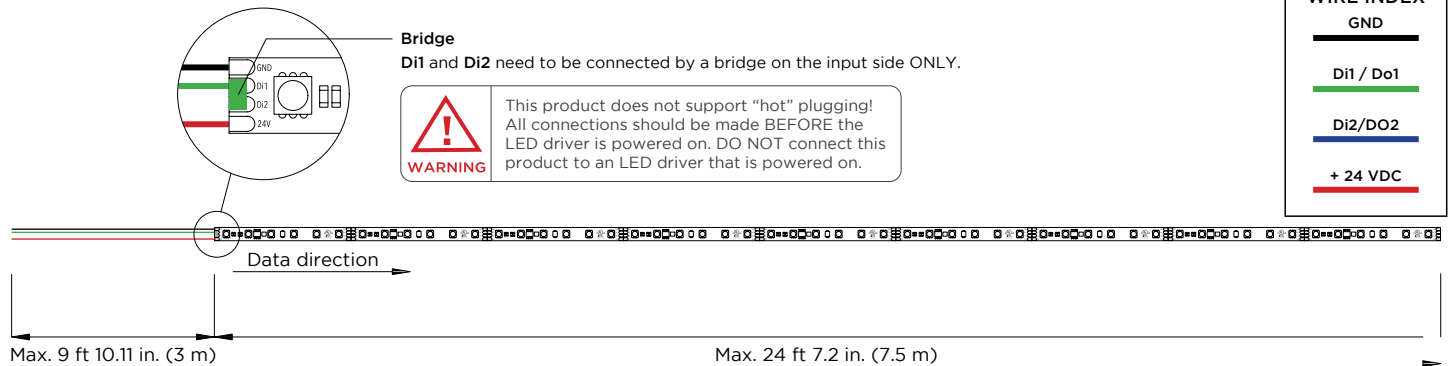
RECESSED						
						
AR1	AR3	AR15L	AR15AL	AR24R	AR29L	
W: 0.9 in. / 22.9 mm H: 0.31 in. / 7.87 mm	W: 1.2 in. / 30.5 mm H: 0.42 in. / 10.8 mm	W: 0.59 in. / 15 mm H: 0.53 in. / 13.5 mm	W: 1.31 in. / 33.3 mm H: 0.6 in. / 15.3 mm	W: 1.3 in. / 33 mm H: 1.03 in. / 26.2 mm	W: 1.57 in. / 40 mm H: 1.15 in. / 29.2 mm	

MUD-IN							
							
SC3	SC10	SC20C	SC24R	SC15L	SC23	SC38C	
W: 2.62 in. / 66.6 mm H: 0.55 in. / 14 mm	W: 1.41 in. / 35.9 mm H: 0.56 in. / 14.1 mm	W: 1.66 in. / 42.2 mm H: 1.89 in. / 48.1 mm	W: 2.48 in. / 63 mm H: 1.03 in. / 26.2 mm	W: 2.17 in. / 55 mm H: 0.39 in. / 9.8 mm	W: 0.93 in. / 23.7 mm H: 3.46 in. / 88 mm	W: 2.32 in. / 58.9 mm H: 2.85 in. / 72.3 mm	

NOTE: Acolyte recommends Belden 9729 shielded cable and Cat5e RJ45 cable for all connections.

WIRING DIAGRAMS

BASIC



ADVANCED

