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	Hospitality	Residential
Entertainment	Museums	Retail
Healthcare	Public Spaces	

UL · CE · RoHS · IP20 · Declare. · TM66 ASSESSED

ORDERING GUIDE

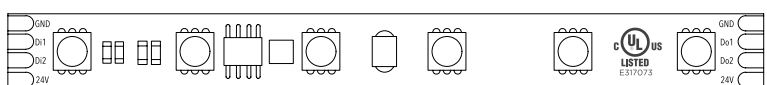| Category	CRI	Ribbon Type & IP Rating	Wattage + Color	Control
RB	**0**	**RGBADD**	**6.1RGB**	**S**
RB - RibbonLyte	**0** - Color Changing	**RGBADD** - RGB Pixel IP20	**6.1RGB** - 6.1 W/ft (19.9 W/m) RGB	**S** - SPI

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

PIXEL
RGB

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)

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 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.
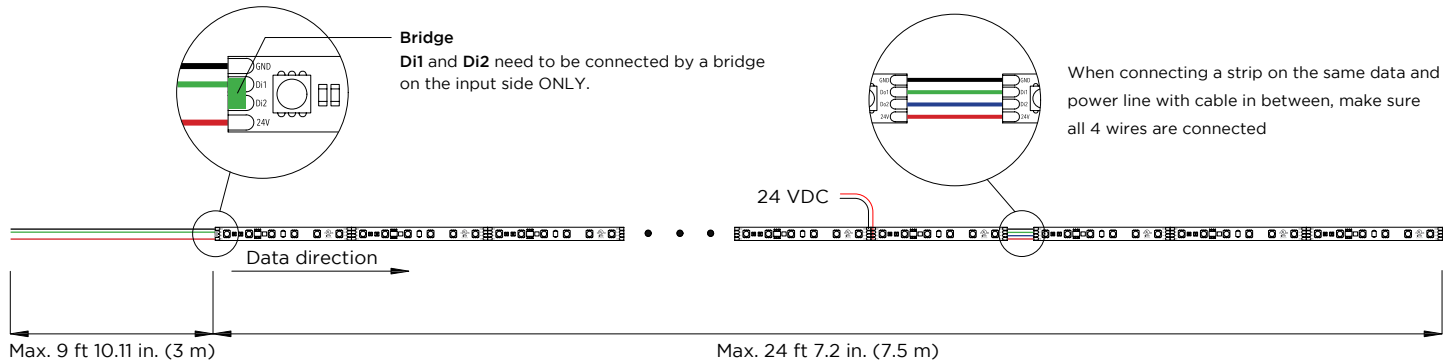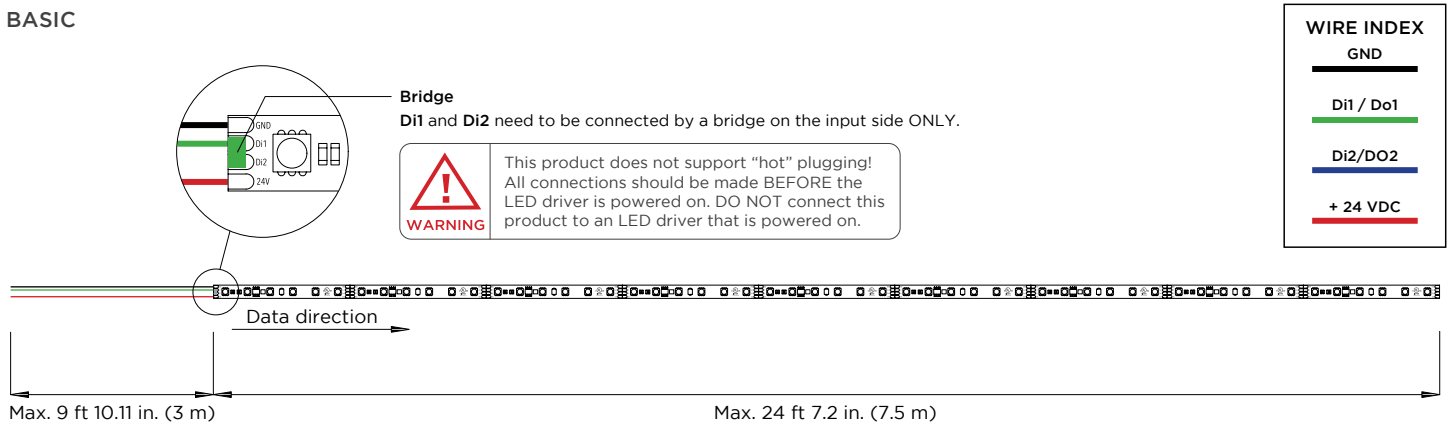
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CHANNEL COMPATIBILITY / CHANNEL OPTIONS

CHANNEL	IP20
AC1	✓
AC2	✓
AC3	✓
AC4	✓
AC5	✓
AR1	✓
AR3	✓
AS1	✓
AS2	✓
AS3	✓
AS6	✓
AS10	
AS11	
AS16	✓
AS18	✓
AS20G	✓
AS22	✓
AS30	✓
AS53	
AT4	✓
AT5	✓
B1	✓
SC3	✓
WH35	✓

SURFACE CHANNELS

AS1
W: 0.68 in. / 17.2 mm
H: 0.34 in. / 8.6 mm
Inside W: 0.48 in. / 12.2 mm

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

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

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

AS18
W: 0.92 in. / 23.4 mm
H: 1.1 in. / 27.8 mm
Inside W: 0.73 in. / 18.6 mm

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

AS20G
W: 0.61 in. / 15.5 mm
H: 0.71 in. / 18 mm
Inside W: 0.48 in. / 12.3 mm

AS22
W: 1.03 in. / 26.2 mm
H: 1.3 in. / 32.9 mm
Inside W: 0.87 in. / 22.2 mm

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

WH35
W: 1.37 in. / 35 mm
H: 1.47 in. / 37.5 mm
Inside W: 1.23 in. / 31.2 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: 1.18 in. / 30 mm
H: 1.18 in. / 30 mm
Inside W: 0.77 in. / 19.6 mm

AC5
W: 1.18 in. / 30 mm
H: 1.18 in. / 30 mm
Inside W: 0.77 in. / 19.6 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

MUD-IN CHANNELS

SC3
W: 2.62 in. / 66.6 mm
H: 0.55 in. / 14 mm
Inside W: 0.69 in. / 17.5 mm

WIRING DIAGRAMS

BASIC

Bridge
Di1 and **Di2** need to be connected by a bridge on the input side ONLY.

GND
Di1
Di2
24V

⚠ **WARNING** This product does not support "hot" plugging! All connections should be made BEFORE the LED driver is powered on. DO NOT connect this product to an LED driver that is powered on.

WIRE INDEX
GND

Di1 / Do1

Di2/DO2

+ 24 VDC

Data direction

Max. 9 ft 10.11 in. (3 m)   Max. 24 ft 7.2 in. (7.5 m)

Bridge
Di1 and **Di2** need to be connected by a bridge on the input side ONLY.

GND
Di1
Di2
24V

When connecting a strip on the same data and power line with cable in between, make sure all 4 wires are connected

24 VDC

Data direction

Max. 9 ft 10.11 in. (3 m)   Max. 24 ft 7.2 in. (7.5 m)

ADVANCED

Daisy chain up to five C4 controllers.

The PxLNet Transmitter can send data to PxLNet Transceivers in cable lengths up to 820 ft (250 m).

Art-Net / sACN

5-24 VDC Power in

IMPORTANT NOTE:

When using multiple power supplies on the same data line, make sure power between these power supplies is NOT connected.

S/FTP6

Bridge
Di1 and **Di2** need to be connected by a bridge on the input side ONLY.

GND
Di1
Di2
24V

⚠ **WARNING** This product does not support "hot" plugging! All connections should be made BEFORE the LED driver is powered on. DO NOT connect this product to an LED driver that is powered on.

For connection information, please refer to the PxLNet Transceiver specification sheet.

PT   24 VDC   24 VDC

Data direction

Max. 9 ft 10.11 in. (3 m)   Max. 9 ft 10.11 in. (3 m)   Max. 820 ft (250 m)   Max. 9 ft 10.11 in. (3 m)

The C4 Live controller provides data output up to 37 ft (11.3 m) per output

REV.10OCT2025

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