

# RGBW PIXEL TAPE LIGHT

## 24V DC High Output Dynamic RGBW

Digital pixel tape light allows for every 6 LEDs to be addressable, enabling independant control of dynamic color and design. Create endless effects including chasing, popcorning, waves, and strobe with easy to use DMX 512 control protocol.

- RGB+3000K warm white dynamic pixel color mixing capabilities
- Create millions of color combinations for impactful installations
- Features SMD 5050 RGBW LEDs with 5 step SDCM
- Lumen output ranging up to 241Lm per foot (3000K)
- Cuttable every 3.94" with 16.4ft max run
- Easy installation featuring 3M VHB adhesive backing
- IP20 uncoated
- Control via DMX for color and dimming
- cULus Listed dry locations
- 50,000 hours rated life



PROJECT:

TYPE:

LOCATION:

CATALOG NUMBER:



### HTL20-PXL SERIES QUICK SPECS

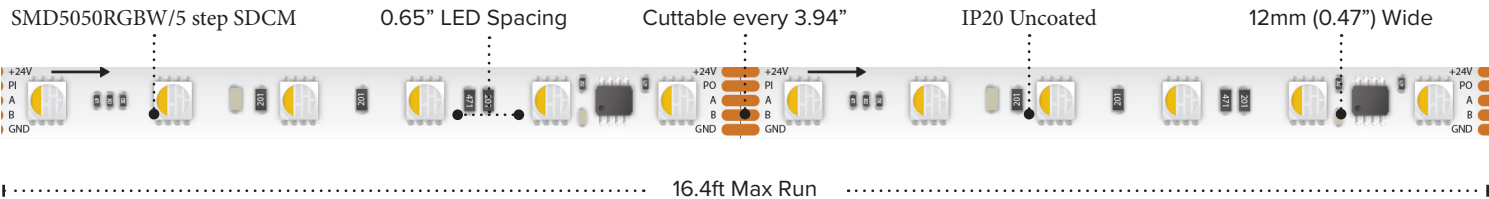
|                |                                |
|----------------|--------------------------------|
| VOLTAGE        | 24V DC                         |
| WATTAGE        | 6.1W / ft                      |
| LUMENS         | Up to 241Lm / ft               |
| CCT OPTIONS    | RGBW (3000K) Dynamic Pixel     |
| CRI            | 90+ (3000K)                    |
| MAX RUN        | 16.4ft                         |
| CUTTING POINTS | 3.94" (100mm)                  |
| IP RATING      | IP20 - Uncoated                |
| PROTOCOL       | DMX IC TM512AC                 |
| RESOLUTION     | 6 LEDs - 3.94" (100mm)         |
| DIMENSIONS     | 0.47" (12mm) W x 0.08" (2mm) H |
| BEAM ANGLE     | 120°                           |
| OPERATING TEMP | -20°C (-4°F) to 40°C (104°F)   |
| CERTIFICATIONS | cULus Listed - dry locations   |
| RATED LIFE     | 50,000 Hours                   |

### HTL20-PXL SERIES IP RATINGS



**IP20 (Uncoated)**  
Uncoated tape light and LED's  
Best suited: Indoor dry location

### HTL20-PXL SERIES QUICK LOOK



HTL20-PXL SERIES ORDERING INFORMATION

| ITEM NUMBER              | VOLTAGE | CCT  | LENGTH  | LUMENS / FT | WATTAGE / FT | IP RATING | CRI             | CUTTING       | MAX RUN |
|--------------------------|---------|------|---------|-------------|--------------|-----------|-----------------|---------------|---------|
| HTL20-PXL-RGBW6-24VDC-16 | 24V DC  | RGBW | 16.4 ft | 241Lm / ft  | 6.1W / ft    | IP20      | 90+(White only) | 3.94" (100mm) | 16.4ft  |

Includes: Attached 3ft lead wires

HTL20-PXL SERIES ACCESSORIES

| ITEM NUMBER       | DESCRIPTION                           |
|-------------------|---------------------------------------|
| TL-5PWR-HD        | 6' HD Power Feed (IP54)               |
| TL-5SPL-HD        | HD Splice (IP54)                      |
| TL-5JUMP6-HD      | 6" HD Linking Cable (IP54)            |
| TL-5JUMP24-HD     | 24" HD Linking Cable (IP54)           |
| WIRE-15-5PIN      | 15ft (20/5) Wire Spool                |
| WIRE-CMP-100-6PIN | 100ft (16/6) In-wall Rated Wire Spool |
| RCWY-PVC-1M       | 1m Plastic Wire Cover Raceway         |
| PXL-WRITER        | DMX Address Writer                    |



TL-5PWR-HD



TL-5JUMP6-HD  
TL-5JUMP24-HD



TL-5SPL-HD



WIRE-15-5PIN

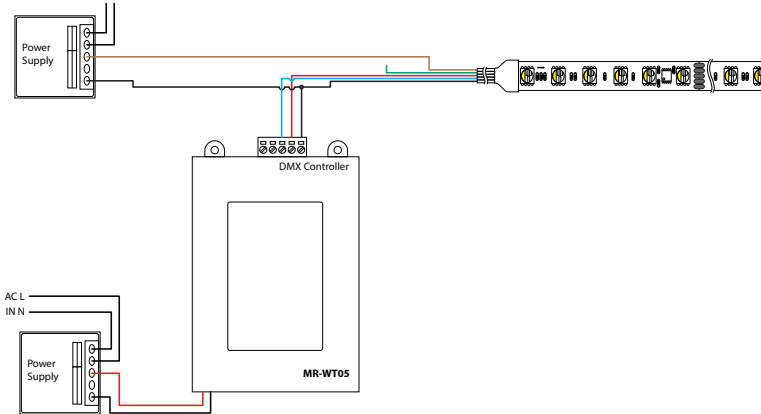


WIRE-CMP-100-6PIN



RCWY-PVC-1M

HTL20-PXL SERIES DMX QUICK SET-UP



1. "+24V" (Brown) wire of the LED strip, is connected to the Output 24V+ of the power supply
2. "PI" (Green) wire of the LED strip, is not used
3. "A" (Red) wire of the LED strip, is connected to the "DMX + / A" of the DMX Controller
4. "B" (Blue) wire of the LED strip, is connected to the "DMX - / B" of the DMX Controller
5. "GND" (White) wire of the LED strip, is connected and shared with the Output 24V- of the power supply and the "DMX GND" of the DMX Controller

RECOMMENDED POWER SUPPLIES

| ITEM NUMBER     | DESCRIPTION                    | MAX / MIN LOAD | INPUT VOLTAGE | OUTPUT VOLTAGE | DIMENSIONS               |
|-----------------|--------------------------------|----------------|---------------|----------------|--------------------------|
| ADPT-DRJ-30-24  | Adaptive Series 30W            | 30W / 3W       | 100-277V AC   | 24V DC         | 6.49"L x 3.6"W x 1.02"H  |
| ADPT-DRJ-60-24  | Adaptive Series 60W            | 60W / 6W       | 100-277V AC   | 24V DC         | 7.4"L x 3.6"W x 1.02"H   |
| ADPT-DRJ-96-24  | Adaptive Series 96W            | 96W / 9.6W     | 100-277V AC   | 24V DC         | 8.66"L x 3.6"W x 1.61"H  |
| ADPT-DRJ-192-24 | Adaptive Series 192W (2 x 96W) | 192W / 19.2W   | 100-277V AC   | 24V DC         | 10.94"L x 4.25"W x 1.8"H |
| ADPT-DRJ-288-24 | Adaptive Series 288W (3 x 96W) | 288W / 28.8W   | 100-277V AC   | 24V DC         | 11.85"L x 4.25"W x 1.8"H |

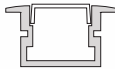
## COMPATIBLE MOUNTING CHANNELS 12mm



### ECONOMY

EE1-AAFR

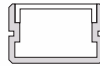
Dimensions: 5/8" (16mm) W  
x 1/4" (7mm) H



### DOUBLE FLANGE

PE-AA2DF

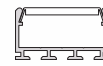
Dimensions: 5/8" (16mm) W  
x 7/16" (11mm) H



### GT

PE-GT

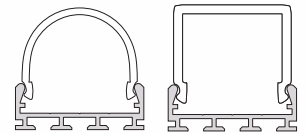
Dimensions: 3/4" (19mm) W  
x 1/2" (12mm) H



### GTX

PE-GTX

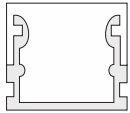
Dimensions: 1" (26mm) W  
x 9/16" (14.5mm) H



### TURBO

PE-TURBO2

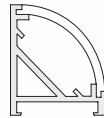
Dimensions: 1" (26mm) W x 1" (25mm) H



### TRACE

PE-TRACE

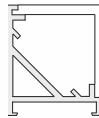
Dimensions: 13/16" (21mm) W  
x 13/16" (21mm) H



### RADIUS

PE-RAD

Dimensions: 25/32" (20mm) W  
x 29/32" (23mm) H



### RUBIK

PE-RUBIK

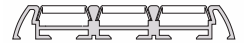
Dimensions: 29/32" (23mm) W  
x 25/32" (20mm) H



### STANT

PE-SSTANT

Dimensions: 1-3/16" (30mm) W  
x 1/4" (7mm) H



### TRIPLE STANT

PE-3STANT

Dimensions: 2-11/32" (59mm) W  
x 3/8" (9mm) H



### DYAD

PE-DYAD

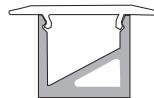
Dimensions: 1.35" (34.2mm) W  
x 0.47" (12mm) H



### CAMBER

PE-CMBR

Dimensions: 0.71" (18mm) W  
x 0.23" (5.7mm) H



### BEVEL 28

PE-B28

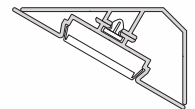
Dimensions: .47" (12mm) W  
x .47" (12mm) H



### PRO 45

PE-PRO45

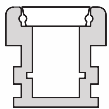
Dimensions: 1-3/16" (30mm) W  
x 7/16" (10mm) H



### PRO 30

PE-PRO30

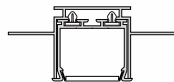
Dimensions: 1-13/16" (46mm) W  
x 1-1/16" (27mm) H



### PAVER

PE-PAVER

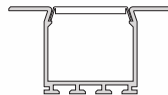
Dimensions: 1" (26mm) W  
x 1" (26mm) H



### MINI FLANGE SLOT

PE-SLOT

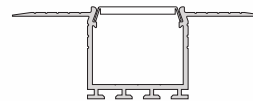
Dimensions: 1-3/16" (30mm) W  
x 15/16" (24mm) H



### STANDARD FLANGE SLOT

PE-DFSLOT

Dimensions: 1" (25mm) W  
x 15/16" (24mm) H



### INVISIBLE SLOT

PE-INVSLT

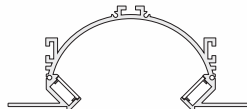
Dimensions: 1-1/16" (27mm) W  
x 15/16" (24mm) H



### VERGE

PE-VERGE

Dimensions: 4.85" (123.83mm) W  
x 25/64" (10mm) H



### ARC

PE-ARC

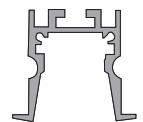
Dimensions: 4-13/16" (122.4mm) W  
x 2" (50.8mm) H



### SCOOP WW

PE-SWW

Dimensions: .54" (13.59mm) W  
x 3.79" (96mm) H



### REGAL REGRESS

PE-REG

Dimensions: 1.16" (29.49mm) W  
x 1.03" (26.25mm) H



### STRUT:

PE-STRUT

Dimensions: 5/8" (15.5mm) W  
x 1-3/8" (29.89mm) H



## AMERICAN LIGHTING WARRANTY

LIMITED WARRANTY FOR LED PRODUCTS: 5 YEARS

### AVERAGE LIFE

Average incandescent lamp life, rated life and average life are terms used to describe the number of hours at which half of the lamps have failed. For LEDs, the hours of rated life specify the point at which 70% of original lumen output is reached. Below this point, the effective life is over, however, the LED may still emit light. Individual results may vary with actual environmental conditions including, but not limited to, proper installation, ambient temperature and/or input voltage fluctuations.

**Warranty life based on average 8 hours/day use, 7 days/week. Product should be cycled off for at least 6 hours per day.**

### SAFETY

You must disconnect lighting products from the power supply before servicing or replacing bulbs. Only qualified personnel should install and perform service on lighting products. Periodic inspection and maintenance is required to keep equipment operating properly and at peak performance. Do not mount fixtures on or adjacent to combustible materials.

**Lighting products may present a possible shock or fire hazard if improperly installed or attached in any way. Products should always be installed in accordance with their instruction manuals, current electrical codes, and/or the current National Electric Code (NEC). Code compliance is the sole responsibility of the person, company, or party performing the installation of product. Failure to comply with national and/or regional safety codes may result in hazardous or dangerous conditions, damage to property or life, and/or altered product performance/specifications.**

### LIMITED PRODUCT WARRANTY

Our products are warranted to be free from defects in material and workmanship for the warranty period listed on the reverse by product category. Warranty periods begin from the date of shipment from American Lighting Inc's warehouse to the original purchaser. Products that prove to be defective during their specific warranty period will be either repaired or replaced, at the sole discretion of American Lighting Inc. Claims for defective products must be submitted in writing to American Lighting Inc's RGA Department within the warranty period. Upon approval of such return, American Lighting Inc reserves the right to inspect the product for misuse or abuse. Claims for indirect or consequential damages or for any product that, in American Lighting Inc's opinion, has been misused will be denied. This is a warranty of product reliability only and not a warranty of merchantability or fitness for a particular purpose. American Lighting Inc shall have no liability whatsoever in any event for payment of incidental or consequential damages, including, without limitations, installation costs and/or damages for personal injury and/or property. These products may represent a possible shock or fire hazard if improperly installed or altered in any way. This warranty does not apply to any product that has not been properly installed in accordance with current local codes and/or the National Electrical Code. Products that require a transformer, driver or power supply must be used in conjunction with American Lighting Inc's recommended power supply to ensure safety and retain product warranty. Limited Product Warranty applies to lengths up to 75 feet for rope light products.

### STANDARD LINEAR WARRANTY

Rope light and linear lighting products in all their various types and shapes, whether LED or incandescent, are wired in series parallel. This means that several individual lamps or LEDs are wired together in series to equal 12V, 24V or 120V. Then these sections are wired together (in parallel) to light up in unison. If one solder joint, lamp or resistor fails, a whole section will not light. Due to the number of elements involved, and the numerous extenuating circumstances beyond our control, American Lighting Inc offers a Standard Linear Warranty on most linear lighting products. The limited liability warranty is listed above, however the Standard Linear Warranty offers replacement product by section due to defective material and/or workmanship for one year beginning from the date of shipment from American Lighting Inc's warehouse to the original purchaser.

### USE OF LINEAR LIGHTING IN OUTDOOR APPLICATIONS

Incandescent rope light and LED Flexbrite UL 2388 custom cuts; incandescent and LED Flexbrite pre-packaged kits; and UL Listed (special order) cuts of LED Neon Flexbrite Plus and Economy have factory assembled power connections and end caps that seal the rope from moisture. Due to strict quality control standards, American Lighting is able to offer a limited warranty on these items rather than the standard linear lighting warranty that replaces product by defective section only. For outdoor applications, best practices include using kits interconnected (same length kits are best for color control of White LED Flexbrite) or using custom cuts that do not exceed 75 feet.

For all linear lighting categories, any non-rated field connection made in an outdoor application should be properly sealed with dielectric grease covering all conductive materials; and properly installed power connections and end caps, sealed with dielectric grease, silicone, and heat shrink tube. However, since non-rated (field executed) power connections of linear lighting products cannot be quality controlled, and outdoor use of non-rated product is not recommended, American Lighting cannot warrant the product to any purchaser.

### PRODUCT SPECIFICATIONS

For the latest product information, updates, instructions and details concerning specifications, colors, finishes, performance, installation and design, visit [www.americanlighting.com](http://www.americanlighting.com). Color may vary from the color printed herein due to limitations in photographic and printing processes. American Lighting Inc. reserves the right to change product specifications without notice. Other product specifications such as color temperature, wavelength characteristics and lumen output are subject to production limitations and may vary.

LED technology is changing rapidly, and not all color temperatures and performance levels can be duplicated at a later time. Best practices include purchasing 10-15% additional product for a project on the same initial order where white LED color temperatures must be maintained over project and product life. Eventual product replacement should be considered at layout and design stages. Best practices also include testing connections and product performance prior to mounting and/or installing.