

8PXW60-F-12-B – Datasheet



12V 60 LED/ Meter RGBW pixel strip with 20 controllable zones with black PCB.



ENTTEC 8PXW60-F-12-B is a 12v 60 LED per meter addressable RGBW LED Pixel Strip allowing individual color control over clusters of 3 RGBW LED's (20 per meter), well suited to professional architectural and entertainment purposes, used to display smooth animated graphics achieving soft pastels and saturated colors on a large scale.

Cut and join into any conceivable shape.

Its black PCB makes it perfectly suited for direct view applications where the black PCB will be lost in the darkness when all pixels are off.

It's fast 1.2KHz scan rate and 8-bit color depth means graphics and animations are played back are smooth and consistently.

At ENTTEC, manufacturing quality and attention to detail is paramount. We always use thicker copper PCB to offer more durability, better heat dissipation and reduced voltage drop when compared to other LED strips available on the market. This in combination with the 12v operating voltage allows up to a 5m run with a single power injection.

Features

- RGBW, 4 in 1 full color LED pixel strip.
- Premium flexible white 3oz thicker copper PCB's.
- Suitable for stage, entertainment and architectural applications.
- 12V DC input supply voltage.
- 60 LED's/meter density.
- 20 Pixels/meter density.
- UCS2904 IC chips.
- 4.29 billion possible shades per LED.
- 120-degree illumination.
- 3M adhesive double side tape on the rear.
- Built-in data signal reshaping circuit.
- High LED density.
- Can be cut or joined at each copper tab.
- IP20 Indoor use only.
- Designed for use with ENTTEC pixel products.
- Maximum 19.7 Watts/Meter.

Specification

Connectors	2* 3Pin JST SM connectors (3A Max)
IP rating	IP20
Input voltage	12V
Watts/meter (max)	RGB: 13.9 W
	W: 5.8 W
	Total: 19.7 W
Lumens/meter (max)	RGB: 274
	W: 236
	Total: 511
Efficacy (Lm/Watt)	25.9
DMX channels/pixel	4
Beam angle	120 °
Control protocol	UCS2904 (Compatible with WS2811)
Scan rate	1.5KHz
Backup data line	No
Pixel mapping order	GRBW
White temperature	4050K – 4250K
PCB color	Black
PCB width	10mm / 0.40"
Bend radius (Min)	30mm / 1.2"
Spacing between cuttable sections	50mm / 1.98"
Environmental operating temperature	0°C to 50°C 32°F to 122°F
Environmental operating humidity	5- 95% (non-condensing)
Weight (5m roll)	0.18Kg / 0.40lbs
Shipping dimensions (Single Roll)	240 * 215 * 16mm 9.45 * 8.47 * 0.63"
Shipping weight (Carton of 5 rolls)	0.80Kg / 1.76lbs
Shipping dimensions (Carton of 5 rolls)	260 * 225 * 93mm 10.24 * 10.04 * 3.66"
Warranty	1 year return to base manufacturer warranty

Certification



Box contents

- 1* 5m 8PXW60-F-12-B reel
- 1* 3Pin JST SM connector (3A max)
- Installation sheet

Connections

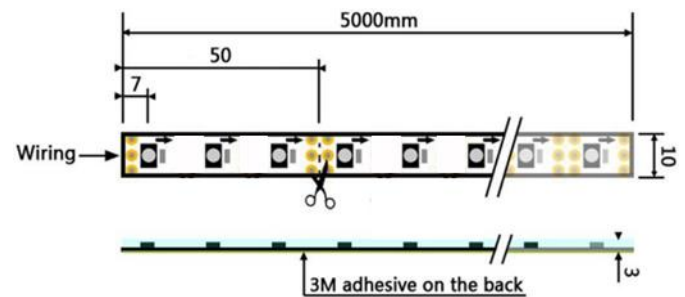
3PIN JST SM Connector:

- 12V
- DI: Data In
- GND: 0V

Visit the ENTTEC knowledgebase for wiring guides.

Physical Dimension

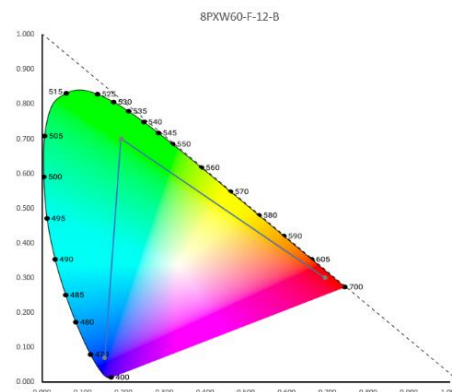
60 Pixels/meter



Safety

- Ensure all cabling is rated to handle the current of each pixel strip section. ENTTEC recommend separate wiring soldered directly to the strip, to substitute the original JST SM connector for sections exceeding 3A current consumption.
- Make all connections and ensure your installation is appropriately fused before powering it.
- Handle with care and adhere to the LED Pixel Strip instruction sheet.
- Pixel strips produce heat; ensure proper thermal management by attaching to a thermally conductive surface and providing 150mm / 6" for convection.
- This product is intended for indoor use only. Do not expose to moisture, doing so will void the warranty.
- Never plug this product into a dimmer.

Color Gamut Chart



Item	SKU
RGBW PIXEL STRIP 60 LEDs/ METER 12V – 5-METER ROLL BLACK	8PXW60-F-12-B