

LED Strip

RGBCW - 84 LED / m - 24V

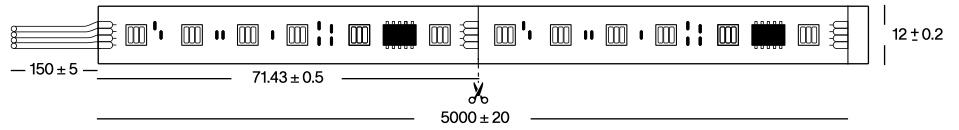


Overview

A dynamic RGBCW LED strip designed to turn light into a living medium—blending color, white tones, and movement into seamless experiences. It enables the creation of lighting content that evolves across space and time, combining refined whites, saturated colors, and fluid transitions. With segmented addressability, each section becomes a controllable unit—unlocking gradients, animations, and real-time interactions with precision and ease. Built to integrate effortlessly into diverse lighting ecosystems, the strip adapts to multiple control workflows and project scales—from intimate environments to large architectural installations.

- Create immersive atmospheres through a seamless interplay of whites and colors.
- Segmented addressability enables precise control for dynamic effects and scalable compositions.
- Designed for real-time interaction, responding to data, inputs, and live systems.
- Interoperable by design, ensuring smooth integration across protocols and workflows.
- Versatile across architectural, experiential, and interactive lighting applications.

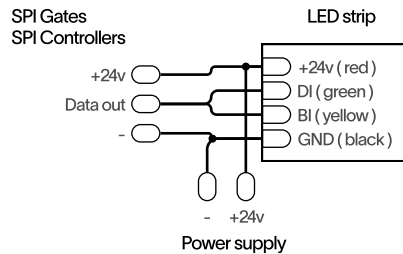
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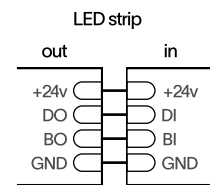
All measures indicated in mm

Installation & Safety Instructions

- Installation and maintenance must be performed by a qualified electrician.
- Ensure the product is fully disconnected from power before installation.
- Verify correct wiring and system parameters before power-on.
- Supply voltage must not exceed rated voltage by more than 0.5 V.
- Do not bend the strip below 60° or apply mechanical stress (pulling/twisting).
- Avoid contact with sharp objects.
- Do not use organic solvents or install in strong acid/alkali environments.
- Ensure all connections are secure, insulated, and protected against moisture and corrosion.
- For power ≥ 14.4 W/m, install in a suitable heat-dissipating profile.
- Operating temperature: -20 °C to +45 °C.



For the LED strip to function correctly, both (DI and BI) must be connected to the Gate's or controller data output.



Ensure that all wires are fully connected from the end of one LED strip to the beginning of the next strip.

Optical

Pixel ordering	RGBCW			
CCT	RGB+(2200K+5500K)			
CRI	≥ 90			
Beam angle	120°			
Luminous flux (lm/m)				
R	G	B	C	W
120	350	80	400	330

Control

Dimming	PWM 8-bit
Driver IC	WS2805
Control protocol	SPI Data
Pixel control	6 LEDs per pixel

Electrical

Input voltage	24V
Power consumption	25 W/m $\pm 10\%$
System efficacy (max, all channels on)	~ 51 lm/W
White channel Efficiency	up to 66–80 lm/W
Max length (30% lm drop)	5000mm

Environmental & Operating Conditions

Environment	Indoor
Operating temperature	-20°C to 45 °C below 14.4W
Storage temperature	-40 °C to +85 °C
IP Rating	IP20

Mechanical

Length per reel	5000 ± 20 mm
LEDs / meter	84
Cut segment length	71.43 ± 0.5 mm
LEDs / segment	6
Connector type	Hippo 4-pin clip
Adhesive backing type	3M (300LSE)

⚠ Cautions

- Electrical values are typical; power $\pm 10\%$.
- ≤ 14.4 W/m: no additional heat sinking required. > 14.4 W/m: heat sinking required.
- Power must be OFF during installation.
- Do not alter structure or exceed specified connection length.

