LED STRIP · RGB · 5050 SMD

RGB-1030

10 mm low-power RGB LED strip, 30 LEDs/m, 7.2 W/m · 12 / 24 V DC



PCB WIDTH 10 mm	POWER 7.2 W/m
VOLTAGE 12 / 24 V DC	CUT UNIT (24 V) 167 mm
LED DENSITY 30 LEDs/m	MIN. BEND RADIUS 50 mm

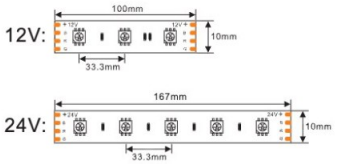
Overview

RGB-1030 is a 10 mm low-power RGB LED strip with 30 5050 tri-chip LEDs per metre. At only 7.2 W/m it is ideal for subtle colour effects, ambient and mood lighting, long decorative runs and installations where low heat and low current matter, such as behind panels and in shallow coves on board. Works with any 3-channel RGB controller, 12 or 24 V DC.

Specifications

Dimension	5000 × 10 × 2 mm (5 m reel)
LED	5050 SMD RGB, 30 LEDs/m, 33.3 mm pitch
Cut unit	5 LEDs / 167 mm (24 V) · 3 LEDs / 100 mm (12 V)
Power	7.2 W/m (all channels on)
Current	0.3 A/m (24 V) · 0.6 A/m (12 V)
Colours	Red 622 nm · Green 523 nm · Blue 466 nm (dominant)
Beam angle	120°
Dimming	PWM
PCB	2 oz double-layer copper, 3M adhesive
Min. bend radius	50 mm
Ambient temperature	−20 °C to +50 °C
Lead wire	150 mm, 4-core, 20 AWG
Protection	IP20 standard; IP52, IP65H, IP65, IP67, IP67E, IP68 on request

Cut Unit



ORDERING INFORMATION

Product Code

RGB-1030	RGB	24 V
MODEL	COLOUR	VOLTAGE
	3 channels	12·24 V DC

Specify supply voltage when ordering. Example: **RGB-1030**, 24 V DC. Requires a 3-channel RGB controller.

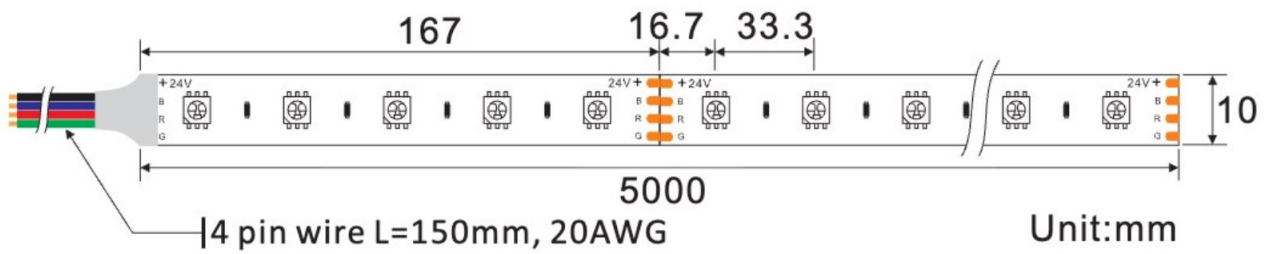
Photometric Data

CHANNEL	DOMINANT WAVELENGTH	POWER	LM/M	LM/W
Red	622 nm	2.24 W/m	65	29
Green	523 nm	2.44 W/m	210	86
Blue	466 nm	2.29 W/m	39	17
RGB (all on)	—	7.04 W/m	310	44

Measured on IP20 strip, one channel at full output; RGB = all channels on.

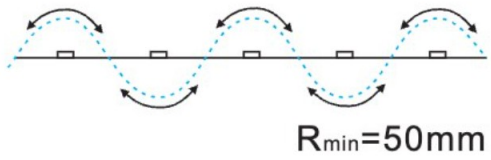
DIMENSIONS & INSTALLATION

Dimensions (unit: mm)



5 m reel, 10 mm PCB; cut marks every 167 mm (24 V) or 100 mm (12 V); 150 mm 4-core lead wire, 20 AWG.

Bending



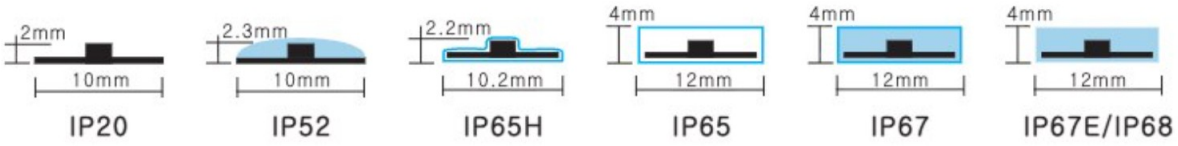
Flexible strip; minimum bend radius 50 mm. Do not bend at the cut marks.

Wiring

CORE	FUNCTION
Black	V+ (common anode)
Red	Red channel (–)
Green	Green channel (–)
Blue	Blue channel (–)

4-core lead wire, 150 mm, 20 AWG. Use a 3-channel RGB controller matching the supply voltage.

Waterproof Versions



VERSION	CONSTRUCTION	SIZE (W × H)
IP20	Bare PCB	10 × 2 mm
IP52	Silicone coating	10 × 2.3 mm
IP65H	Heat-shrink tube	10.2 × 2.2 mm
IP65	Silicone tube	12 × 4 mm
IP67	Silicone tube, filled	12 × 4 mm
IP67E / IP68	Solid silicone extrusion	12 × 4 mm

Light output and power may vary by up to ±10% due to production and component tolerances.