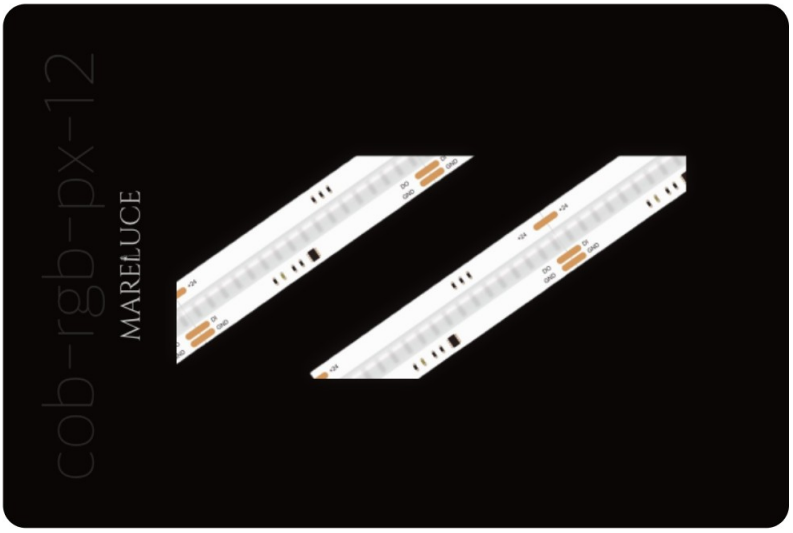
LED STRIP · COB · ADDRESSABLE RGB

COB-RGB-PX-12

12 mm dot-free addressable RGB COB LED strip, WS2811, 720 chips/m, 23 W/m · 24 V DC



PCB WIDTH	12 mm
POWER	23 W/m
VOLTAGE	24 V DC
CUT UNIT	50 mm
IC	WS2811
CONTROL	SPI

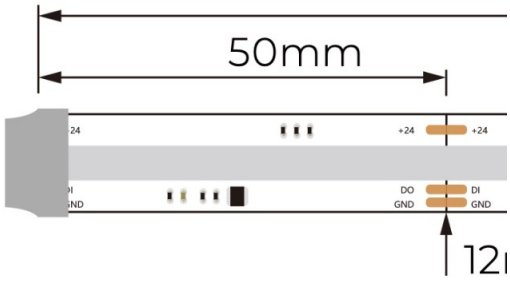
Overview

COB-RGB-PX-12 combines chip-on-board technology with addressable control: 720 RGB chips per metre under a continuous diffusing layer, driven by WS2811 ICs in 50 mm pixels. Chases, gradients and animated colour effects run as a seamless, dot-free line without visible LED points, ideal for feature lighting on decks, ceilings and bars on board. 24 V DC, SPI single data line.

Specifications

Dimension	5000 × 12 × 1.8 mm (5 m reel)
LED	COB RGB, 720 chips/m
IC	WS2811, SPI single data line
Pixels	50 mm per pixel
Cut unit	50 mm
Power	23 W/m (all channels on)
Voltage	24 V DC
Beam angle	180°
Ambient temperature	−25 °C to +45 °C
Storage temperature	−25 °C to +60 °C
Max. run length	5 m
Min. bend radius	10 mm
Lead wire	3-core with connectors at both ends
Protection	IP20 standard; IP52, IP65H, IP65, IP67 on request

Cut Unit



ORDERING INFORMATION

Product Code

COB-RGB-PX-12	RGB	24 V
MODEL	COLOUR	VOLTAGE
	WS2811 · SPI	24 V DC

Example: **COB-RGB-PX-12**, 24 V DC. Controlled by any SPI pixel controller supporting WS2811.

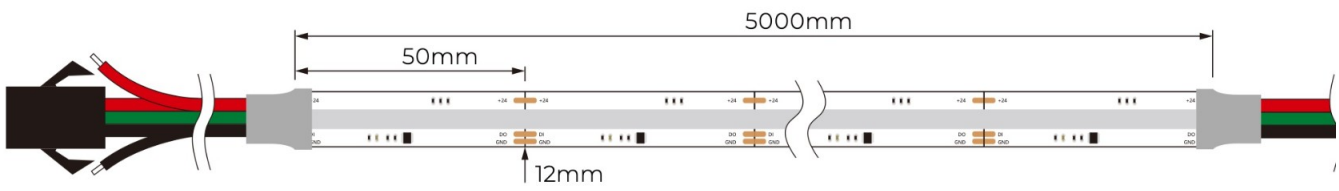
Photometric Data

CHANNEL	CCT / COLOUR	POWER	LM/M	LM/W
Red	R	7.6 W/m	122	16.1
Green	G	7.6 W/m	509	67.0
Blue	B	7.6 W/m	68	8.9
RGB (all on)	—	23 W/m	759	33.0

Measured on IP20 strip at 24 V DC; one channel at full output, RGB = all channels on. Efficacy calculated from the measured lumen and power values.

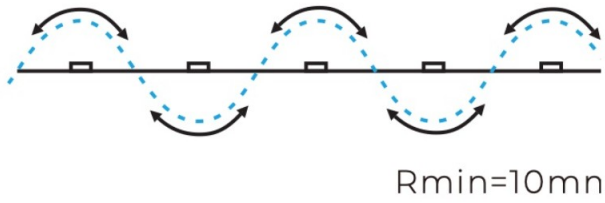
DIMENSIONS & INSTALLATION

Dimensions (unit: mm)



5 m reel, 12 mm PCB; cut every 50 mm (one pixel); connector leads at both ends.

Bending



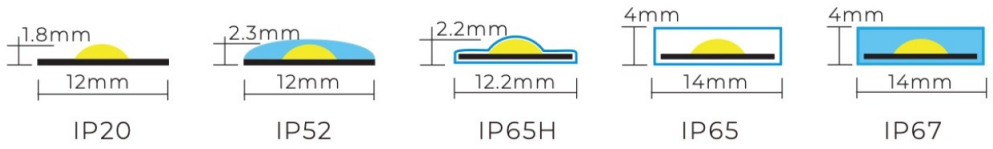
Flexible strip; minimum bend radius 10 mm.

Wiring & Control

Cores	+24 V · Data DI/DO · GND
IC	WS2811
Controller	SPI pixel controller, WS2811 compatible
Dimming	PWM below 2 kHz

3-core lead wire with waterproof connectors at both ends.

Waterproof Versions



VERSION	CONSTRUCTION	SIZE (W × H)
IP20	Bare PCB	12 × 1.8 mm
IP52	Silicone coating	12 × 2.1 mm
IP65H	Heat-shrink tube	12.2 × 2 mm
IP65	Silicone tube	14 × 4 mm
IP67	Silicone tube, filled	14 × 4 mm

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