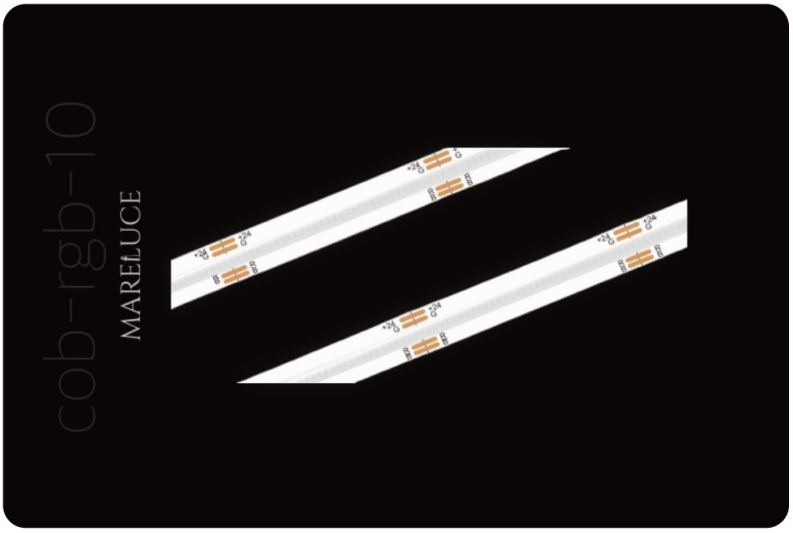
LED STRIP · COB · RGB

COB-RGB-10

10 mm dot-free RGB COB LED strip, 15 W/m · 24 V (840 chips/m) or 12 V (720 chips/m)



PCB WIDTH	10 mm
POWER	15 W/m
VOLTAGE	12 / 24 V DC
CUT UNIT (24 V)	50 mm
BEAM ANGLE	180°
MIN. BEND RADIUS	10 mm

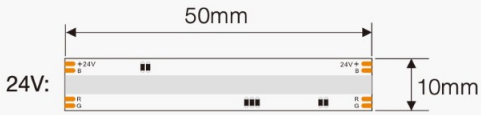
Overview

COB-RGB-10 is a 10 mm chip-on-board RGB LED strip whose densely packed chips sit under a continuous diffusing layer, producing seamless, dot-free colour even in shallow profiles. The 180° emission gives smooth colour washes for coves, ceilings, bars and furniture details on board. Available as 24 V (840 chips/m) or 12 V (720 chips/m), 15 W/m; works with any 3-channel RGB controller.

Specifications

Dimension	5000 × 10 × 2 mm (5 m reel)
LED	COB RGB · 840 chips/m (24 V) · 720 chips/m (12 V)
Cut unit	42 chips / 50 mm (24 V) · 18 chips / 25 mm (12 V)
Power	15 W/m (all channels on)
Current	0.625 A/m (24 V)
Max. run length	5 m
Beam angle	180°
PCB	2 oz copper, 3M adhesive
Ambient temperature	−20 °C to +50 °C
Min. bend radius	10 mm
Dimming	PWM
Lead wire	150 mm, 4-core, 20 AWG
Protection	IP20 standard; IP52, IP65H, IP65, IP67 on request

Cut Unit



ORDERING INFORMATION

Product Code

COB-RGB-10	RGB	24 V
MODEL	COLOUR	VOLTAGE
	3 channels	12 · 24 V DC

Specify supply voltage when ordering. Example: **COB-RGB-10**, 24 V DC. Requires a 3-channel RGB controller.

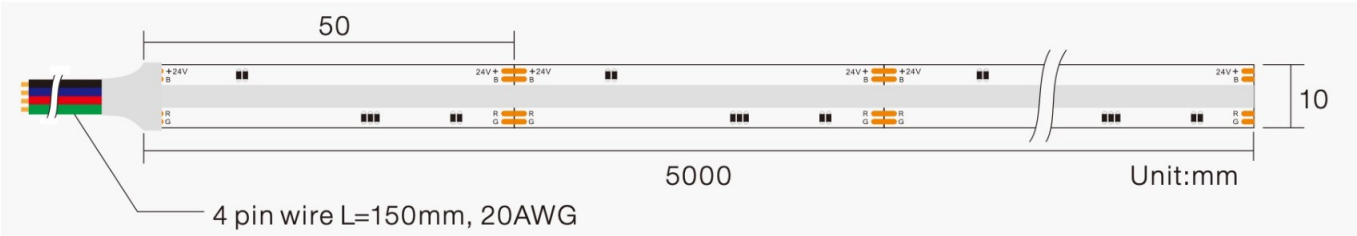
Photometric Data

CHANNEL	WAVELENGTH / CCT	POWER	LM/M	LM/W
24 V · Red	620–630 nm	4.83 W/m	140	29.0
24 V · Green	520–530 nm	5.23 W/m	450	86.0
24 V · Blue	465–475 nm	4.94 W/m	84	17.0
24 V · RGB (all on)	—	15 W/m	646	43.1
12 V · Red	620–630 nm	7.6 W/m	144	19.0
12 V · Green	520–530 nm	3.3 W/m	304	92.0
12 V · Blue	450–460 nm	4.4 W/m	48	11.0
12 V · RGB (all on)	—	15 W/m	495	33.0

Measured on IP20 strip, one channel at full output; RGB = all channels on. Drawings show the 24 V version.

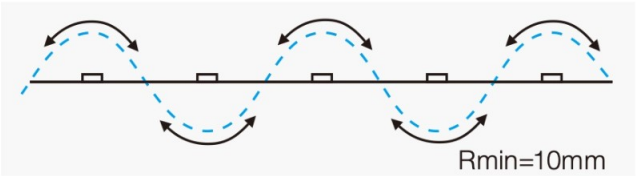
DIMENSIONS & INSTALLATION

Dimensions (unit: mm)



5 m reel, 10 mm PCB; cut every 50 mm (24 V) or 25 mm (12 V); 150 mm 4-core lead wire, 20 AWG.

Bending



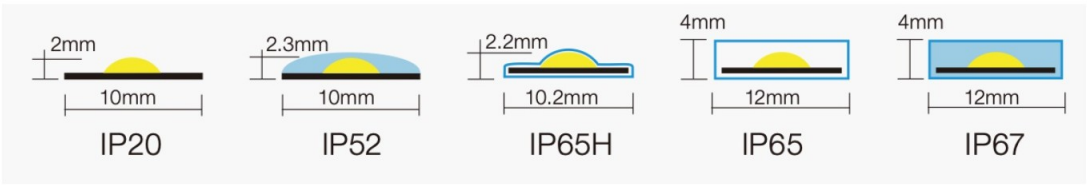
Flexible strip; minimum bend radius 10 mm.

Wiring & Control

Cores	V+ · Red · Green · Blue
Controller	3-channel RGB, matching supply voltage
Dimming	PWM

4-core lead wire, 150 mm, 20 AWG.

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

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