LED STRIP · COB · RGBW

COB-RGBW-12

12 mm dot-free RGBW COB LED strip, 840 chips/m, 16 W/m · 24 V DC



PCB WIDTH 12 mm	POWER 16 W/m
VOLTAGE 24 V DC	CUT UNIT 33.3 mm
WHITE CCT 2700–6500K	MIN. BEND RADIUS 10 mm

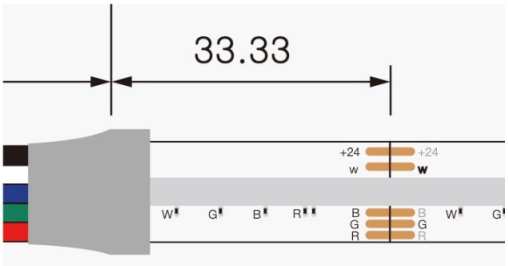
Overview

COB-RGBW-12 is a 12 mm chip-on-board RGBW LED strip with 840 chips per metre under a continuous diffusing layer. Colour and a dedicated white channel blend into one seamless, dot-free line, giving both atmospheric colour scenes and clean functional white light from a single strip on board. White channel available in 2700K, 3000K, 4000K or 6500K; 24 V DC, works with any 4-channel RGBW controller.

Specifications

Dimension	5000 × 12 × 2 mm (5 m reel)
LED	COB RGBW, 840 chips/m
Cut unit	28 chips / 33.33 mm
Power	16 W/m
White channel	2700K, 3000K, 4000K or 6500K · CRI 90
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
Voltage	24 V DC
Protection	IP20 standard; IP65 on request

Cut Unit



ORDERING INFORMATION

Product Code

COB-RGBW-12
MODEL

3000K
WHITE CHANNEL
2700K · 3000K · 4000K · 6500K

24 V
VOLTAGE
24 V DC

Specify white colour temperature when ordering. Example: **COB-RGBW-12**, 3000K, 24 V DC. Requires a 4-channel RGBW controller.

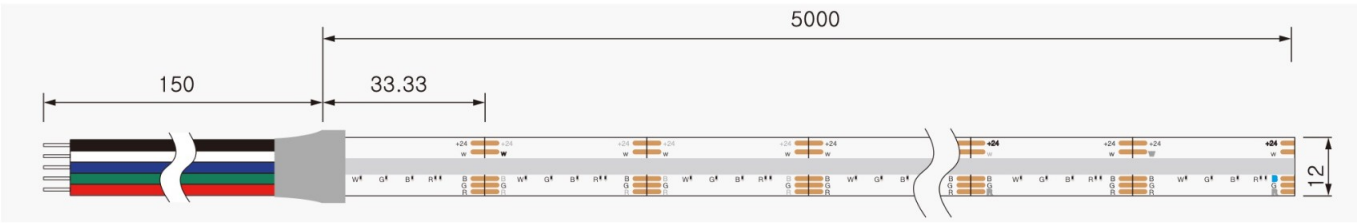
Photometric Data

CHANNEL	WAVELENGTH / CCT	POWER	LM/M	LM/W
Red	620–630 nm	6.4 W/m	154	24.0
Green	520–530 nm	2.6 W/m	278	107.0
Blue	450–460 nm	3.0 W/m	42	14.0
White	2700K	4.2 W/m	319	76.0
White	3000K	4.2 W/m	332	79.0
White	4000K	4.2 W/m	395	94.0
White	6500K	4.2 W/m	332	79.0

Measured on IP20 strip at 24 V DC, CRI 90, one channel at full output. Unit cut 33.3 mm, max run 5 m.

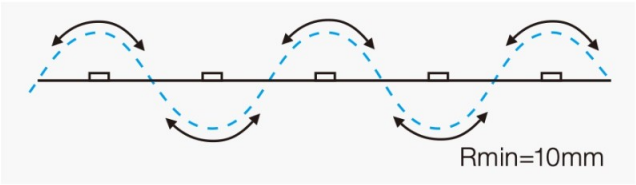
DIMENSIONS & INSTALLATION

Dimensions (unit: mm)



5 m reel, 12 mm PCB; cut every 33.33 mm (28 chips); 150 mm 5-core lead wire.

Bending



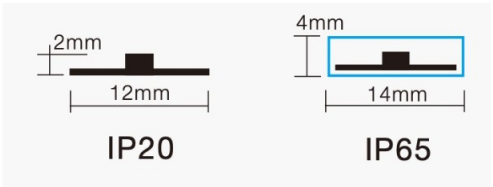
Flexible strip; minimum bend radius 10 mm.

Wiring & Control

Cores	V+ · Red · Green · Blue · White
Controller	4-channel RGBW, 24 V DC
Dimming	PWM

5-core lead wire, 150 mm.

Waterproof Versions



VERSION	CONSTRUCTION	SIZE (W × H)
IP20	Bare PCB	12 × 2 mm
IP65	Silicone tube	14 × 4 mm

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