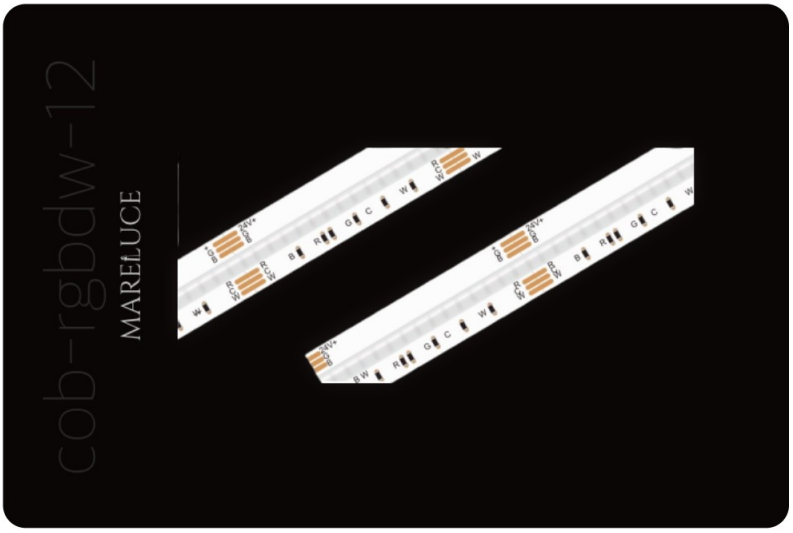
LED STRIP · COB · RGB + DUAL WHITE

COB-RGBDW-12

12 mm dot-free RGB + tunable white 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 41.67 mm
WHITE CCT 3000K + 6000K	MIN. BEND RADIUS 10 mm

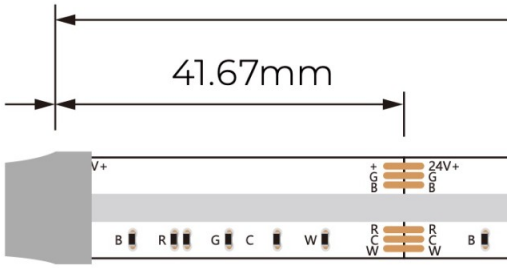
Overview

COB-RGBDW-12 is a 12 mm five-channel chip-on-board LED strip with 840 chips per metre under a continuous diffusing layer. Red, green, blue, warm white and cool white blend into one seamless, dot-free line, so a single strip delivers colour scenes as well as tunable white light from 3000K to 6000K on board. 24 V DC, works with any 5-channel RGB + CCT controller.

Specifications

Dimension	5000 × 12 × 1.8 mm (5 m reel)
LED	COB RGB + WW + CW, 840 chips/m
Cut unit	41.67 mm
Power	16 W/m (all channels on)
Voltage	24 V DC
White channels	3000K and 6000K · CRI 90
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
Dimming	PWM
Lead wire	150 mm, 6-core
Protection	IP20 standard; IP52, IP65H, IP65, IP67 on request

Cut Unit



ORDERING INFORMATION

Product Code

COB-RGBDW-12	RGB+CCT	24 V
MODEL	COLOUR	VOLTAGE
	RGB · 3000K · 6000K	24 V DC

Example: **COB-RGBDW-12**, 24 V DC. Requires a 5-channel RGB + CCT controller.

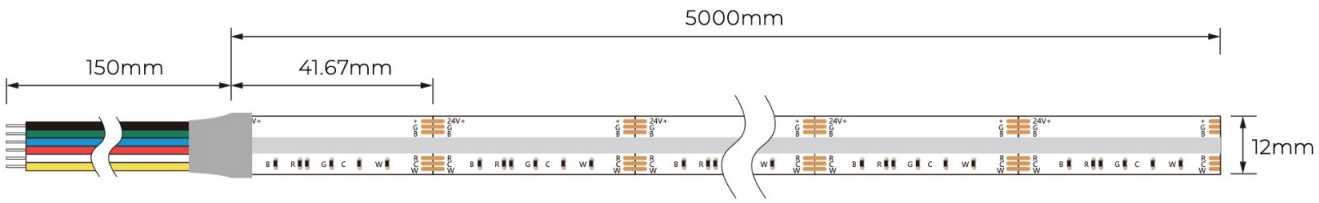
Photometric Data

CHANNEL	CCT / COLOUR	POWER	LM/M	LM/W
Red	R	6 W/m	162	27.0
Green	G	2 W/m	252	126.0
Blue	B	2 W/m	36	18.0
Warm white	3000K	3.2 W/m	285	89.0
Cool white	6000K	3.2 W/m	269	84.0
RGBTW (all on)	—	16 W/m	928	58.0

Measured on IP20 strip at 24 V DC; one channel at full output, RGBTW = all channels on. White channels CRI 90. Efficacy calculated from the measured lumen and power values.

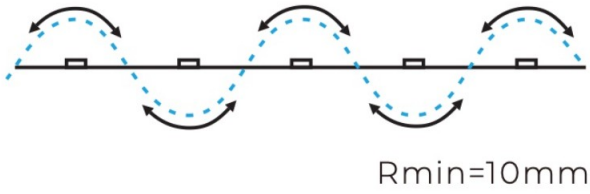
DIMENSIONS & INSTALLATION

Dimensions (unit: mm)



5 m reel, 12 mm PCB; cut every 41.67 mm; 150 mm 6-core lead wire.

Bending



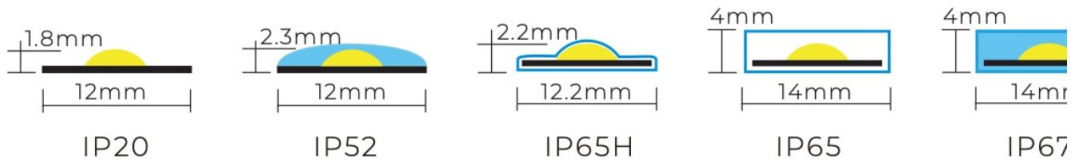
Flexible strip; minimum bend radius 10 mm.

Wiring & Control

Cores	V+ · R · G · B · WW · CW
Controller	5-channel RGB + CCT, 24 V DC
Dimming	PWM

6-core lead wire, 150 mm.

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.