

CONTINUOUS LIGHT / COB SERIES

iCOB Slimline 5 mm

10 W/m / Free-Cut COB

 Slim dimensions.
Seamless illumination.

SL MODEL / IC0B5



VOLTAGE

24 V DC

POWER / METRE

10 W/m

LIGHT OUTPUT

1,150 lm/m

maximum supplier value

01 Technical specification

Supply voltage	24 V DC
Power consumption	10 W/m
Colour rendering / CRI	Ra >= 90
Colour temperatures	2700 / 3000 / 4000 / 6500 K
LED density	320 LEDs/m (table listing)
PCB width	5 mm
Ingress protection	IP20 / dry indoor use
Drive type	Constant voltage
Cutting	Free-Cut / 6.25 mm reference*
Adhesive backing	3M 300
Max run / one-end feed	10 m
Max run / both-end feed	20 m
Dimming / warranty	Confirm compatible system / terms

LIGHT, WITHOUT THE SPOTS.

A 5 mm wide PCB brings continuous COB light to compact linear lighting and joinery applications.

APPLICATION IDEAS

Joinery & shelving
Feature & cove lighting
Retail display details

02 Colour options & dimensions

2700 K

1000-1050 lm/m

3000 K

1000-1050 lm/m

4000 K

1050-1100 lm/m

6500 K

1100-1150 lm/m

DIMENSIONAL GUIDE / SCHEMATIC, NOT TO SCALE



5 mm PCB

Supplier cut reference: 6.25 mm* / strip height to be confirmed.

*Supplier states 6.25 mm and Free-Cut. Confirm permitted cut positions against the actual reel.

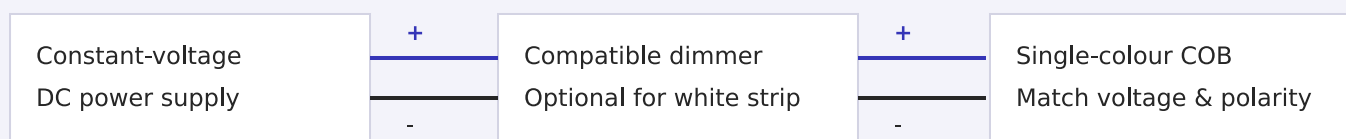
Install with confidence.

iCOB Slimline 5 mm / Installation guide

Plan the driver, strip runs, connections and mounting before installation.

Use this guide with the confirmed ratings and supplier instructions for your reel.

01 Plan the complete system



DC side only. For 20 m runs, feed both strip ends and maintain matching polarity.

02 Measure. Prepare. Connect.

01 Plan & size

10 m: feed one end. 20 m: feed both ends.
Check driver load, cable size and voltage drop.

02 Test before fitting

Unroll the strip and test with its rated DC supply. Isolate power before cutting or wiring.

03 Confirm the cut points

Follow the approved cutting instructions for the exact reel. Never cut through an LED.

04 Prepare & mount

Use a clean, dry mounting surface and a suitable aluminium profile for heat dissipation.

05 Connect carefully

Use Beetle Clip X or Invisible (Page 3).
Check fit, polarity and current; support leads.

06 Commission & finish

Check each run, fit the diffuser and test uniform illumination and dimming operation.

03 Driver sizing & accessories

SIZE THE DRIVER

Load = strip length x watts per metre
Example: 5 m x 10 W/m = 50 W
At 24 V DC: 50 W / 24 V = 2.08 A
Allow for driver loading limits and temperature derating.

COMPLETE THE SYSTEM

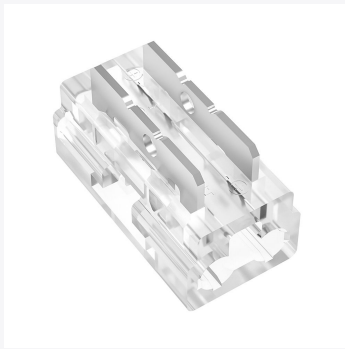
Profile: fit the 5 mm PCB.
Driver: match voltage and total load.
Dimmer: confirm method and current rating.
Clips: see both Beetle options on Page 3.
Check current capacity at every connection.

Avoid sharp bends. Never power a coiled reel. Mains connections: qualified electrician.

Choose the right connection.

5 mm COB / Onlumi Beetle Clip options

Two solderless options for dry indoor, single-colour strip installations.
 Check the actual reel and connection load before selecting your clip.



Beetle Clip X

BCX-5-2 / versatile connection layouts

Straight, L, T and cross arrangements;
 strip joints and connections to wire.

MAXIMUM CURRENT*

2 A / 2.5 A

2 oz / 3 oz PCB copper respectively

Voltage: up to 24 V DC

Wire: 20–22 AWG / 0.32–0.52 mm²

Flexible PCB: 0.25–0.35 mm thick

Supplied without wire as standard.



Beetle Clip Invisible

Low-profile joints, power leads & bridges

Straight joint: BCI5BB-2

Joint body: 15.6 × 6.6 × 3.3 mm

MAXIMUM CURRENT* / 2 oz : 3 oz

Straight joint **3 A : 3.5 A**

20 AWG pre-wired **4 A : 4.5 A**

18 AWG pre-wired **4 A : 5.5 A**

Up to 24 V DC / 150 mm lead variants

Flexible PCB: 0.25–0.35 mm thick

*Ratings depend on PCB copper weight and application. Confirm suitability for the actual strip.

01 Fit. Connect. Check.

01 Confirm fit

5 mm / 2 pins / IP20 only. Trial-fit the clip and check clearance inside the profile.

03 Make the connection

Align + and – with the correct terminals.
 Seat and secure to Onlumi instructions.

02 Prepare the strip

Isolate power. Follow reel cutting guidance;
 confirm a suitable contact area for the clip.

04 Support & test

Support cables so joints carry no strain.
 Test the joint and strip before final mounting.

CHECK THE LOAD THROUGH EACH CLIP

At 10 W/m, 24 V: 5 m draws 2.08 A; 10 m draws 4.17 A. Run limits do not establish clip capacity.

Divide feeds or select a higher-rated connection where needed. Free-Cut does not guarantee clip fit.