RGB COB LED RIBBON | 15 WATTS PER METRE | IP66

ALWAYS UNCOIL BEFORE USE

COLOUR	CODE
RGB	BL-LS-COB15-RGB-IP66

COLOUR VARIANCE +/- 200K
ELECTRICAL & OPTICAL DATA VARIANCE +/- 10%
SOLD BY THE METRE

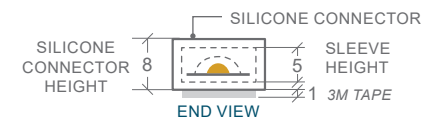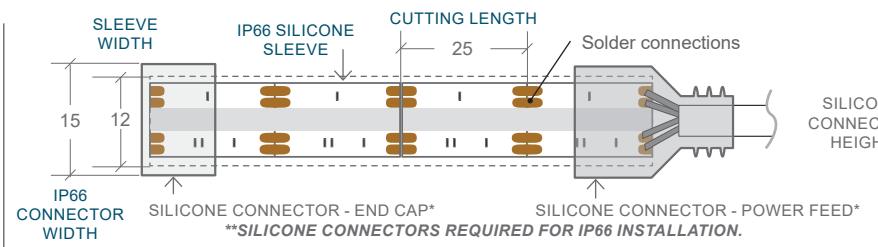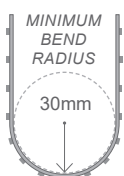|	
LED WATTS	15W/m
INPUT VOLTS	24V DC constant voltage
OPERATING TEMP.	-25°C ~ +45°C
MAX. RUN PER POWER FEED	5 metres
LUMENS	R 123lm/m G 310lm/m B 51lm/m
BEAM ANGLE	180°
SOURCE LIFE	50,000 hours
WARRANTY	3 years
MOUNTING	3M adhesive backing ***A Bright Light approved aluminium profile is required for thermal management & environmental protection***
INGRESS PROTECTION	IP66 - General exterior & interior use. Encased in silicone sleeve. Protection established by use of silicone connections *Not suitable for submerged applications*
CONTROL	Requires 3-channel RGB controller. Requires 4-core cable.

Do not twist the light or bend against the light surface

MINIMUM BEND RADIUS

30mm

SLEEVE WIDTH

IP66 SILICONE SLEEVE

CUTTING LENGTH

25

Solder connections

15 | 12

IP66 CONNECTOR WIDTH

SILICONE CONNECTOR - END CAP*

SILICONE CONNECTOR - POWER FEED*

**SILICONE CONNECTORS REQUIRED FOR IP66 INSTALLATION.*

SILICONE CONNECTOR

SILICONE CONNECTOR HEIGHT | 8

SLEEVE HEIGHT | 5
3M TAPE | 1

END VIEW

CONNECTORS - SILICONE

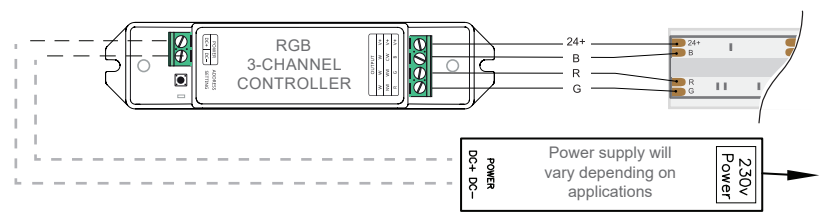WIDTH 15MM × H8MM
SOLD SEPARATELY

POWER FEED
BL-LS-CS-RGB-IP66-PC

END CAP
BL-LS-CS-RGB-IP66-EC

3-CHANNEL CONTROLLER WITH RGB STRIP & POWER SUPPLY

Example Only. Always refer to installation guide for controller being used.

RGB 3-CHANNEL CONTROLLER

24+
B
R
G

24+
B
R
G

POWER
DC+ DC–

Power supply will vary depending on applications

230v Power

NOTE FOR DIMMING/ CONTROL OF RGB

*This product requires a controller with 3 channels, it uses a common positive and all colours are controlled by PWM on the negative side. Requires 4-core cable for all installations, cable diameter will depend on distance & amps required by the LED strip.

INSTALLATION FOR SILCONE CONNECTORS

CUT EXACTLY ON LINE

COB ribbon needs to be cut **exactly** on the cut line between the solder pads. The LED's are extremely close together and deviation from this line may result in blue light being visible from a partially exposed LED. If this occurs, either recut at the next cut line or add a touch of dark light-blocking silicone to prevent light bleed at the edge.
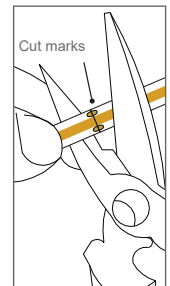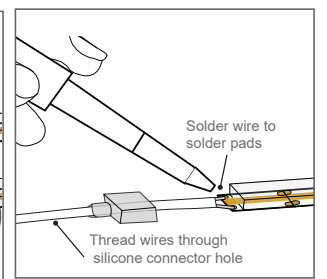
To ensure IP66 rating: All open LED COB ribbon ends need to be covered with a power connector or end cap. Do not leave any end exposed.

Cut marks

ADD A POWER CABLE CONNECTION

Use craft knife to carefully notch cut the silicone cover from LED ribbon strip solder pads (about 3mm). **Avoid cutting pcb or LED phosphor**.
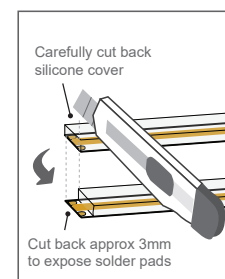
Cut and trim the wires to the appropriate length required. Thread wires through silcone connector power feed hole and solder wire to the soldering pads at the end of the LED ribbon strip. ensuring the correct +24V, R, G, B polarity to form a continuous electrical circuit**.**

Carefully cut back silicone cover

Cut back approx 3mm to expose solder pads

Solder wire to solder pads

Thread wires through silicone connector hole
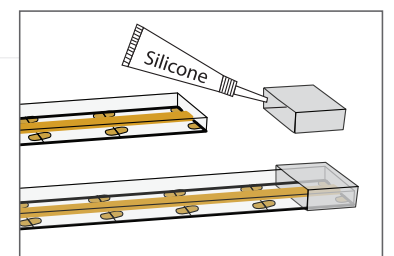
SEAL POWER CONNECTOR

Peal off 15mm of the 3M tape from back of the ribbon strip.
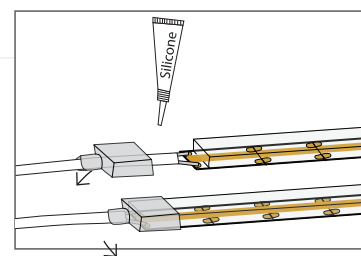
Insert liquid silicone to completely cover strip solder connection point (to at least 3mm depth). Then fill the silicone power feed connector with liquid silicone before fitting it over COB sleeve end to ensure IP66 rating.

Silicone

SEAL END CAP

Insert liquid silicone into end cap and fit over end of ribbon. Allow silicone to set before use.

End cap required for IP66 rating.

Silicone

Actual product characteristics may vary. Bright Light reserves the right to improve, modify or update the product designs without prior notice.

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