BRIGHTLIGHT
LED LIGHTING SOLUTIONS

TUNEABLE WHITE LED RIBBON STRIP | 12 WATTS PER METRE

COLOUR	CODE
2700–6500K TUNEABLE	BL-LS-3002-IP65

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

LED WATTS	12W/m
INPUT VOLTS	24V DC constant voltage
OPERATING TEMP.	-20°C ~ +60°C
MAX. RUN PER POWER FEED	5 metres
CRI	≥80
LUMENS	2700K 1080lm/m 6500K 1140lm/m
BEAM ANGLE	120°
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	IP65 achieved with silicone spray
CONTROL	Requires 2-channel controller

ALWAYS UNCOIL BEFORE USE

CUTTING LENGTH
71.4
WIDTH
10
11.9
LED PITCH
Silicone spray
Solder connections

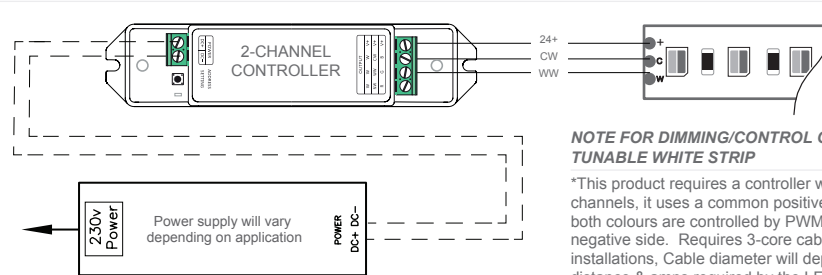Do not twist the light or bend against the light surface

MINIMUM BEND RADIUS
25mm
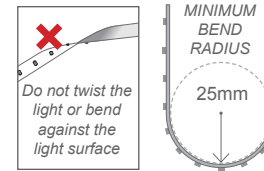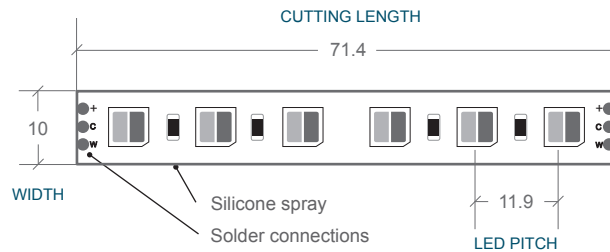
IP65 WATER-RESISTANT

With an IP65 rating, LED ribbon strip can be used in an outside setting and is water-resistant, but is not waterproof and is not suitable to be submerged. Please consider outdoor usage carefully and ensure adequate drainage.

To ensure the IP65 rating, silicone needs to be applied to all LED Ribbon Strip ends / joins.

**2-CHANNEL CONTROLLER WITH TUNABLE WHITE STRIP & POWER SUPPLY**

2-CHANNEL CONTROLLER
24+
CW
WW
230v Power
Power supply will vary depending on application
POWER DC+ DC-

NOTE FOR DIMMING/CONTROL OF TUNABLE WHITE STRIP

*This product requires a controller with 2 channels, it uses a common positive and both colours are controlled by PWM on the negative side. Requires 3-core cable for all installations, Cable diameter will depend on distance & amps required by the LED strip.

CUT

Cut LED ribbon strip at the cut marks outlined only.

Silicone needs to be applied to all ends to ensure the LED ribbon strip remains water-resistant.
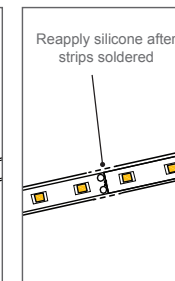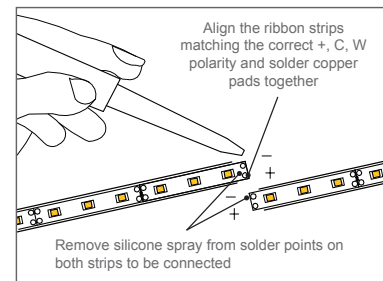

Cut marks
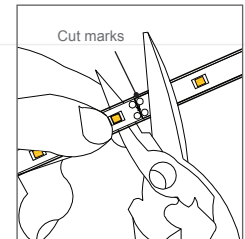
CABLE CONNECTION

To add a cable connection, cut and trim the wires to the appropriate length required. Carefully remove the silicone spray from ends of the LED ribbon strip to be connected (can be scratched off). Solder the wires to the soldering pads at the end of the LED ribbon strip ensuring the correct +, C, W polarity to form a continuous electrical circuit. **Reapply silicone.**
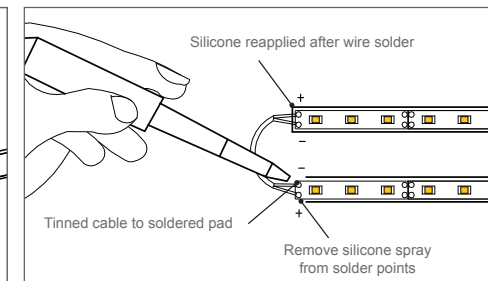

Tinned cable to soldered pad
Silicone reapplied after wire solder
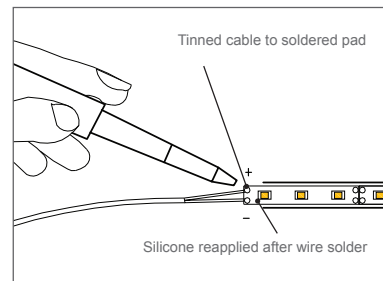
END TO END CONNECTION

To connect one length of ribbon strip to another, carefully remove the silicone spray from end of the LED ribbon strips (can be scratched off). Align LED ribbon strips end to end matching the correct +, C, W polarity between both lengths. Heat and solder the two lengths of ribbon together, using the soldering pads on both strips to form a continuous electrical circuit. **Reapply silicone.**

Align the ribbon strips matching the correct +, C, W polarity and solder copper pads together
Remove silicone spray from solder points on both strips to be connected

Reapply silicone after strips soldered

CORNER CONNECTION

To provide a corner connection, cut and trim the wires to the appropriate length for the corner. Carefully remove the silicone spray from ends of the LED ribbon strip to be connected (can be scratched off). Solder the wires to the soldering pads at end of the LED ribbon strip and to the beginning of the new ribbon strip ensuring the correct +, C, W polarity to form a continuous electrical circuit. **Reapply silicone.**

Silicone reapplied after wire solder
Tinned cable to soldered pad
Remove silicone spray from solder points

Please note drawings are an installation guide only. Each LED Ribbon Strip application may have variable factors. Cable size may need to be specified to limit the voltage drop throughout the circuit.