

ENCAPSULATED LED RIBBON | DUO



COLOUR	CODE	LUMENS
WARM WHITE 3000K	BL-LS-4375-30	≥450lm/m
NATURAL WHITE 4000K	BL-LS-4375-40	≥450lm/m

LED WATTS 7.2W/m

INPUT VOLTS 24V DC constant voltage

OPERATING TEMP. -20°C ~ +55°C

MAX. RUN PER POWER FEED 5m using one feed
10m using two feeds

DIMENSIONS W15 × H15mm
(W17mm for connectors)

CUTTING LENGTH 41.66mm

MINIMUM BEND RADIUS 60mm

BEND DIRECTION Vertical & horizontal bending

BEAM ANGLE 160°

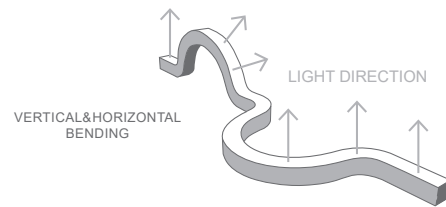
SOURCE LIFE 50,000 hours

WARRANTY 3 years

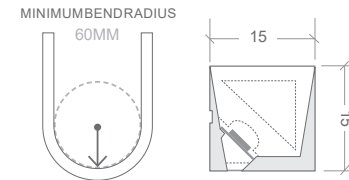
INGRESS PROTECTION Protection established by use of IP66 connections

CONTROL Dimmable by PWM signal

ENCAPSULATED LED RIBBON | DUO CAN BE CURVED AS SHOWN BELOW:



✗ DO NOT TWIST THE LIGHT OR BEND AGAINST THE LIGHT SURFACE



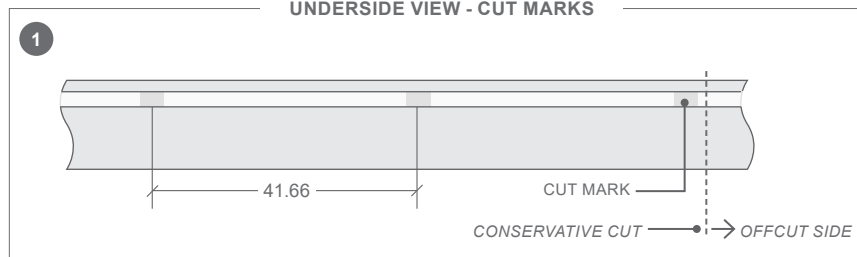
SAFETY NOTES

- Before making any cuts, installation, maintenance, or connection, be sure the mains power is disconnected.
- All connector joints must be connected correctly to achieve connector IP rating.
- Check the polarity of the connector before inserting the front connector and switching on the mains power.
- Cut and connect Encapsulated LED Ribbon correctly. Any incorrect operation can cause damage.
- Use a certified Bright Light 24V DC power supply.

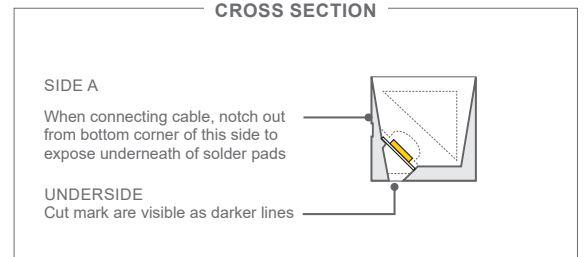
! BRIGHT LIGHT RECOMMENDS CONNECTIONS ARE MADE IN-HOUSE

CUTTING RIBBON & CONNECTING BOOT CONNECTORS

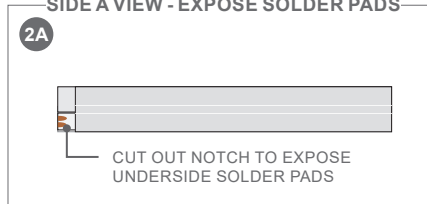
UNDERSIDE VIEW - CUT MARKS



CROSS SECTION



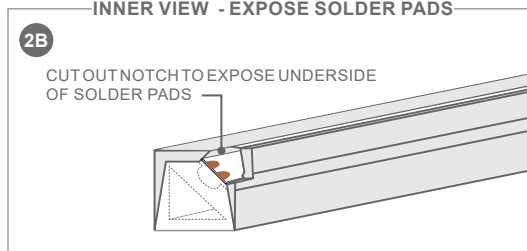
SIDE A VIEW - EXPOSE SOLDER PADS



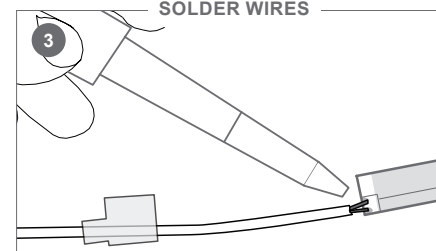
1. Cut Encapsulated LED Ribbon only at the cut lines shown on the underside of product. Be conservative to avoid over cutting. **See No. 5 for shortening ribbon.**
2. **To fit a connector:** cut out a notch (approx 3mm × 3mm) from the bottom corner of Side A of product to expose the underside PCB solder pads. Take care not to cut or damage the PCB and LEDs in this step.

3. Cut and trim the cable to the appropriate length and feed through connector. Solder the wires onto the solder pads of the Encapsulated LED Ribbon PCB ensuring the correct +/- polarity.
4. Insert liquid silicone into connector before fitting over connection. The silicone is required to complete the IP66 rating. *Failure to do this will result in warranty becoming void.*
5. **Shortening ribbon / fitting new end cap:** Cut Encapsulated LED Ribbon to length then fit end cap and silicone in place.

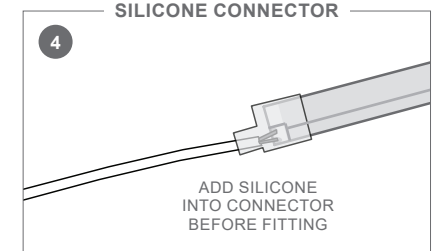
INNER VIEW - EXPOSE SOLDER PADS



SOLDER WIRES

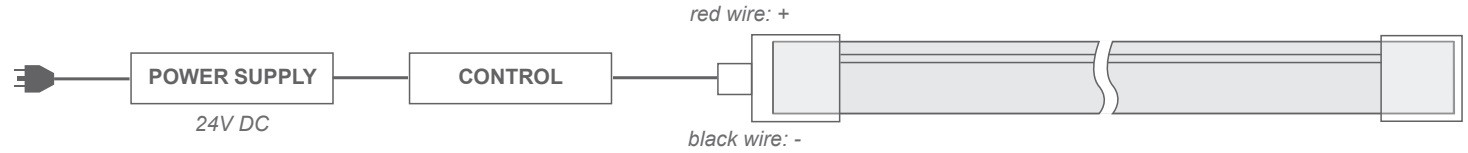


SILICONE CONNECTOR



WIRING DIAGRAM

- To minimise voltage drop and ensure consistent light output, position the power supply near to the power feed end of the LED Ribbon, and keep the line as short as possible
- Ensure your maximum run per power feed adheres to the guidelines; 5m when using a single connector, or 10m when using both connectors
- Ensure to add 20% buffer when selecting a power supply



MOUNTING PROFILE

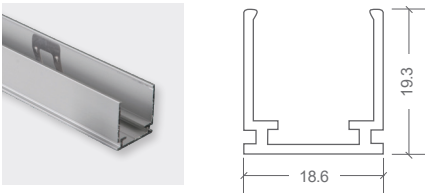
Aluminium mounting profile secures Duo straight for modern and clean line. Curve profile allow for the creation of unique shapes and designs.

IP66 CONNECTION ACCESSORIES

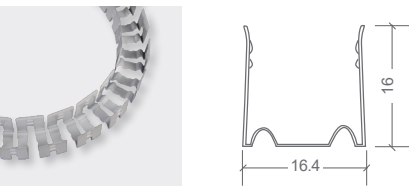
Encapsulated LED Ribbon requires the soldering of cable onto PCB solder pads and the use of silicone connectors to ensure an IP66 protective seal.

ACCESSORY	CODE
ALUMINIUM MOUNTING PROFILE 1000MM*	BL-LS-4382
CURVE PROFILE 1000MM (COMES IN 2 x 500MM PIECES)	BL-LS-4383

HOLE DIMENSIONS Ø2.5mm



ALUMINIUM MOUNTING PROFILE 1000MM



CURVE PROFILE 1000MM

ACCESSORY	CODE
END FEED CONNECTOR IP66	BL-LS-4380
END CAP IP66	BL-LS-4381
POWER FEED CABLE (1000MM)	BL-LS-4310



A
END FEED CONNECTOR



B
END CAP

