INSTALLATION GUIDE ARCHLINE™ · COB · DOTLESS

ArchLine UltraBright - TW Installation Guide

LCA-UB-TW-90-20-RL-24 · V1

INPUT	POWER	ROLL	BOARD WIDTH	CUT INTERVAL	RATING
24V DC · Class 2	6.7 W/ft · 110 W per roll	16.4 ft (5 m)	0.39 in (10 mm)	every 1.04 in (26.3 mm)	IP20 · IP67 option

01 Before You Start · Safety

- **Disconnect power** before making any connection, and reconnect only when every connection is finished.
- **Total load ≤ 80%** of the driver's and the controller's rated power. One full roll draws 110 W, so it needs a driver rated at least 138 W.
- **Class 2, 24V DC only.** Never connect the tape to line voltage.
- **Do not bend, twist or step on the tape.** Do not strike the light-emitting face with hard objects.
- **Keep conductors apart.** The wires must not touch each other: a touch is a short circuit.

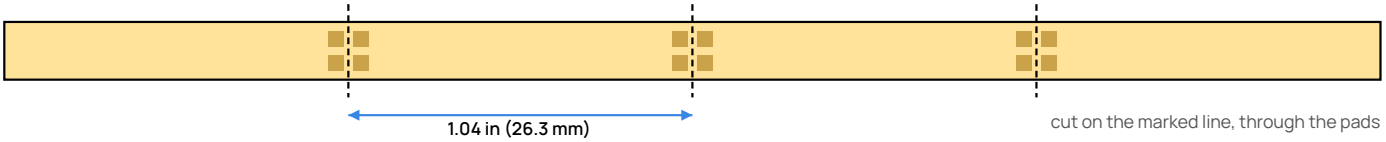
02 Prepare the Surface

- Clean the mounting surface. It must be clean, dry and flat before the adhesive goes on.
- Mount the tape in an aluminum channel (profile) with a diffuser where the tape can be seen.
- Board width: 0.39 in (10 mm). Choose a channel whose inner width takes the board.
- IP67 version: the board sits in a silicone sleeve 12 × 4.5 mm. Size the channel to the sleeve.

03 Handling Limits

- **Soldering:** iron at or below 300 °C (572 °F), no more than 3 seconds per joint.
- **Bending:** bending diameter greater than 3 cm (1.2 in) at any point. No sharp bends over a short distance.
- **Twisting:** no more than 720° (two full turns) per 0.5 m (1.6 ft) of tape.

04 Cut



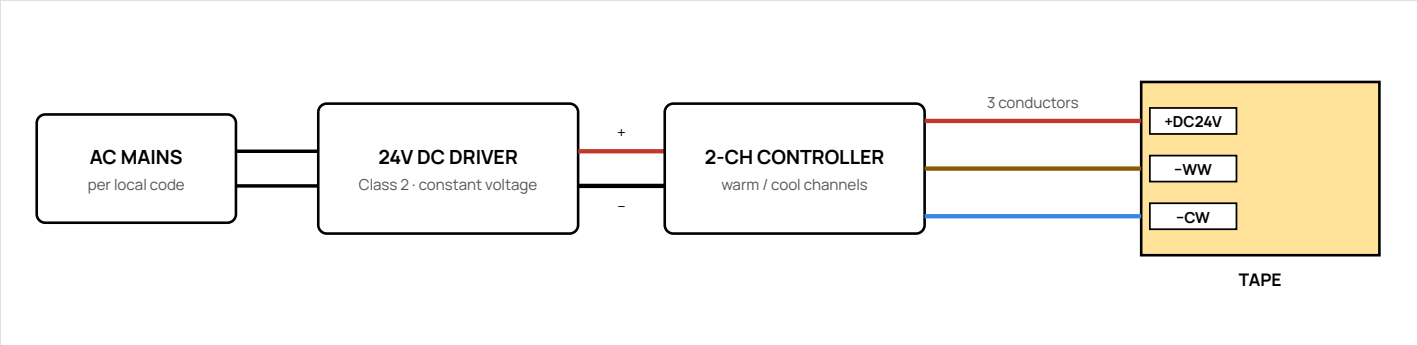
- Cut only on the marked cut lines, every 1.04 in (26.3 mm). A cut anywhere else disables that section.
- IP67 version: re-seal every cut end with an end cap so the run keeps its rating.

Values are nominal. Install to the applicable electrical code. LeonLite® Commercial reserves the right to change specifications without notice. Consult with the LeonLite Commercial team before installing.

05 Mount

- Dry-fit the run in the channel first and mark the feed point.
- Peel the 3M adhesive backing a little at a time and press the tape along the channel floor. Press on the board edges, not on the light-emitting face.

06 Wire



Tunable white · 3 conductors. +DC24V is common to both channels; –WW is the warm channel and –CW the cool channel. Connect –WW and –CW to the matching outputs of a two-channel controller.

07 Feed and Load

- Each roll is supplied with a lead at one end.
- LEONLITE 200 W driver: up to 1 full roll (55% load).

08 Wet Locations

- The IP67 version (order code -67) is for wet and exterior locations; the IP20 version is for interior dry locations only.

09 Power Up

- Check every connection against the diagram before power is applied.
- Restore power at the driver and check the run end to end.

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