

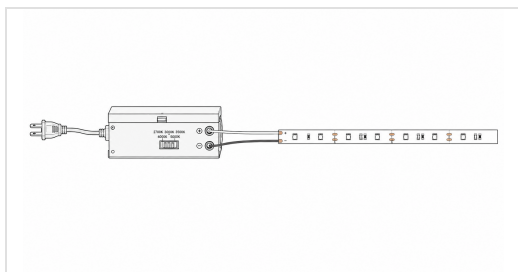
## PLANNING

LED Flexible Strip is highly versatile and well-suited for back, cove, task, display, accent, and cabinet lighting. Plan the run carefully before installation.

- Where is the nearest power source for the driver?
- How will the light be switched on / off?
- Is dimming required, and which protocol?
- What layout option works best for the space?
- How will wiring be routed to the strip?

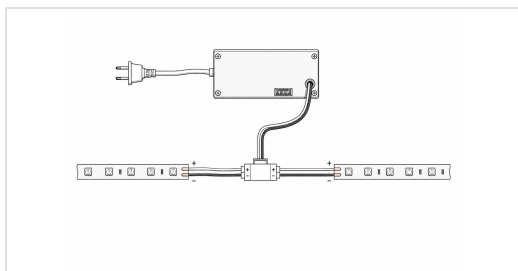
**VOLTAGE DROP** · Voltage drop is the normal loss along a low-voltage run; it grows with length, current, and undersized wire. Limit single runs accordingly.

## LAYOUT OPTIONS



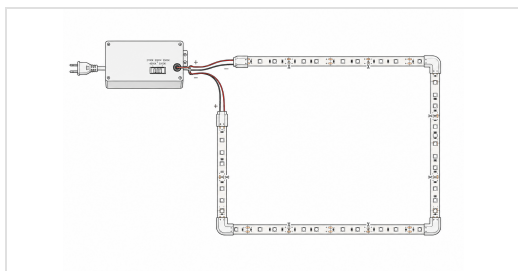
01

**Continuous single run.** Strip powered from one end. Strips farthest from the supply are more likely to exhibit voltage drop.



02

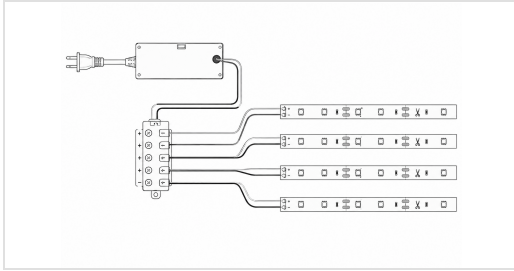
**Center-feed splice.** Strips powered from a splice at the middle. More consistent brightness across the run.



03

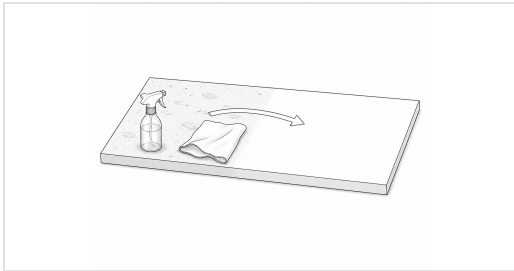
**Loop-back.** Single looped run with both legs returning to the driver. Consistent results — common for room perimeter and cove.

## LAYOUT OPTIONS (CONTINUED)

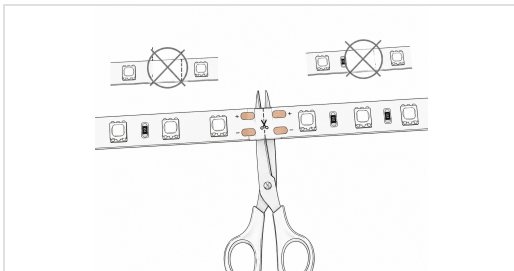
**01**

**Array.** Each strip individually powered. Total wattage must not exceed driver capacity.

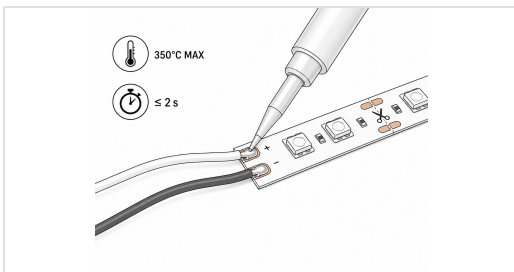
## INSTALLATION PROCEDURE (NON-WATERPROOF)

**01**

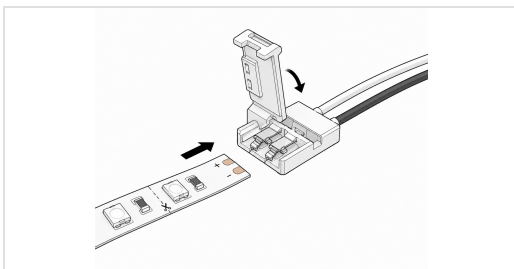
**Surface prep.** Clean surfaces — free of grease and dust.

**02**

**Cut only on the cutting marks.** Strips may only be cut in the middle of the printed cutting symbol.

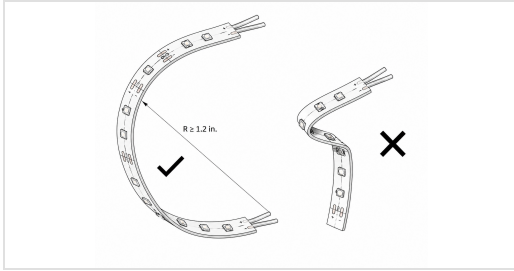
**03**

**Solder carefully.** Licensed electrician only — 350 °C max for ≤ 2 seconds, lead-free solder.

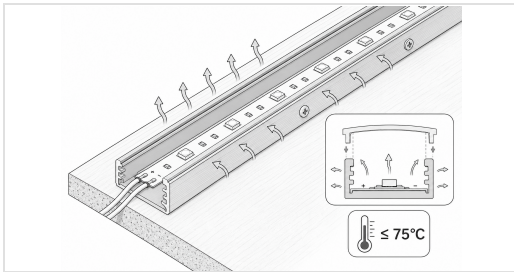
**04**

**Quick connectors.** Match pin count: 2-pin single color, 3-pin tunable, 4-pin RGB. RGBW (5-pin) not recommended on quick connectors.

## INSTALLATION PROCEDURE (NON-WATERPROOF) (CONTINUED)

**01**

**Don't over-bend.** Minimum bend radius 30 mm / 1.2". Do not bend horizontally; do not fold or crease.

**02**

**Heat dissipation.** On wood, plasterboard, plastic, glass — use aluminum profile. Keep TC point under 75 °C.

WATERPROOF / WET LOCATION

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Drop Fig. 5: Wet-location connectors

or [browse files](#)

**01**

Use male/female wet-location connectors to join cut sections in series.



Drop Fig. 6: Cut-point seal + end cap

or [browse files](#)

**02**

Seal every cut point with silicone adhesive (not included) and wet-location end caps.



Drop photo: Mount with the supplied clips and screws —...

or [browse files](#)

**03**

Mount with the supplied clips and screws — silicone adhesive may also be used.



Drop photo: Do not submerge, install in chemically treated water...

or [browse files](#)

**04**

Do not submerge, install in chemically treated water or salt water, or in direct sunlight.

SAFETY

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- Do not power the full reel before unspooling — overheat / ignition risk.
- Disconnect the driver before cutting or joining strips.
- Do not expose strips rated below IP54 to moisture or direct sunlight.
- Operating ambient -20 °C to +45 °C.

TROUBLESHOOTING

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| SYMPTOM                | LIKELY CAUSE & FIX                                                                      |
|------------------------|-----------------------------------------------------------------------------------------|
| Strip dark             | Verify driver power, polarity, voltage match. Check splice connections.                 |
| Only part of strip lit | Inspect connections downstream of the dark section. Cut out failed group and re-splice. |
| Blink on then off      | Driver undersized. Upgrade or shorten the strip.                                        |
| Far end dim            | Voltage drop. Shorten run, use thicker feed wires, or feed both ends.                   |

## DISCLOSURE

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This guide is provided for qualified installers and licensed electrical contractors. All electrical connections must comply with the National Electrical Code (NEC) and applicable local building and fire codes. Work should be performed only by personnel trained in low-voltage and line-voltage lighting installation.

DirectLED is not liable for injury, property damage, or product failure resulting from improper installation, modification, or use outside the specifications described in this document. Always disconnect power at the breaker before servicing any fixture.

Product specifications, dimensions, and accessory kits are subject to change without notice. Photography and diagrams in this guide are for reference only and may not reflect the exact finish, hardware, or revision of the product shipped. Where a discrepancy exists between this guide and the physical product, contact DirectLED technical support before proceeding.

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