

— GUIDE · END-OF-LINE RESISTOR

MaxiLED End-of-Line Resistor — *Installation.*

Every MaxiLINK strand must be terminated with an End-of-Line Resistor to close the DMX 512 signal loop. Without termination, fixtures display data disruption — flicker, delayed response, or wrong colours. Four steps: connect, disrupt-check, fine-tune, re-seal.



Install by a qualified electrician in accordance with all national and local electrical and construction codes. Failure to comply with the installation instructions can result in serious injury or death. Connection is NOT polarity-sensitive.

1 Connect the End-of-Line Resistor



Connect the End-of-Line Resistor Cable (**supplied separately**) to the end of the 48 V data line, immediately after the last fixture on the strand.

On the final fixture, an End-of-Line Connector **must** be present to allow the DMX data to communicate correctly. Without the ELR the strand will exhibit data disruption — random flicker or missed responses.

CONNECTION IS NOT POLARITY SENSITIVE

2 Data disruption check



Power up the system and confirm the DMX 512 signal is being transmitted. The end-of-line unit now needs setting.

Only perform this operation if the strand is flickering or not responding correctly. If the strand runs clean straight after Step 1, skip to Step 4.

Remove the black protective cap on the ELR to access the blue tuning adjuster.

3 Fine-tune the 512 DMX data



Using a **flat screwdriver**, turn the adjuster fully clockwise. The lights will begin to randomly flicker.

Turn the adjuster **anti-clockwise** until the strand responds correctly. Once the response is clean, continue to turn slowly until flicker just starts to reappear — then reverse a small increment clockwise until the strand is stable again.

The adjuster is now correctly set for this strand's cable length and fixture count.

ADJUSTER TUNING IS PER-STRAND · RETUNE IF THE STRAND LENGTH IS ALTERED

4 Re-seal & check



Once the strand is tuned and running clean, replace the End-of-Line Resistor black cap. **Ensure a tight fit for a waterproof IP68 seal.**

Refer to the strand installation instructions for power-supply options (single strand and multi-strand topologies).

SUITABLE FOR WET LOCATIONS · IP68 SEALED WHEN CAP IS FULLY SEATED

ELR QUICK REFERENCE

REQUIRED PER STRAND	1 ELR
POSITION	After last fixture on the strand
POLARITY	Not sensitive
RATING	IP68 (cap seated)
TOOL REQUIRED	Flat screwdriver

TROUBLESHOOTING

RANDOM FLICKER	Retune adjuster · Step 3
NO RESPONSE AT ALL	Check DMX source + polarity of PSU
COLOUR DRIFT	Confirm ELR present & tuned
MOISTURE INSIDE CAP	Reseat cap · check gasket
SUPPORT	sales@maxiledlighting.com