MaxiLED Lighting

MAXILED LIGHTING

MAXILED MARKER EFFECT · IN-GRADE MARKER

Installation *Guide*

Step-by-step installation and MaxiLINK wiring for the MaxiLED MARKER Effect. This product must be installed by a qualified electrician in accordance with all national and local electrical and construction codes.

MRK-EFF · INSTALLATION FIGURES

4 STEPS · NTS

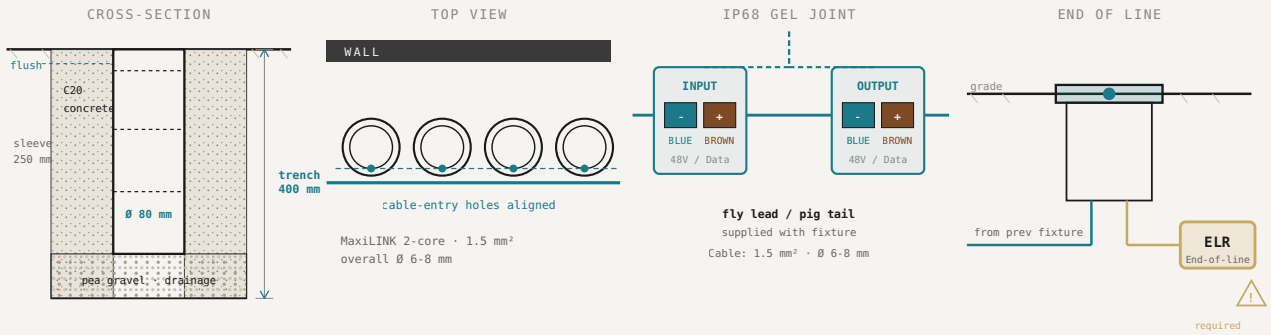


Figure 1
Groundwork · sleeve flush
C20 concrete + pea gravel
30-min drainage test

Figure 2
Sleeve orientation
Holes aligned to wall
uniform after final install

Figure 3
IP68 gel connectors
BLUE − · BROWN +
submersible joint required

Figure 4
Final fitting
ELR on last unit
terminates DMX bus

01 **Prepare ground work.** Excavate a trench **minimum 400 mm deep**. Fill the lower half with **pea gravel** for drainage. Always prepare **300 mm of drainage gravel** before setting the sleeve. Position the recessed sleeve (Ø 80 mm × 150 or 250 mm) so its top edge is flush with the finished grade, then pour C20 concrete around it. Before proceeding, perform a **30-minute drainage test** — fill the sleeve with water equivalent to its volume; if it does not fully drain within 30 minutes, add a further drainage solution before continuing.

02 **Sleeve orientation.** Ensure the sleeve cable-entry holes are all **aligned to the wall** or building line so the finished fixtures read uniformly after installation. Route the 2-core MaxiLINK cable up through the sleeve grommet — cable specification: **1.5 mm² conductors, overall Ø 6-8 mm**. Do not seal the sleeve to the fixture — the fixture must remain removable for service.

03 **Make connections using IP68 gel connectors.** The MaxiMARKER Effect is supplied from the factory with a **fly lead / pig tail** pre-terminated. Splice input and output cables to the fixture pig-tail using **IP68 submersible gel connectors** (supplied by others, inline with local authority regulations). Observe polarity: **BLUE − / BROWN +**. Follow the gel-connector instruction sheet for terminal-block wiring and gel-cover locking.

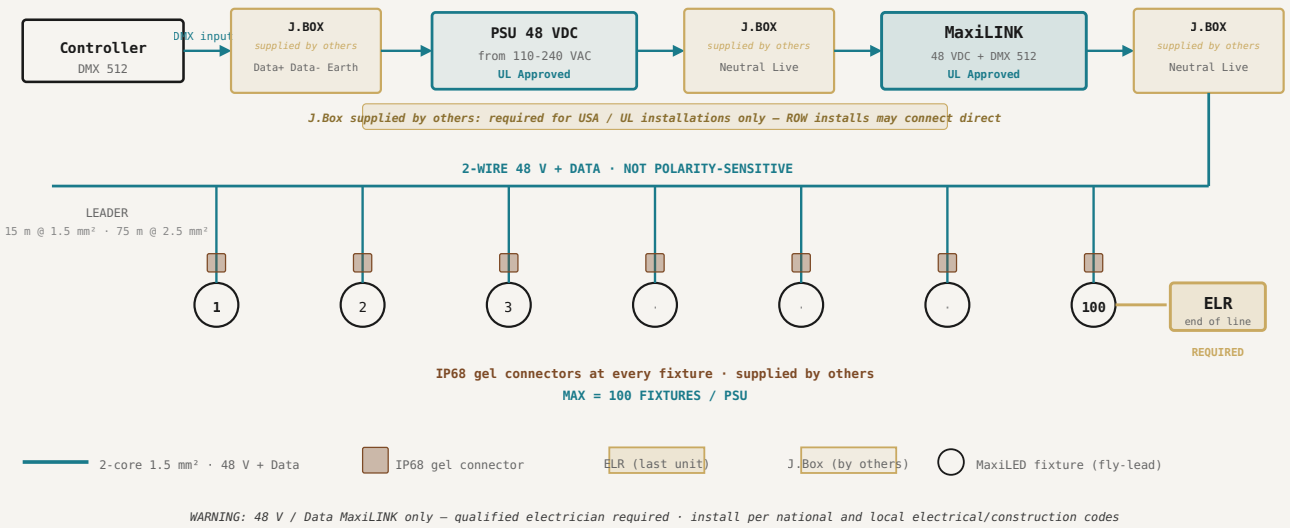
04 **Final fitting · terminate with ELR.** Drop the fixture into the sleeve so the flange seats flush on grade. On the **last** fixture of each MaxiLINK strand (max 100 per PSU), wire the End-of-Line Resistor (**ELR**, supplied separately) to the 48 V / Data output — without the ELR the lamps show data disruption. **Qualified electrician required** — install per national and local electrical / construction codes.

> **Note.** Installation must be carried out by a qualified electrician per local electrical and construction codes.

WIRING · MAXILINK · STRAND PLANNING

Wiring and strand planning.

MRK-EFF · MAXILINK 2-CORE DISTRIBUTION



WARNING: 48 V / Data MaxiLINK only — qualified electrician required · install per national and local electrical/construction codes

System architecture per manual. DMX Controller feeds the first junction box (supplied by others) with Data+ / Data- / Earth. A **48 VDC PSU (UL Approved)** feeds the second junction box (Neutral / Live) into the **MaxiLINK UL Approved** distribution unit, which delivers 2-wire 48 V + DMX 512 (data not polarity-sensitive) out through a third junction box to the fixture strand. **Junction boxes are required for USA / UL installations only** — ROW installs may connect direct. **Leader:** max 15 m on 1.5 mm² · 75 m on 2.5 mm² from MaxiLINK to the first fixture. **Strand:** up to **100 markers** per PSU on 1.5 mm² cable at 2.4 W per unit (max run 100 m first-to-last). Each MaxiMARKER Effect ships with a factory **fly lead / pig tail**; connect input and output cables using **IP68 gel connection boxes** (supplied by others) with polarity **BLUE − / BROWN +**. **ELR (End-of-Line Resistor)** mandatory on the last fixture — without it the strand shows data disruption. **Qualified electrician required** — 48 V / Data MaxiLINK only, install per national and local electrical/construction codes.