



MAXILED LANTERN · RGBW · RGBWW

MaxiLED LANTERN / RGBW · RGBWW

Tapered polycarbonate lantern head for architectural catenary strings — exceptionally long RGBW-addressable strands with rugged injection-molded outer housing, heavy-gauge wiring and dependable high-power LEDs. IP68 sealed for permanent outdoor install; MaxiLINK 2-core wiring simplifies DMX to a static-install workflow.

- IP68
- IK07
- 48 VDC
- DMX 512 · MAXILINK
- 5-YEAR WARRANTY



WATTAGE	LUMENS	MAX STRAND	OPERATING TEMP
2.35 W	25 lm	100 units	-25 to +50 °C

SPECIFICATIONS • OVERVIEW • KEY FEATURES

QUICK SPECIFICATIONS

PRODUCT CODE	LTN-RGBW
POWER INPUT	48 VDC MaxiLINK • from 240/110 V transformer
WATTAGE PER UNIT	2.35 W
LED CURRENT	100 mA
LED SOURCE	Multi-chip ® XQE
COLOR SYSTEM	DMX 512 RGBW (6000K) • RGBWW (3000K)
LUMENS (RGBW FROSTED)	25 lm
LUMEN MAINTENANCE (85%)	70,000 hrs
MAX FIXTURES PER STRAND	100 units
MAX STRAND LENGTH	100 m (328 ft) on 1.5 mm ²
FIXTURE SPACING (TYPICAL)	5 m • custom on order
DROP CABLE LENGTHS	1 m • 1.5 m • 2 m • custom
DROP CABLE	Heavy-gauge 2-core • injection-moulded
LEADER (1.5 MM ²)	15 m (49 ft)
LEADER (2.5 MM ²)	75 m (246 ft)
REFRESH RATE	DMX 44 Hz
IP RATING	IP68
IMPACT PROTECTION	IK07
OPERATING TEMP	-25 to +50 °C
THERMAL CUT-OUT	70 °C automatic

OVERVIEW

The MaxiLANTERN is a tapered lantern-form catenary lamp – the workhorse for long outdoor RGBW strands where each fixture becomes a controllable pixel on the same 2-core MaxiLINK backbone. Injection-molded UV-stable polycarbonate outer, heavy-gauge internal wiring and dependable XQE LEDs are engineered for permanent architectural installation. Available in DMX RGBW (6000K white channel) or RGBWW (3000K white channel).

KEY FEATURES

- 01

Tapered lantern silhouette
The signature MaxiLANTERN profile: 47.1 × 110 mm injection-molded polycarbonate lantern head. Reads as classical festoon at rest, becomes a controllable pixel when driven.
- 02

Patented 2-wire DMX-over-power
MaxiLINK runs 48 VDC + DMX 512 on the same 2-core cable – leader up to 15 m on 1.5 mm² or 75 m on 2.5 mm². Simplifies DMX to a static-install workflow.
- 03

RGBW or RGBWW selectable
Order as DMX RGBW (6000K white channel) for cool architectural applications or RGBWW (3000K) for hospitality warmth. Same fitting, same MaxiLINK backbone.
- 04

Cable colours to spec
Black cable standard from stock. White or RAL-matched cable available to order (minimum quantities apply).

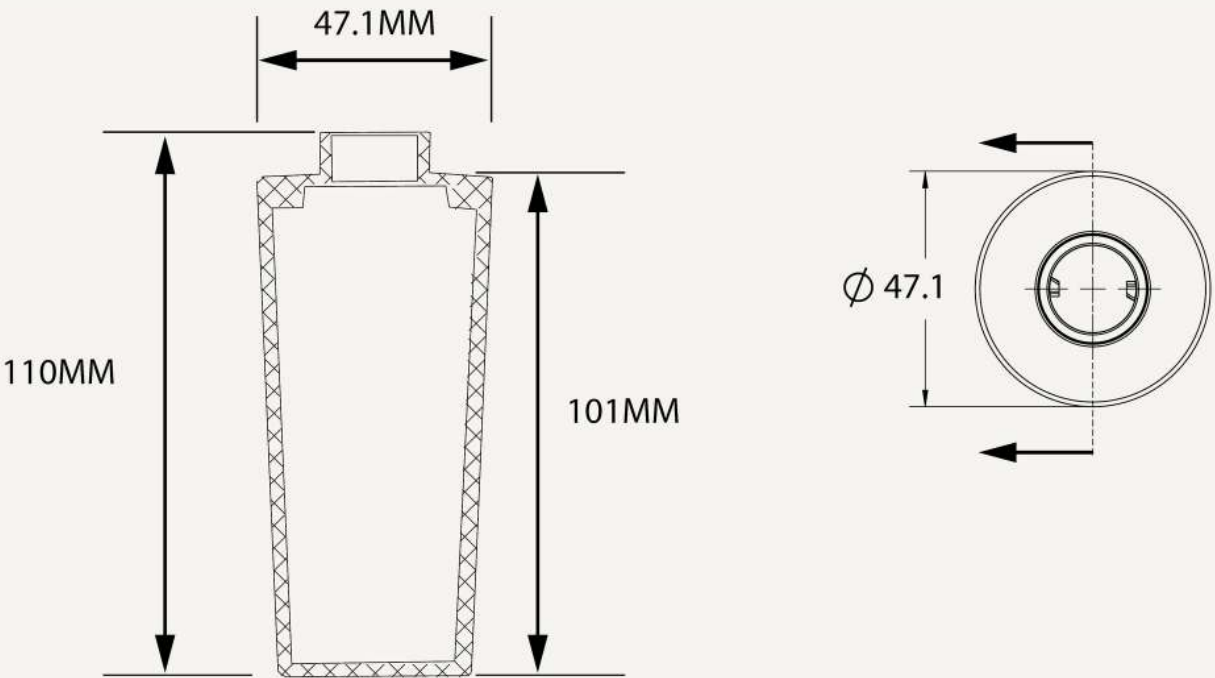
LANTERN MATERIAL	UV-stabilised polycarbonate
CABLE COLOURS	Black (std) · White / RAL (min. order)
MAXILINK DIAGNOSTICS	Over-current · thermal · polarity · data OK · power OK
CERTIFICATIONS	UL · UKCA · CE
INSTALLATION	Qualified electrician required
WARRANTY	5 years

— DIMENSIONS · PHYSICAL ENVELOPE

Dimensions and physical envelope.

LTN-RGBW · SCALED DRAWING

MM (INCHES) · NTS



BODY Ø	TOTAL HEIGHT	LANTERN HEIGHT	WEIGHT
47.1 mm (1.85")	110 mm (4.33")	101 mm (3.98")	80 g (2.82 oz)

Note. Drawings are not to scale. Confirm mounting cutout and clearance against the physical fixture before finalising fabrication drawings.

CERTIFICATIONS



— INSTALLATION · STEP-BY-STEP

Installation procedure.

LTN-RGBW · INSTALLATION FIGURES

4 STEPS · NTS



Figure 1
Fix base plate

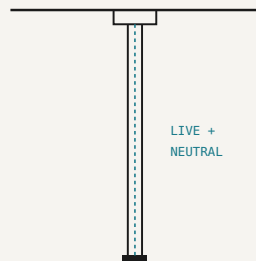


Figure 2
Route cable · insert rod

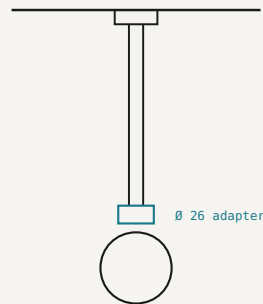


Figure 3
Attach head · secure collar

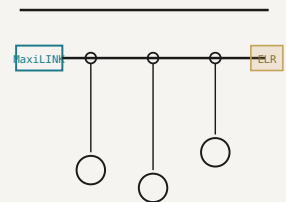


Figure 4
MaxiLINK strand · ELR

01

Fix the base plate. Locate the mounting position on the fixing surface (ceiling, soffit, 3-phase EUTRAC track adaptor, or catenary rail). Secure the base plate with two supplied stainless-steel screws sized to the substrate. Confirm pull-out load for the fixture assembly weight.

02

Insert the hollow support rod. Slide the rod into the base-plate collar and thread the 2-core MaxiLINK cable (48 VDC + DMX 512) inside the rod. Route both LIVE + NEUTRAL conductors from the base junction down through the hollow tube — no exposed conductors, no penetration of the rod wall.

— INSTALLATION • CONTINUED

Installation procedure.

LTN-RGBW • STEPS CONTINUED

STEPS 03 – 04

03

Attach the globe/lantern head. Fit the Ø 26 mm adapter collar onto the bottom of the rod. Screw the polycarbonate head onto the adapter until the O-ring seals against the collar face. Confirm the head is finger-tight plus a quarter turn — do not over-torque.

04

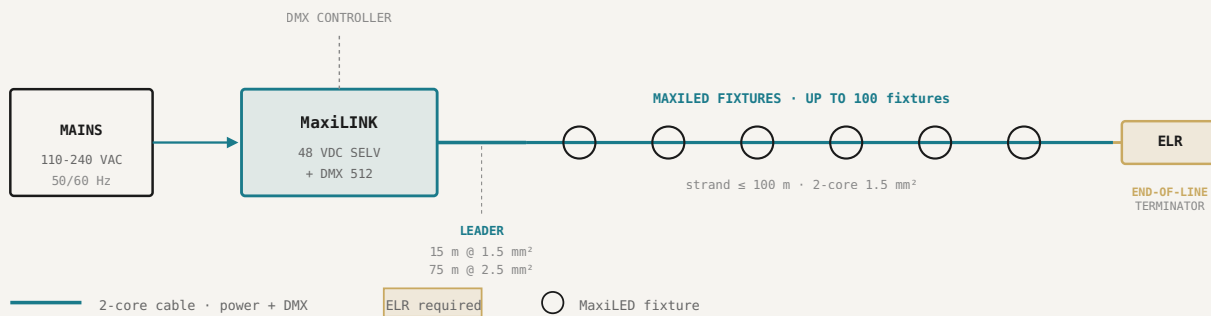
Connect MaxiLINK • terminate with ELR. Connect the 2-core to the MaxiLINK 48 VDC + DMX 512 supply — polarity-independent, DMX 512 addressed automatically. Install an **ELR (End-of-Line Resistor)** on the last fixture of each strand to terminate the DMX bus. **Qualified electrician required.**

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

WIRING · MAXILINK · STRAND PLANNING

Wiring and strand planning.

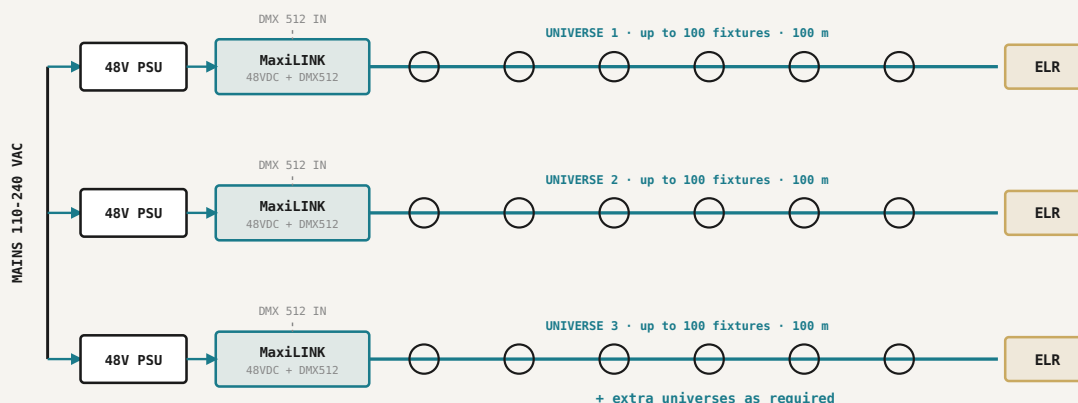
LTN-RGBW · MAXILINK 2-CORE DISTRIBUTION



USA / UL installations: insert Junction Boxes (supplied by others) between MAINS/PSU and MaxiLINK per code – ROW installs may connect direct

System architecture. A single 240/110 V → 48 VDC MaxiLINK transformer feeds a 2-core cable that carries both 48 VDC power and DMX 512 signal on the same conductors. Each lantern taps the strand as a controllable pixel. **Leader:** max 15 m on 1.5 mm² · 75 m on 2.5 mm² from MaxiLINK output to the first fixture. **Strand:** up to 100 fixtures per 100 m on 1.5 mm² cable, typical fixture-to-fixture spacing 5 m (customisable on order). Standard drop cables 1 m, 1.5 m or 2 m – custom drops made-to-order. **Junction boxes** between MAINS/PSU and MaxiLINK are **required for USA / UL installations** only – ROW installs may connect direct. **ELR (End-of-Line Resistor)** mandatory on the last fixture of every DMX strand – without it the strand shows data disruption. The MaxiLINK box provides diagnostics for over-current, thermal, polarity-reversed, data-healthy and power-healthy conditions. **Qualified electrician required** – install per local electrical and construction codes.

LTN-RGBW · MULTIPLE DMX UNIVERSES · ONE MAXILINK + PSU EACH



For layouts beyond a single universe (one universe = up to 100 fixtures), add **one MaxiLINK + 48 V PSU** per additional **universe**, each fed from a common mains supply and terminated with its own **ELR** on the last fixture.

— ORDER CODES • BUILD THE SKU

Order codes — specify by segment.

LTN-RGBW CONFIGURATOR

LEFT → RIGHT • CONCATENATE WITH HYPHENS

01	02	03	04
PRODUCT	LED	CABLE COLOR	DROP LENGTH
MaxiLED LANTERN LTN	DMX RGBW 6000K RGBW	Black (standard) BLK	500 mm 500
	DMX RGBWW 3000K RGBWW	White (min. order) WHT	1 m 1000
		RAL (min. order) RAL	1.5 m 1500
			2 m 2000
			Custom CUS

ORDER-CODE EXAMPLES

EX 1 LTN-RGBW-BLK-1000

MaxiLANTERN, RGBW 6000K, black cable, 1 m drop

EX 2 LTN-RGBWW-WHT-1500

MaxiLANTERN, RGBWW 3000K, white cable, 1.5 m drop

Note. Cable drop lengths and fixture-to-fixture spacings are made-to-order (factory-fitted). Provide the required drop and strand spacing on order confirmation. Minimum order applies for white or RAL cable. ELR required on the last fixture of each DMX strand.