

PROJECT	FIRM	ORDER #	TYPE	QTY
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PL-FLX-200 is a top-bend LED flex neon featuring a plane profile that supports both surface-mount and flush-mount installation. The silicon extrusion sheath delivers **uniform, dot-free output** in continuous runs of up to 5 m (16.4 ft).

Available in fixed white and RGBW variants — including a pixel-controllable model driven over standard DMX. On-site cuttable at marked intervals and re-terminable with glue-sealed end caps, the product is designed for clean field finishing and customised lengths.

Compared to traditional fragile glass or easily-yellowing PVC sheathing, the silicon extrusion process offers higher production capacity, environmentally-friendly characteristics, soft-bend flexibility, strong impact resistance, and high weather resistance — all with the same precise outer geometry guaranteed by the die-casting process.

Features

- Plane profile — surface-mount or flush-mount installation.
- Top-bend orientation with a wide 50 mm luminous face — bold, bright lines of light.
- Uniform, dot-free, smooth output in continuous runs up to 5 m (16.4 ft).
- Addressable, pixel-controllable RGBW variant driven by DMX signal.
- On-field cuttable and re-assemblable, with end caps sealed by gluing.
- Silicon extrusion technology — high-efficiency production, soft bend flexibility, strong impact resistance, high weather resistance.

At a glance

<p>⚡ Power 24 V DC</p>	<p>◆ Protection IP67</p>	<p>☀ Beam 120° beam angle</p>	<p>🌡 Temperature -20 °C to +45 °C</p>	<p>◆ CRI / Cert. CRI 80 (4000 K) CE compliant</p>	<p>★ Warranty 5 years, limited</p>
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Variant matrix

Photometric and electrical performance by variant. Luminous flux measured at CRI 80, 4000 K, ±10 %.

PL-FLX-200-*	LED type	Wattage	LED qty	Pixel segment	Cut length	Luminous flux
Static CCT	SMD 2835	14 W/m	120 LED/m	—	Free cutting	560 lm/m
Pixel RGBW	SMD 5050	18 W/m	72 LED/m	12 pixel/m	100 mm	336 lm/m
Static RGBW	SMD 5050	14 W/m	72 LED/m	—	83.3 mm	285 lm/m

Specifications

Series	LED Flex Neon — Top Bend
Product code	PL-FLX-200-* (see Configure your product on page 4)
LED type	SMD 2835 (Static CCT) · SMD 5050 (Static RGBW / Pixel RGBW)
Operating voltage	24 V DC
Wattage	14 W/m (Static CCT / Static RGBW) · 18 W/m (Pixel RGBW)
LED density	120 LED/m (Static CCT) · 72 LED/m (RGBW)
CCT options	Static: 2700 K · 3000 K · 3500 K · 4000 K · 5000 K · 6000 K · RGBW: quad-chip with CCT select
Cuttable	Yes — see Cut length per variant in the matrix above. Static CCT is free-cutting.
Control	24 V DC driver · external DMX / DALI / 0-10 V driver · pixel variant addressable via DMX
Pixel density	12 pixel/m (Pixel RGBW — J / K / L variants)
CRI	CRI 80 (at 4000 K)
Beam angle	120°
Maximum run length	Uniform, dot-free appearance up to 5 m (16.4 ft)
Cross-section / roll	50 mm (W) × 25 mm (H) · standard roll 5 m, ~2.5 kg
Sheath material	Silicon extrusion (replaces glass and PVC alternatives)
Bend / flexibility	Soft bend, top-bend orientation
IP rating	IP67 — shallow immersion
Operating temperature	-20 °C to +45 °C
Mounting	Surface mount or flush mount
Lumen maintenance	50,000 hours
Compliance	BIS · CE
Warranty	5 years, limited

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Dimensions

Top view



Top View

Side view



Side View

Cross-section



Cross-section is constant along the full length of the strip and across all variants — 50 mm (W) × 25 mm (H). The wide top-bend profile gives a broad, even luminous face.

Installation

Cutting and termination

- Static CCT models are free-cutting. RGBW variants must be cut on the marked cut points — see the per-variant cut length in the Variant matrix.
- Re-cap the cut end with the supplied end cap and seal with the recommended silicon adhesive.
- Allow the gluing process to fully cure before installation (per adhesive manufacturer's instructions).

Mounting

- Surface mount — fix directly to a flat substrate using the matching aluminium mounting channel (sold separately) or compatible clips.
- Flush mount — recess the strip into the supplied or specified channel; the plane profile sits level with the surface.
- Minimum bend radius and maximum cable run distance vary by variant — refer to the user guide on the product page.

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Configure your product

Build your model code in the form PL-FLX-200-*, replacing * with the option letter that matches the desired variant.

Option	Variant	Option	Variant
A	Static CCT — 2700 K	G	Static RGBW — 3000 K
B	Static CCT — 3000 K	H	Static RGBW — 4000 K
C	Static CCT — 3500 K	I	Static RGBW — 6500 K
D	Static CCT — 4000 K	J	Pixel RGBW — 3000 K
E	Static CCT — 5000 K	K	Pixel RGBW — 4000 K
F	Static CCT — 6000 K	L	Pixel RGBW — 6000 K
Z	Custom specification		

Example product codes

PL-FLX-200-C LED Flex Neon — Static CCT 3500 K

PL-FLX-200-K LED Flex Neon — Pixel RGBW 4000 K

PL-FLX-200-Z Custom specification — Z indicates special order

Pixel control & DMX

Pixel RGBW (J, K, L) variants are addressable via DMX. Each pixel segment is independently controllable; cut points coincide with pixel boundaries so the strip can be shortened without losing addressability.

Pixel pitch by variant

Variant	Pixel pitch	Cut length
J / K / L — Pixel RGBW	12 pixel/m	100 mm

Control notes

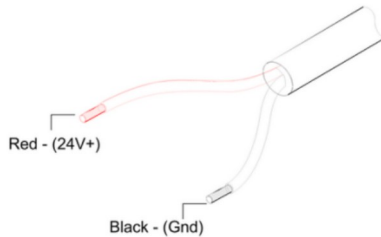
- DMX signal is required for the pixel-controllable variants.
- Static (A-I) variants accept simple 24 V DC switching or compatible LED dimmers.
- Plan run lengths so that each cut falls on a marked pixel boundary.
- Detailed channel maps and addressing examples are provided in the user guide on the product page.

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Connection diagrams

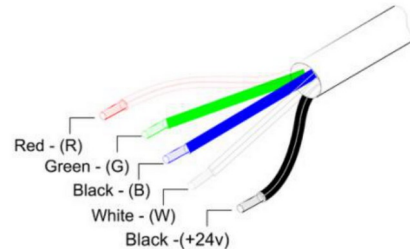
Conductor functions by variant. Match polarity exactly — reversed polarity will damage the LEDs.

Static CCT



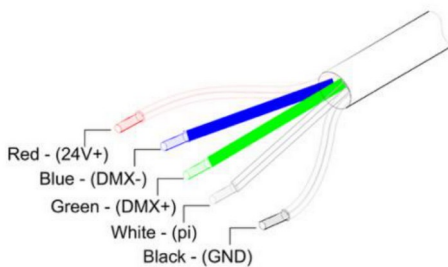
- Red — +24 V DC · Black — Ground (0 V)
- Use a 24 V DC constant-voltage driver of the correct wattage.

Static RGBW



- Red — R · Green — G · Blue — B · White — W · Black — +24 V DC common
- Use a common-anode RGBW controller (24 V positive shared on the black conductor).

Pixel RGBW



- Red — +24 V DC · Green — DMX + · Blue — DMX - · White — Pixel / signal · Black — Ground (GND)

DMX wiring notes

- Run DMX +/- as a twisted pair, kept short between controller and first fixture.
- Terminate the end of the DMX line with a 120 Ω resistor if recommended by your controller.
- DMX channel map — Static CCT: 1 channel (dimmer, 0–255). Static RGBW: 4 channels (R, G, B, CCT-white).