6x12mm RGB LED Neon Flex

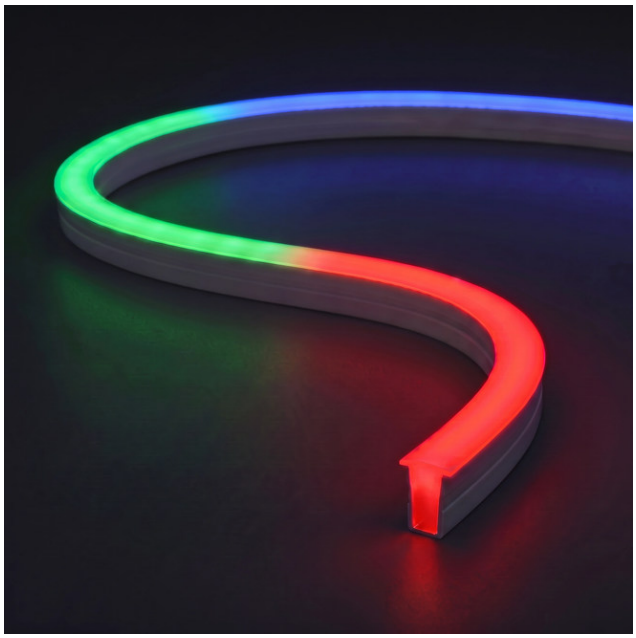
RGB colour changing | Horizontal / Side Bend | 48V DC | IP67

BEND	BODY	CUT INTERVAL	MAXIMUM RUN	SUPPLY
Horizontal	**6x12mm**	**100mm**	**15 Metre**	**48V DC**

SPECIFICATIONS

Property	Specification
Colour	RGB colour changing
Supply voltage	48V DC
Body cross-section	6x12mm
Cut interval	100mm (10cm)
Maximum single-end run	15 Metre
Bend direction	Horizontal / Side Bend
Min. bend diameter	120mm (60mm radius)
Beam angle	120°
Body construction	Solid silicone extrusion
Housing colour	White
Body protection	IP67
Rated power	10.6 W/m
LEDs per metre	120
Lumens per metre	152.15 lm/m (RGB mix)
LED package	SMD5050
Control	PWM RGB; non-addressable
Connection	Four-core: V+, R, G, B
Dimming	Compatible RGB controller
Warranty	4 Years
Order length	Custom cut / made to order

Single-end runs up to 15 Metre. Cut only at the printed 100mm marks. RGB mixed white has no dedicated white LED channel.

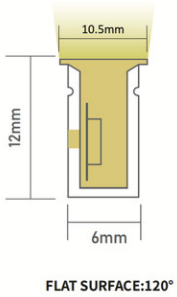


Solid silicone construction

Spot-free light from a compact silicone body, designed for horizontal curves in architectural and outdoor installations.

RGB colour illustration; the whole run changes colour together.

COMPACT DIMENSIONS



6mm body width

12mm body height

T-shaped emitting top
120° beam
Horizontal bend only

Made to measure: custom cut and made to order within the permitted cut marks and maximum run.

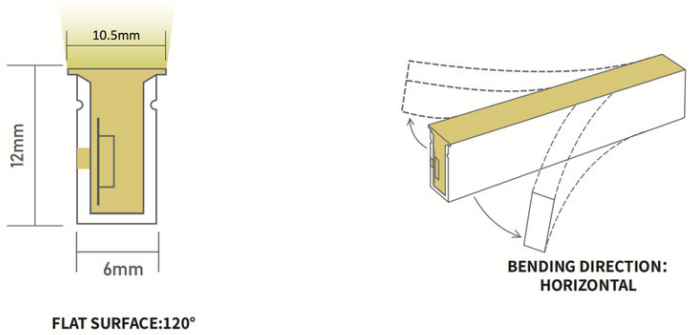
Performance & selection

6x12mm | RGB colour changing | 48V DC | 100mm cut | 15 Metre single-end feed

LIGHT OUTPUT & CONTROL

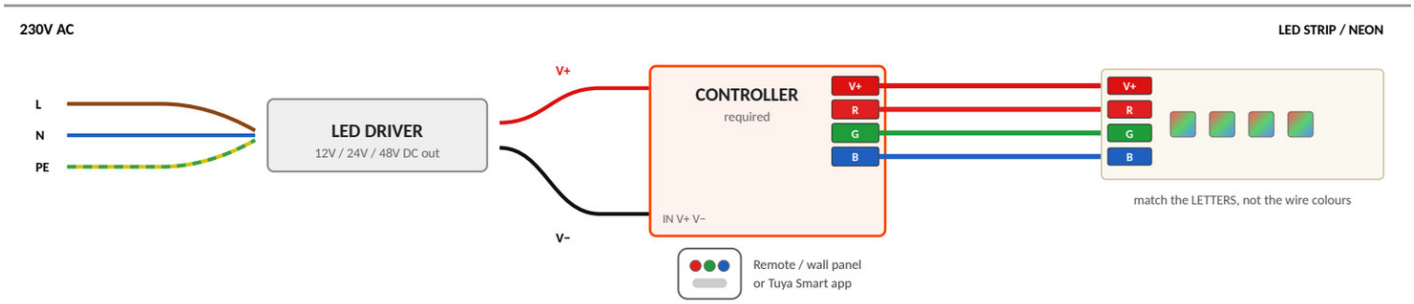
152.15 lm/m	120	10.6 W/m	PWM RGB
RGB mixed output	LEDs per metre	Rated power	Whole run together

BODY DIMENSIONS, HOUSING & BEAM



6x12mm body cross-section | Horizontal bend | 120° beam. Fitting and channel dimensions are separate.

ELECTRICAL SELECTION & RGB WIRING



Use 48V DC for this model. Check polarity and match the terminal labels V+, R, G and B; wire colours can vary. The controller sits between the power supply and the neon.

Rated load = 10.6W/m x length. A 15 Metre run is 159W before driver allowance. Nominal current is 0.221A/m (calculated). Select a 48V constant-voltage supply and RGB controller with adequate total and per-channel capacity; follow their load allowances. Check cable voltage drop.

Never connect directly to mains. Keep independent power-supply outputs separate. Lifetime and operating temperature: to be confirmed for this RGB model.

Connection accessories

IP67 fitting options | Four-core RGB connection | Confirm the matching termination system

Select the cable exit for your custom-cut length. Drawing callouts apply to the illustrated fittings, not the neon body or conductor gauge. Confirm RGB compatibility and sealing requirements with the order.

Front cable exit

Bottom cable exit

Left cable exit

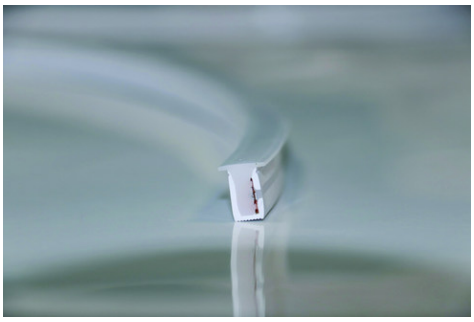
Right cable exit

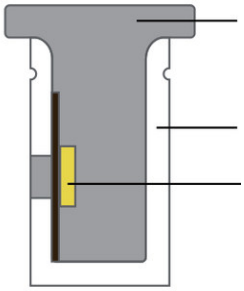
Closed end cap

Four-core RGB
V+ common positive, R, G and B.

Confirm the fitting, exit direction and sealing kit for the order.

SILICONE CROSS-SECTION





Body construction
Light-diffusing silicone surface
Solid silicone outer layer
Internal LED source

Body and connector protection are separate. Seal all exposed ends and joints.

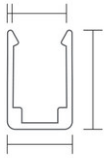
20cm four-core cable is included. Optional 1-5 Metre leads are available. Cable size must suit the installed load and distance.

Body protection is IP67. Connector markings alone do not establish the rating of the finished assembly. Seal all joints and cut ends using the matching approved kit and its instructions.

Mounting & essential guidance

Fit the correct 6x12mm channel and support the light progressively along its length.

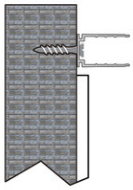
OPTIONAL CLIPS & CHANNEL



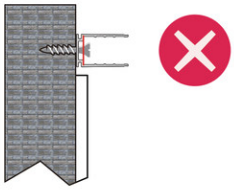
Illustrated channel
8mm outside / 6.2mm clear width
13.6mm height / 0.9mm wall

Optional clips / channel. These are accessory dimensions, separate from the neon body. Confirm fit before installation.

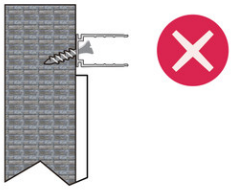
INSTALLATION METHODS & FIXING POSITIONS



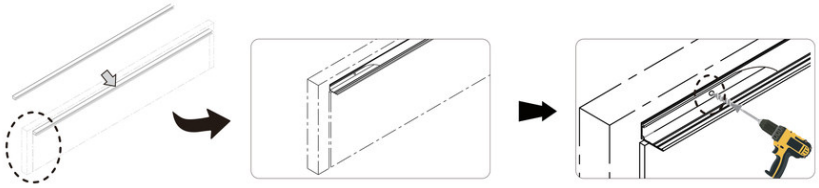
Flush / recessed



Proud head: wrong

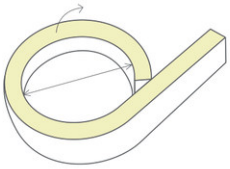


Angled screw: wrong



Secure the channel first. Deburr and remove swarf; keep screw heads flush or recessed. Insert progressively by hand. Keep connectors outside the channel and support cables.

BENDING & ESSENTIAL CAUTIONS



120mm minimum bending diameter (60mm radius). Horizontal bend only. Keep the first and last full 100mm cut units straight. Never twist, kink, crush or pull the light. Fully unroll before power.

Illustrated fitting and wiring instructions: Install48-0612-RGB.pdf