

# 6x12mm LED Neon Flex

Warm White 2700K | Horizontal / Side Bend | 24V DC | IP67

|                   |               |                     |                    |               |
|-------------------|---------------|---------------------|--------------------|---------------|
| <b>BEND</b>       | <b>BODY</b>   | <b>CUT INTERVAL</b> | <b>MAXIMUM RUN</b> | <b>SUPPLY</b> |
| <b>Horizontal</b> | <b>6x12mm</b> | <b>50mm</b>         | <b>20 Metre</b>    | <b>24V DC</b> |

## SPECIFICATIONS

| Property               | Specification              |
|------------------------|----------------------------|
| Colour                 | Warm White 2700K           |
| Supply voltage         | 24V DC                     |
| Body cross-section     | 6x12mm                     |
| Cut interval           | 50mm (5cm)                 |
| Maximum continuous run | 20 Metre                   |
| Bend direction         | Horizontal / Side Bend     |
| Min. bending diameter  | 120mm                      |
| Beam angle             | 120°                       |
| Body construction      | Solid silicone extrusion   |
| Housing colour         | White                      |
| Body protection        | IP67                       |
| Rated power            | 9.4W/m                     |
| LEDs per metre         | 120                        |
| Lumens per metre       | 377 lm/m                   |
| CRI Ra                 | >90                        |
| LED package type       | SMD2835                    |
| Average lifetime       | 50,000 hours               |
| Operating temperature  | -30°C to 50°C              |
| Warranty               | 4 Years                    |
| Order length           | Custom cut / made to order |

Continuous runs up to 20 metre with one-side power. Cut only at the 50mm marked positions.

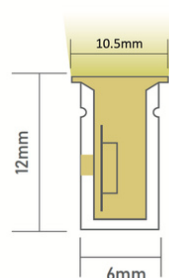


## Solid silicone construction

A continuous, diffused line of light in a compact 6x12mm body. The solid silicone extrusion supports smooth horizontal curves for architectural and outdoor lighting.

Construction illustration; light colour is indicative.

## COMPACT DIMENSIONS



FLAT SURFACE:120°

**6mm body width**

**12mm body height**

**10.5mm emitting face**

Flat light-emitting face

120° beam angle

Horizontal bend only

**Made to measure and custom cut to your specific requirements, within the permitted cut marks and maximum run.**

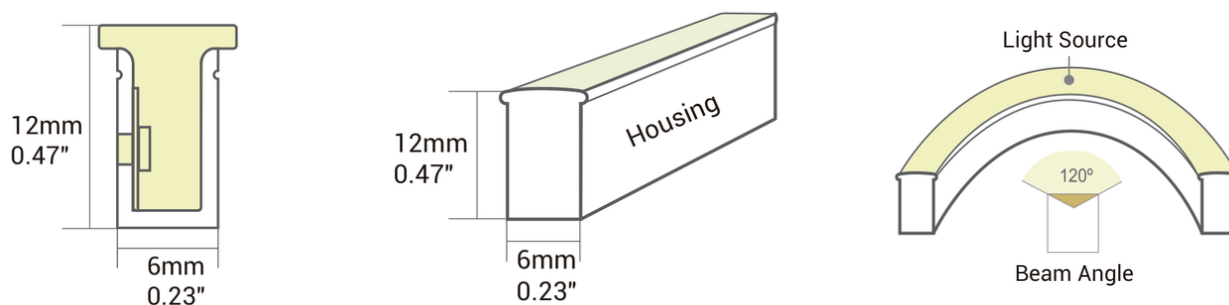
## Performance & selection

Warm White 2700K | 24V DC | 50mm cut interval | 20 metre maximum run

### LIGHT OUTPUT & COLOUR

|                                     |                              |                         |                              |
|-------------------------------------|------------------------------|-------------------------|------------------------------|
| <b>377 lm/m</b><br>Lumens per metre | <b>120</b><br>LEDs per metre | <b>&gt;90</b><br>CRI Ra | <b>9.4W/m</b><br>Rated power |
|-------------------------------------|------------------------------|-------------------------|------------------------------|

### BODY DIMENSIONS, HOUSING & BEAM



6mm body width · 12mm body height · 10.5mm emitting face · 120° beam. Fitting dimensions are separate.

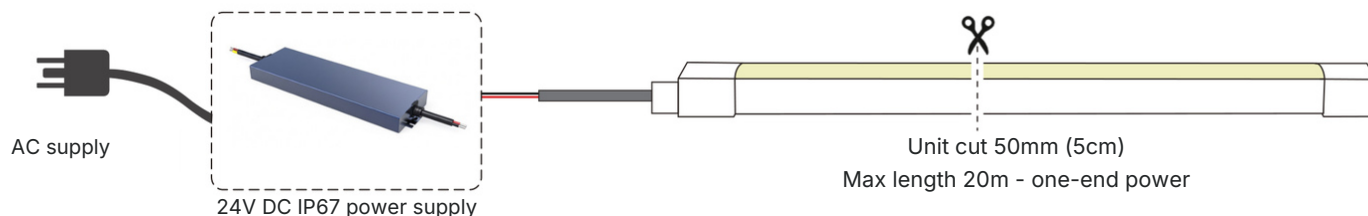
### WEBSITE SKUS

NF2700K24V612-IP67-5CM

DEK27K-612-IP67-20M

MX27K-612-IP67-20M

### ELECTRICAL SELECTION & ONE-END CONNECTION



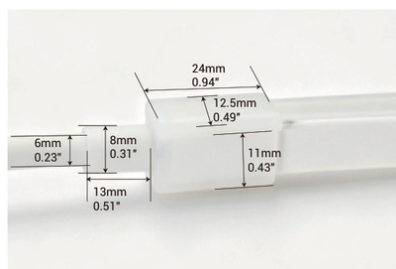
Nominal current: 391.7mA/m, calculated from rated power / supply voltage. Load for the full 20 metre run: 188W before power-supply allowance. Match the supply voltage and allow headroom according to the driver specification.

Check polarity, cable voltage drop and driver capacity. Do not join independent power-supply outputs together.

## Connection accessories

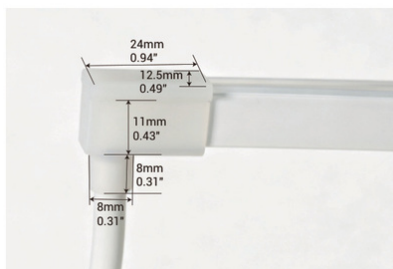
IP67 connector options | Dimensioned fitting examples and silicone construction

Choose the cable exit for your custom-cut length. Dimensions below are separate drawing callouts in millimetres; they do not form one nominal connector size.



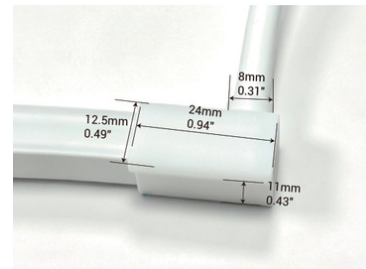
**Front cable exit**

24 / 12.5 / 11 / 8 / 6 / 13mm



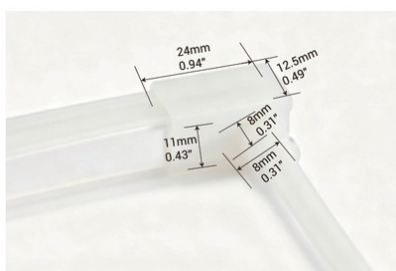
**Bottom cable exit**

24 / 12.5 / 11mm; two 8mm callouts



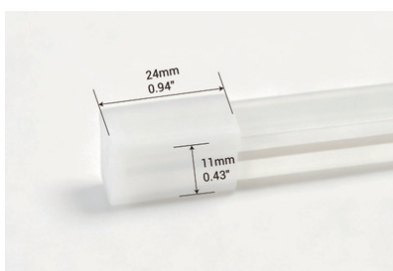
**Left cable exit**

24 / 12.5 / 11 / 8mm



**Right cable exit**

24 / 12.5 / 11mm; two 8mm callouts



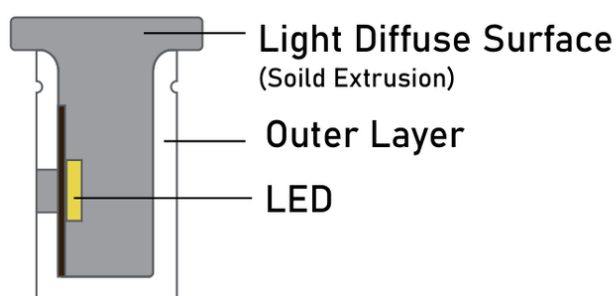
**Closed end cap**

24mm length / 11mm height

### Connection notes

The closed cap drawing does not specify a width. Match every fitting and sealing kit to the actual neon. Use two conductors: positive (+) and negative (-).

## SILICONE CROSS-SECTION



Solid silicone extrusion surrounds the LED. The source cross-section identifies the light-diffusing surface, outer layer and LED.

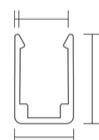
Example lead: 200mm, with a separate 6mm callout. This does not specify conductor gauge, capacity or the included lead length.

Seal every joint correctly. An IP68 connection requires a verified IP68 connector system, assembled and sealed to its specified instructions. The neon body remains IP67.

# Mounting & essential guidance

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

## OPTIONAL CLIPS & CHANNEL



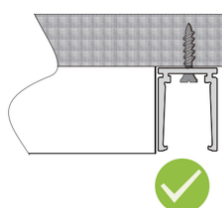
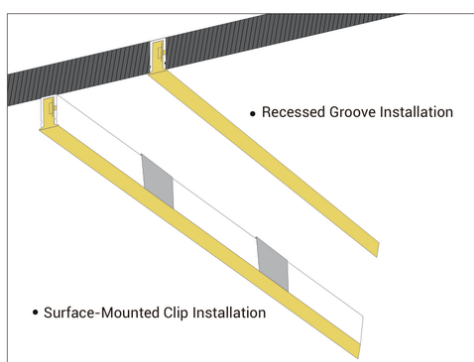
### Illustrated channel

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

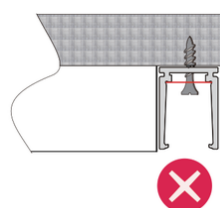
20mm clip / 1m channel examples

Mounting dimensions are separate from the neon. Select fixings for the substrate; example screw callouts are 6mm and 25mm.

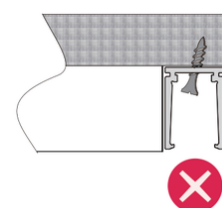
## INSTALLATION METHODS & FIXING POSITIONS



Flush / recessed

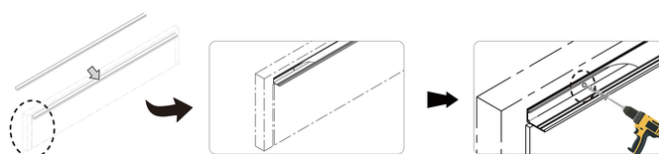


Proud head: wrong



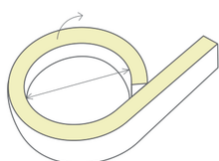
Angled screw: wrong

Recessed groove or surface-mounted clips. Keep screw heads straight and fully clear of the neon.



Secure and deburr the channel. Remove swarf, then insert progressively by hand. Do not force connectors into the channel.

## BENDING & ESSENTIAL CAUTIONS



**120mm minimum bending diameter.** Horizontal bend only. Keep the first and last full 50mm cut units straight. Never twist, kink, crush or pull the light.

Isolate power before work. Use a suitable 24V DC constant-voltage supply, correct polarity and sealed joints. Cut only at 50mm marks. Stay within the -30°C to 50°C range.

Fully unroll before power; do not operate in the packaging coil. The manufacturer states that an energised coil must never exceed 30 minutes; normal operation must be fully unrolled.

Full safety, illustrated steps and troubleshooting: [Install24-0612-C50.pdf](#)