

# 8x16mm LED Neon Flex

Warm White 3000K | 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>8x16mm</b> | <b>10mm</b>         | <b>15 Metre</b>    | <b>24V DC</b> |

## SPECIFICATIONS

| Property               | Specification              |
|------------------------|----------------------------|
| Colour                 | Warm White 3000K           |
| Supply voltage         | 24V DC                     |
| Body cross-section     | 8x16mm                     |
| Cut interval           | 10mm (1cm)                 |
| Maximum continuous run | 15 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            | 7.3W/m                     |
| LEDs per metre         | 120                        |
| Lumens per metre       | 375 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 |

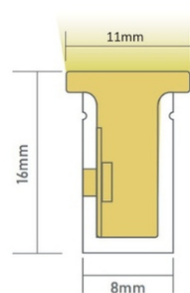


## Solid silicone construction

A continuous, diffused line of light in a compact 8x16mm body. The solid silicone extrusion supports smooth horizontal curves for architectural and outdoor lighting.

Construction illustration; light colour is indicative.

## COMPACT DIMENSIONS



**8mm body width**  
**16mm body height**  
**11mm emitting face**

Flat light-emitting face  
120° beam angle  
Horizontal bend only

FLAT SURFACE:120°

Continuous runs up to 15 metre with one-side power. Cut only at the 10mm marked positions.

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

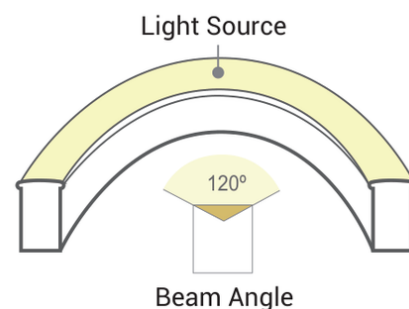
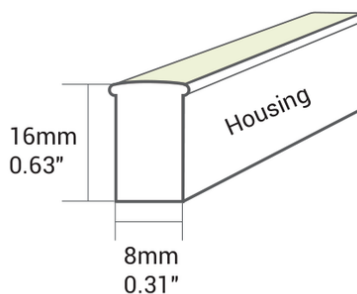
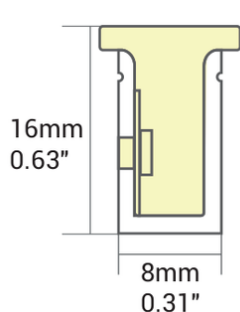
## Performance & selection

Warm White 3000K | 24V DC | 10mm cut interval | 15 metre maximum run

### LIGHT OUTPUT & COLOUR

|                                     |                              |                         |                              |
|-------------------------------------|------------------------------|-------------------------|------------------------------|
| <b>375 lm/m</b><br>Lumens per metre | <b>120</b><br>LEDs per metre | <b>&gt;90</b><br>CRI Ra | <b>7.3W/m</b><br>Rated power |
|-------------------------------------|------------------------------|-------------------------|------------------------------|

### BODY DIMENSIONS, HOUSING & BEAM



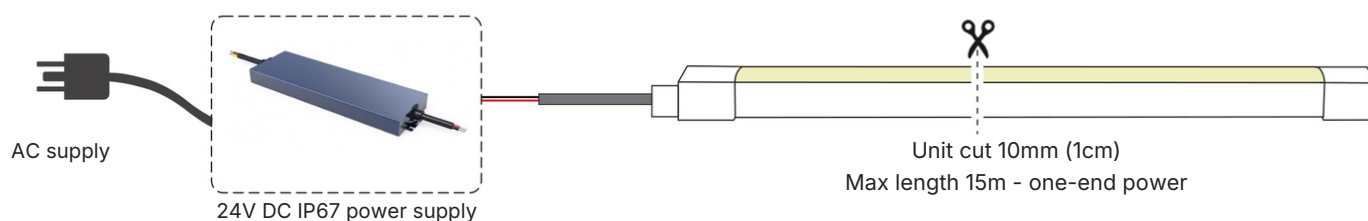
8mm body width · 16mm body height · 11mm emitting face · 120° beam. Fitting dimensions are separate.

### WEBSITE SKUS

OUTSL3000K24V816-IP67-1CM

NF3000K24V816-IP67-1CM

### ELECTRICAL SELECTION & ONE-END CONNECTION



Nominal current: 304.2mA/m, calculated from rated power / supply voltage. Load for the full 15 metre run: 109.5W before power-supply allowance. Match the supply voltage and allow headroom according to the driver specification.

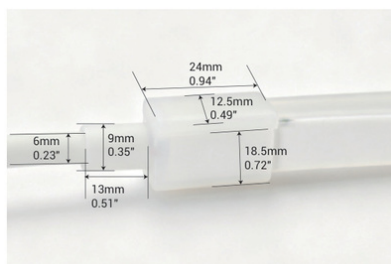
Check polarity, cable voltage drop and driver capacity. Do not join independent power-supply outputs together.



## Connection accessories

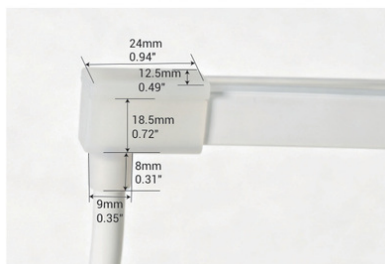
IP67 connector options | Dimensioned fitting examples and silicone construction

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.



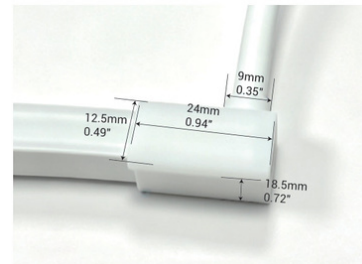
**Front cable exit**

24 / 12.5 / 18.5 / 9 / 6 / 13mm



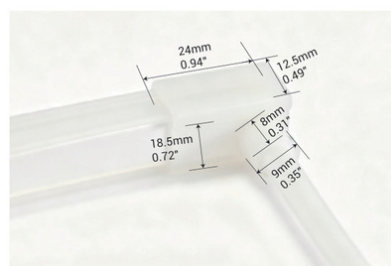
**Bottom cable exit**

24 / 12.5 / 18.5 / 8 / 9mm



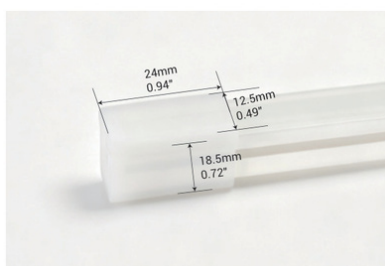
**Left cable exit**

24 / 12.5 / 18.5 / 9mm



**Right cable exit**

24 / 12.5 / 18.5 / 8 / 9mm



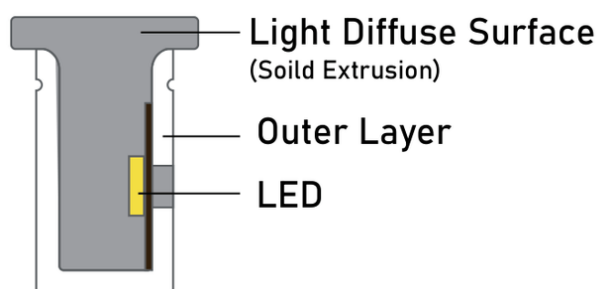
**Closed end cap**

24 / 12.5 / 18.5mm

### Connection notes

Fitting body: 24mm long, 12.5mm wide and 18.5mm high. Neck callouts are separate. 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.

# Profiles & mounting guidance

8x16mm profile options from UK LED Lights | Product images and SKUs link to the website.

## MATCHING PROFILES - ORDER SEPARATELY



**Straight aluminium**

NFPROFILE-816  
1 metre channel



**Tile-in aluminium**

NFPROFILE-T0816-1M  
NFPROFILE-T0816-2M



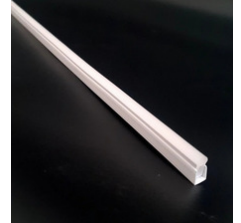
**Bendable tile-in**

NFPROFILE-BT0816-1M  
NFPROFILE-BT0816-2M



**Bendable aluminium**

NFPROFILE-B0816  
1 metre channel

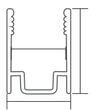


**PVC channel**

ALNFPROFILE816  
1 metre channel

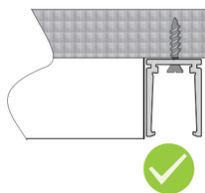
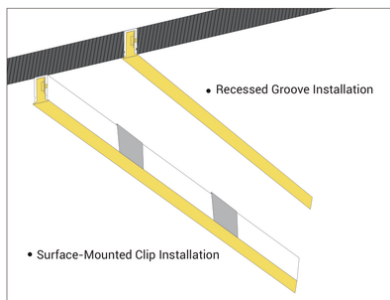
Tile-in SKUs ending -1M and -2M identify 1 metre and 2 metre lengths. Match the channel to the neon and planned bend. IP67 applies to the sealed neon, not the bare profile.

## ILLUSTRATED CHANNEL DIMENSIONS

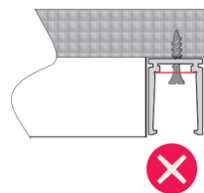


**Supplier channel example:** 10.5mm outside width / 9mm clear opening / 14mm height. These are accessory dimensions, not the neon body or every website profile. Check the chosen product drawing and fit. Example screw callouts: 6mm and 25mm; select fixings for the substrate.

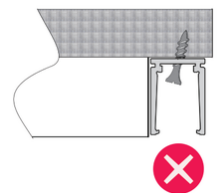
## INSTALLATION METHODS & FIXING POSITIONS



Flush / recessed



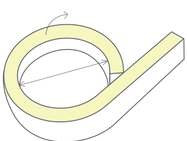
Proud head: wrong



Angled screw: wrong

Secure and deburr the channel; remove swarf. Keep screws straight, flush or recessed. Insert the neon progressively by hand, with connectors clear of the channel.

## BENDING & ESSENTIAL CAUTIONS



**120mm minimum bending diameter.** Horizontal bend only. Keep the first and last full 10mm cut units straight. Do not twist, kink, crush or pull. Isolate power before work; use 24V DC, correct polarity, sealed joints and marked 10mm cuts. Operate within -30°C to 50°C.

Fully unroll before power. Never operate in the packaging coil; the manufacturer warns against exceeding 30 minutes energised in a coil.

Full illustrated mounting sequence, cautions and troubleshooting: [Install24-0816-C10.pdf](#)