

# 8x16mm LED Neon Flex

Warm White 3000K | Horizontal / Side Bend | 24V DC | IP67

|            |        |              |             |        |
|------------|--------|--------------|-------------|--------|
| BEND       | BODY   | CUT INTERVAL | MAXIMUM RUN | SUPPLY |
| Horizontal | 8x16mm | 10mm         | 15 Metre    | 24V DC |

## 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 |

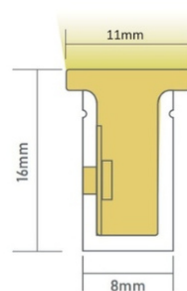


## Solid silicone construction

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

**375 lm/m**

Lumens per metre

**120**

LEDs per metre

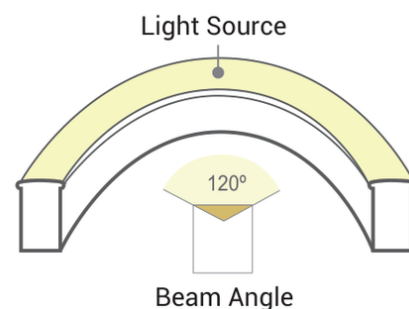
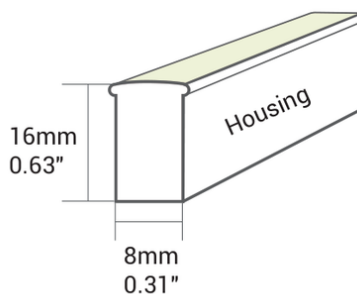
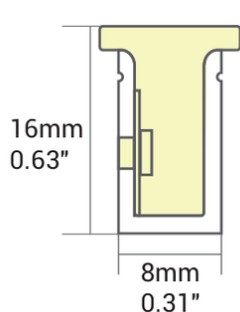
**>90**

CRI Ra

**7.3W/m**

Rated power

### BODY DIMENSIONS, HOUSING & BEAM



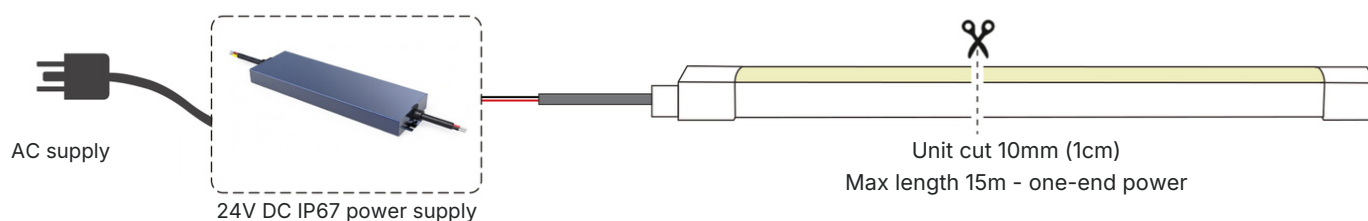
8mm body width · 16mm body height · 11mm emitting face · 120° beam. Fitting dimensions are separate.

### WEBSITE SKUS

NF3000K24V816-IP67-1CM

OUTSL3000K24V816-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.

**WARNING:** Use only 24V DC, matching the light. Never connect directly to 220-240V AC mains; incorrect voltage can damage the light.

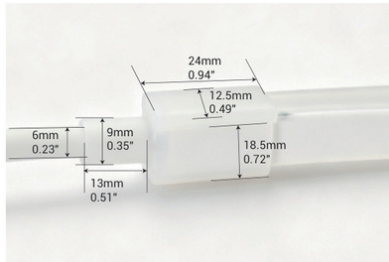
**Incorrect-power damage:** Damage caused by incorrect voltage or direct mains connection is not covered by warranty where ATOM LED is not at fault. ATOM LED Lighting Ltd accepts no liability for loss or damage caused by such connection where it is not at fault. This does not exclude liability for our negligence or breach of statutory duty, or affect your statutory rights.



## Connection accessories

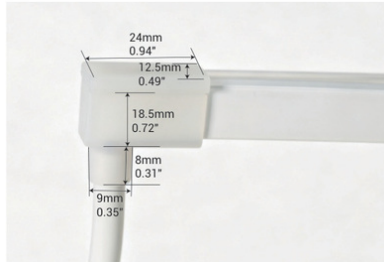
IP67 connector options | Dimensioned fitting examples and silicone construction

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.



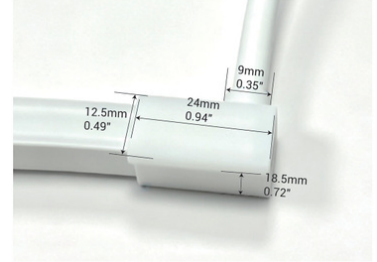
**Front cable exit**

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



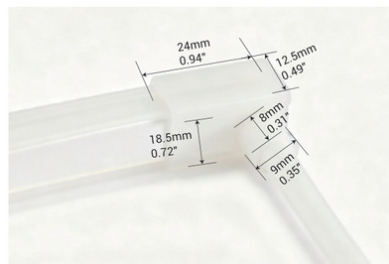
**Bottom cable exit**

24 / 12.5 / 18.5 / 8 / 9mm



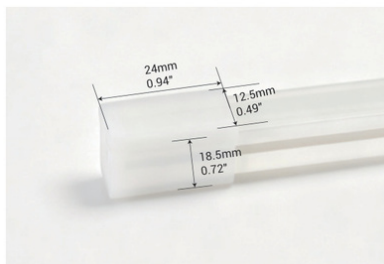
**Left cable exit**

24 / 12.5 / 18.5 / 9mm



**Right cable exit**

24 / 12.5 / 18.5 / 8 / 9mm



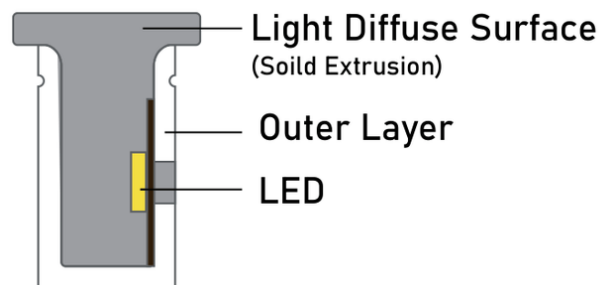
**Closed end cap**

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

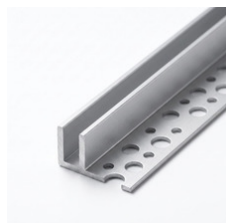
8x16mm profile options from ATOM LED | Product images and SKUs link to the website.

## 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

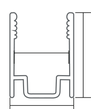


**PVC channel**

ALNFPROFILE816  
1 metre channel

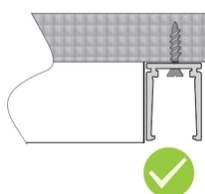
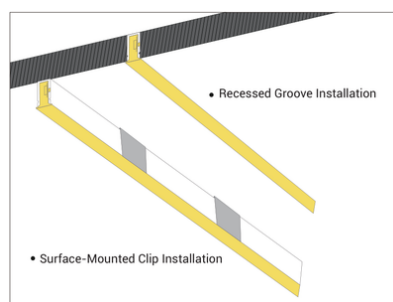
Tile-in SKUs ending -1M and -2M identify 1 metre and 2 metre lengths. Match the channel to the neon and planned bend. IP67 applies to the sealed neon, not the bare profile.

## ILLUSTRATED CHANNEL DIMENSIONS

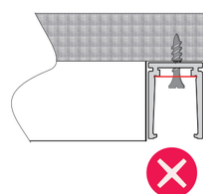


**Supplier channel example:** 10.5mm outside width / 9mm clear opening / 14mm height. These are accessory dimensions, not the neon body or every website profile. Check the chosen product drawing and fit. Example screw callouts: 6mm and 25mm; select fixings for the substrate.

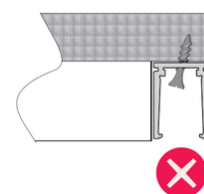
## INSTALLATION METHODS & FIXING POSITIONS



Flush / recessed



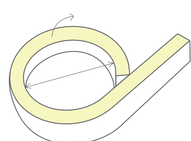
Proud head: wrong



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](#)