

8x16mm LED Neon Flex

Warm White 3000K | Horizontal / Side Bend | 48V DC | IP67

BEND	BODY	CUT INTERVAL	MAXIMUM RUN	SUPPLY
Horizontal	8x16mm	100mm	40 Metre	48V DC

SPECIFICATIONS

Property	Specification
Colour	Warm White 3000K
Supply voltage	48V DC
Body cross-section	8x16mm
Cut interval	100mm (10cm)
Maximum continuous run	40 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	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

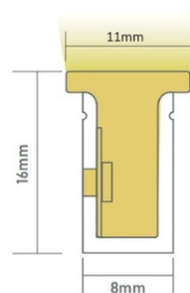


Solid silicone construction

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°

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

Continuous runs up to 40 metre with one-side power. Cut only at the 100mm marked positions.

Performance & selection

Warm White 3000K | 48V DC | 100mm cut interval | 40 metre maximum run

LIGHT OUTPUT & COLOUR

375 lm/m

Lumens per metre

120

LEDs per metre

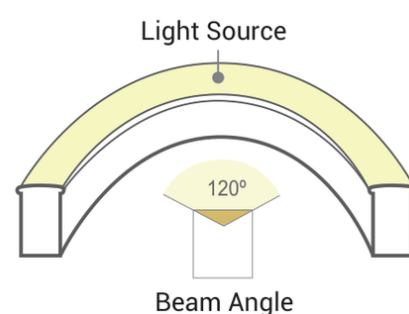
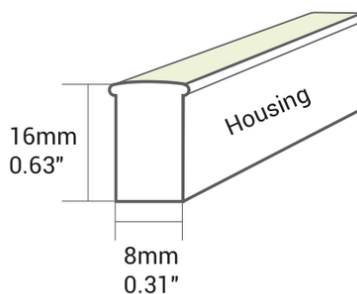
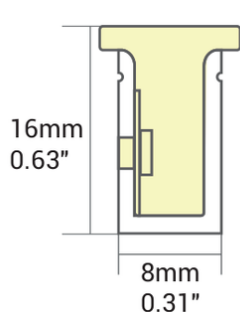
>90

CRI Ra

9.4W/m

Rated power

BODY DIMENSIONS, HOUSING & BEAM

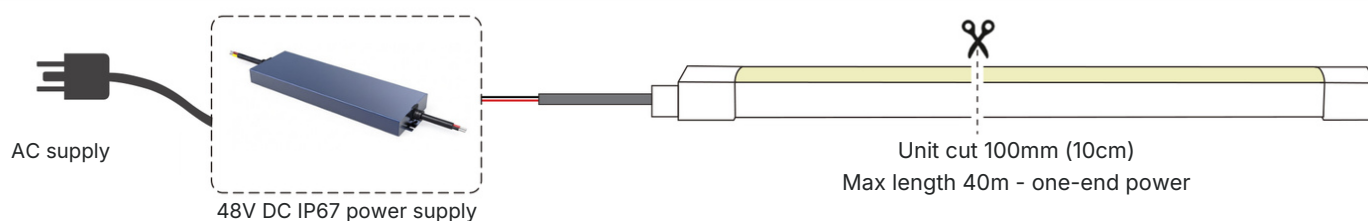


8mm body width · 16mm body height · 11mm emitting face · 120° beam. Fitting dimensions are separate.

WEBSITE SKUS

NF3000K48V816-IP67-10CM

ELECTRICAL SELECTION & ONE-END CONNECTION



Nominal current: 195.8mA/m, calculated from rated power / supply voltage. Load for the full 40 metre run: 376W before power-supply allowance. Match the supply voltage and allow headroom according to the driver specification.

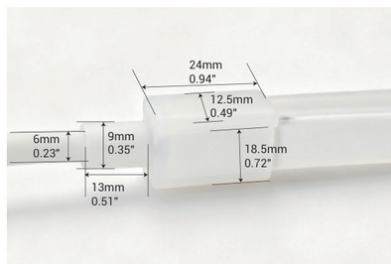
Check polarity, cable voltage drop and driver capacity. Do not join independent power-supply outputs together.



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.



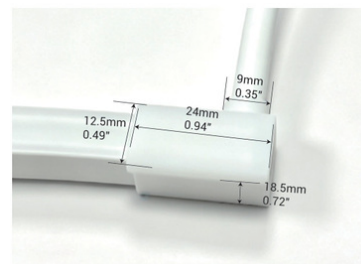
Front cable exit

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



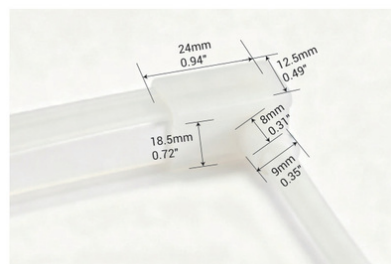
Bottom cable exit

24 / 12.5 / 18.5 / 8 / 9mm



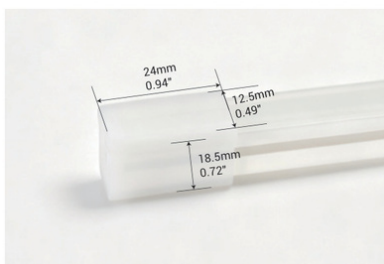
Left cable exit

24 / 12.5 / 18.5 / 9mm



Right cable exit

24 / 12.5 / 18.5 / 8 / 9mm



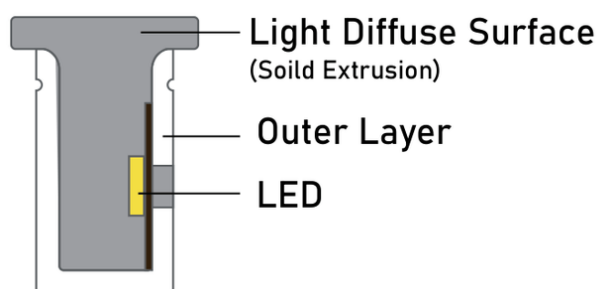
Closed end cap

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

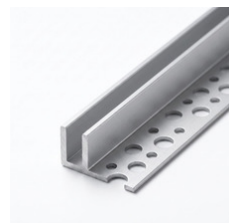
8x16mm profile options from UK LED Lights | Product images and SKUs link to the website.

MATCHING PROFILES - ORDER SEPARATELY



Straight aluminium

NFPROFILE-816
1 metre channel



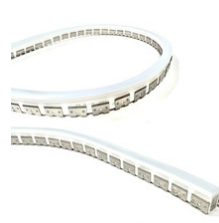
Tile-in aluminium

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



Bendable tile-in

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



Bendable aluminium

NFPROFILE-B0816
1 metre channel

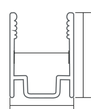


PVC channel

ALNFPROFILE816
1 metre channel

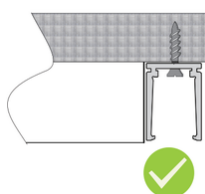
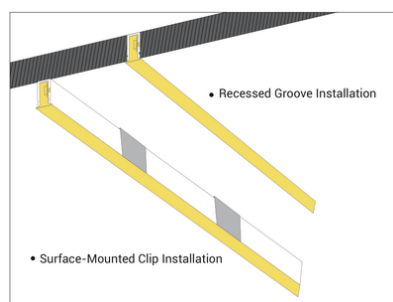
Tile-in SKUs ending -1M and -2M identify 1 metre and 2 metre lengths. Match the channel to the neon and planned bend. IP67 applies to the sealed neon, not the bare profile.

ILLUSTRATED CHANNEL DIMENSIONS

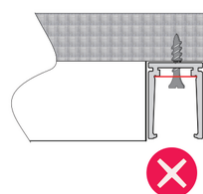


Supplier channel example: 10.5mm outside width / 9mm clear opening / 14mm height. These are accessory dimensions, not the neon body or every website profile. Check the chosen product drawing and fit. Example screw callouts: 6mm and 25mm; select fixings for the substrate.

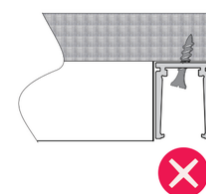
INSTALLATION METHODS & FIXING POSITIONS



Flush / recessed



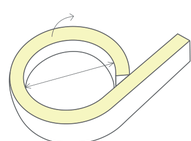
Proud head: wrong



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 100mm cut units straight. Do not twist, kink, crush or pull. Isolate power before work; use 48V DC, correct polarity, sealed joints and marked 100mm 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: [Install48-0816-C100.pdf](#)