# 10x10mm Dual Bend Neon Flex

Single-colour | 24V and 48V DC | 3D top and side bending

| 24V / 48V | 10x10mm | 41.7 / 83.3mm | 12m / 25m | Dual |
|---|---|---|---|---|
| Voltage | Cross-section | Cut interval | Maximum run | Bending |

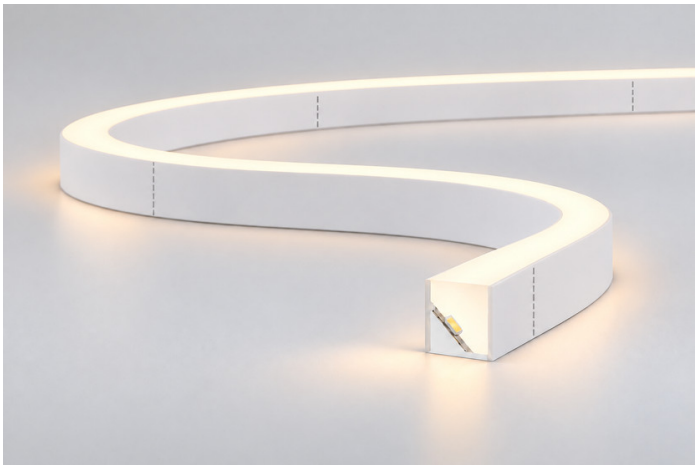
## SPECIFICATIONS

| | |
|---|---|
| Light colour | 2700 / 3000 / 4000 / 6000K |
| Supply | 24V / 48V DC |
| Order length | Custom cut at marked units |
| Cross-section | 10x10mm |
| Cut: 24V / 48V | 41.7mm / 83.3mm |
| Max run: 24V / 48V | 12m / 25m |
| Bending | 3D top and side |
| Light surface | Flat / nominal 120° |
| Material | Solid-silicone extrusion |
| IP rating | IP67* |
| Power | 11 W/m |
| Lumens per metre | See page 2** |
| Measured CRI Ra | See page 2** |
| LED type | SMD2835 |
| LEDs per metre | To be confirmed |
| Warranty | 4 Years |
| Average lifetime | 50,000 hours |
| Operating temperature | -30°C to 50°C |

## 24V PRODUCT SKUs

1-12m lengths

NF24-DB1010-27K
NF24-DB1010-30K
NF24-DB1010-40K
NF24-DB1010-60K



Silicone construction illustration

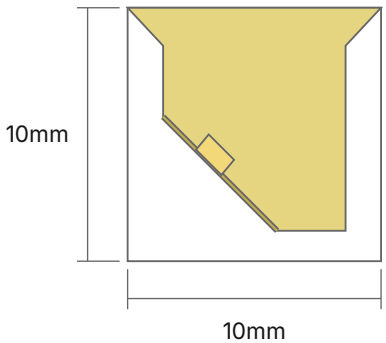
### 3D Dual Bend

A white solid-silicone body with a continuous diffused light surface. The internal PCB follows the supplied dual-bend section. Smooth top and side curves are supported.

* Neon body rating; the finished assembly depends on its connections. ** Supplier sample optical results are on page 2. The source lists “144 LEDs” without a verified length basis; LEDs per metre remains unconfirmed.

These lights are custom cut and made to order. Use the cut marks for the selected voltage.

## DIMENSIONS




### 10mm wide. 10mm high.

Flat emitting surface with a nominal 120° beam. Dual-bend construction supports top and side curves; the cross-section shows the angled PCB and white backing.

Dimensions refer to the neon body. Allow separate space for connectors and mounting channels. The hero is illustrative, not a cut-pitch drawing.

Dimensions in mm. Not to scale.

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## PERFORMANCE & INSTALLATION OVERVIEW

### 24V and 48V dual-bend white-light comparison

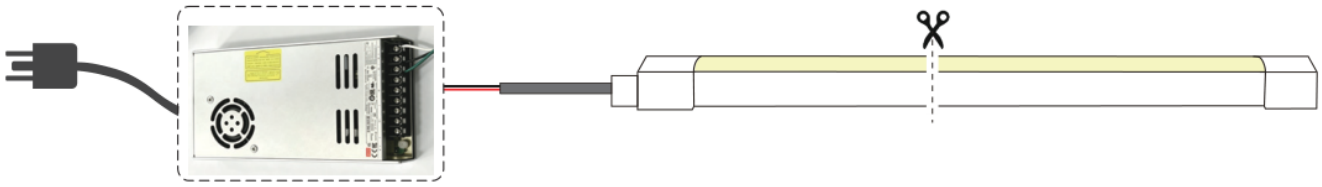
| Nominal CCT | 24V product SKU | 24V: lm/m | 24V: CRI Ra | 48V: lm/m | 48V: CRI Ra |
|---|---|---|---|---|---|
| 2700K | NF24-DB1010-27K | 548.13 | 91.3 | 546.02 | 91.3 |
| 3000K | NF24-DB1010-30K | 561.06 | 92.1 | 565.71 | 91.8 |
| 4000K | NF24-DB1010-40K | 594.58 | 90.6 | 594.58 | 90.6 |
| 6000K | NF24-DB1010-60K | 547.47 | 93.7 | 546.47 | 93.5 |

Supplier-reported output and individual sample CRI for the 3D dual-bend variants. These are typical sample values, not guaranteed production minima. Supply conditions and temperature affect actual output.

24V data: supplier page 12, bottom spectral row. 48V data: page 13, bottom spectral row. The dedicated dual-bend rows are used, not the horizontal- or vertical-only figures.

Nominal load = length (m) x 11W/m. Maximum one-end runs: 24V, 12m = 132W / 5.50A; 48V, 25m = 275W / 5.73A. Allow for the supply's stated derating and cable voltage drop.

## SINGLE-END POWER CONNECTION

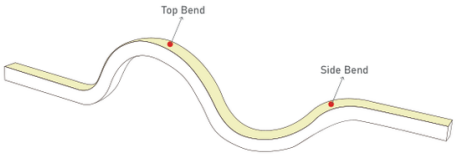


AC supply | Matched constant-voltage DC supply | One-end feed / cut at the marked unit

### 24V: 41.7mm cut / 12m maximum | 48V: 83.3mm cut / 25m maximum

**WARNING: Match the light with the marked 24V or 48V DC constant-voltage equipment; never connect directly to 220-240V AC mains. Incorrect voltage can damage it.** Isolate power and fully unroll before use. Check load capacity, cable size, voltage drop and polarity; keep non-weatherproof equipment dry. Do not parallel independent supply outputs.

## DUAL BENDING




Form broad, smooth curves in both top and side planes. Gentle 3D forming is permitted; avoid tight kinks or concentrated torsion. Keep the first and last full cut units straight beside connectors.

Minimum bending diameter: to be confirmed before forming. Do not infer a safe bend radius from the illustration. Longer or alternative feed arrangements require a verified electrical design.

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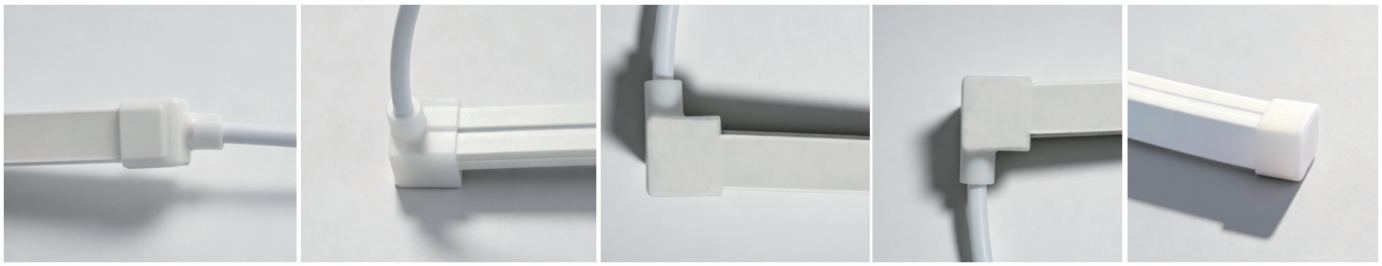
## CONNECTION ACCESSORIES

Choose the cable-entry direction and connector family for the exact 10x10mm neon and environment. Fitting ratings are separate from the IP67 neon body rating; select and seal the complete system accordingly.

### IP67 connector options

Front | Bottom | Side left | Side right | End cap

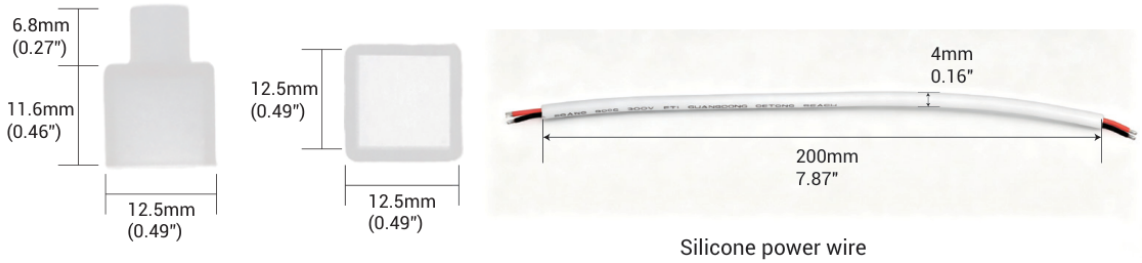
### IP65 connector options



Front | Bottom | Side left | Side right | End cap

Accessories are selected separately. Illustrations do not confirm included parts or certify a field-assembled joint. Use a compatible termination kit, specified sealing method and full cure.

## FITTING & LEAD REFERENCE




Silicone power wire

The supplier shows a 200mm example lead with a 4mm external callout. These are accessory references, not confirmation of the included lead length, conductor cross-section or current capacity. Connector dimensions are not neon-body dimensions.

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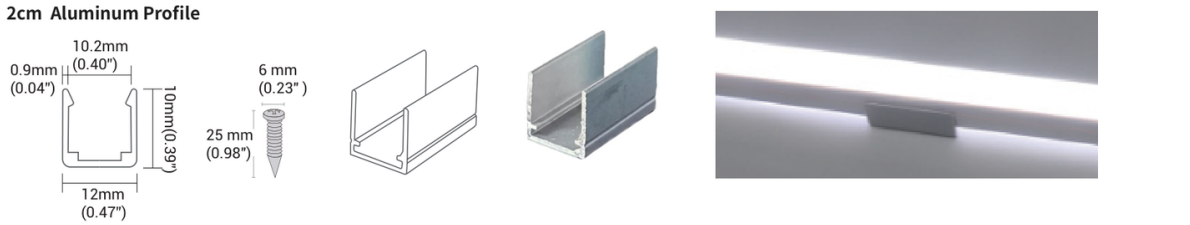
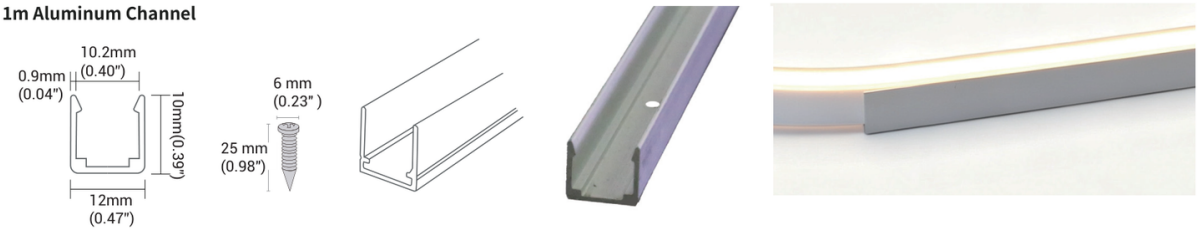
## CHANNELS & MOUNTING

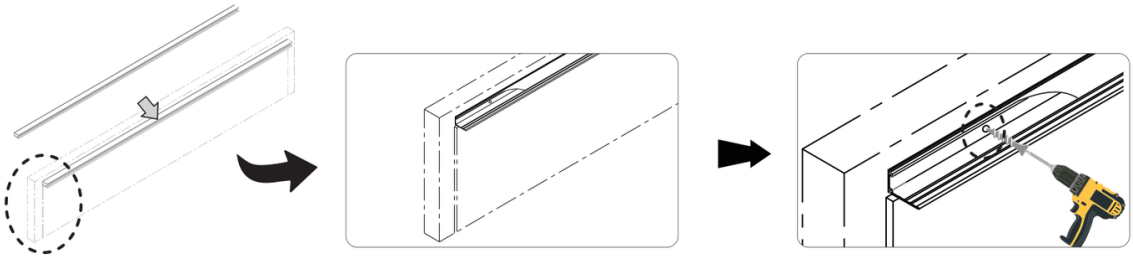
### 20mm clip and 1m aluminium channel



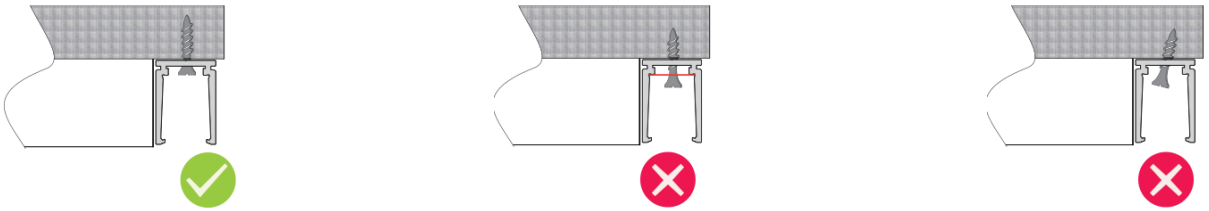




Supplier mounting reference: 12mm outside width, 10.2mm clear width, 10mm height and 0.9mm wall. Clip length 20mm; channel length 1m. Confirm the supplied channel and connector fit before fixing.

## SECURE THE CHANNEL FIRST



Fix into a suitable substrate. Screw heads must sit flush with or below the channel base, with screws straight and clear of the neon. Remove sharp edges and debris. Insert progressively without forcing or trapping the light.



Flush or recessed screw: correct. Protruding or angled screw: incorrect.

For illustrated cutting, connection, sealing, curing, commissioning and troubleshooting, read Install-1010-DB.pdf. Follow the matching termination-kit instructions and keep each end unit straight.

**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.