15 x 15mm (W x D) Vertical Bend Neon Flex

Red | 48V DC | 100mm (10cm) cut | 40m single-end feed

48V	15x15mm	100mm	40m	Vertical
Voltage	Cross-section	Cut interval	Maximum run	Bending

SPECIFICATIONS

Brand: ATOM LED

Light colour	Red
Supply	48V DC
Available lengths	1-40 Metres
Cross-section	15x15mm
Cut interval	100mm (10cm)
Single-end feed	Max. 40m
Bending	Vertical only
Light surface	Flat / 120°
Body	Silicone injected
Body protection	IP67*
Rated power	9W/m
Nominal current	187.5mA/m***
Light output	448 lm/m
LED type	SMD2835
LEDs per Metre	120
Warranty	4 Years
Average lifetime	50,000 hours
Operating temperature	-30°C to 50°C

Silicone construction illustration

Fully silicone injected inside

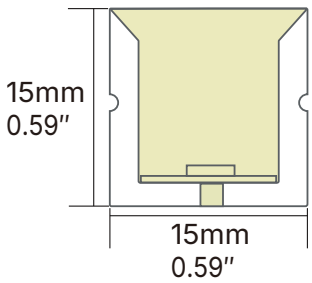
A fully filled silicone interior surrounds the LED strip within the flexible body. The illustration shows the common product construction.

* Body rating; select the appropriate sealed connector system.

*** Nominal current calculated from rated power / supply voltage; not a measured sample current.

These lights are custom cut and made to order to your specific requirements.

DIMENSIONS



FLAT SURFACE: 120°

15mm wide x 15mm deep (W x D).

Flat emitting face with a nominal 120° surface angle. Bend in the vertical plane only.

Connection and bending diagrams follow on page 2; connector and mounting diagrams are on pages 3-4.

Dimensions in mm. Not to scale.

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PERFORMANCE & INSTALLATION OVERVIEW

Electrical selection

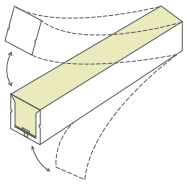
48V DC constant voltage; 100mm (10cm) cut marks; maximum 40m single-end feed.

120 LEDs per metre; 448 lm/m; 9W/m; nominal current 187.5mA/m (calculated as power / supply voltage).

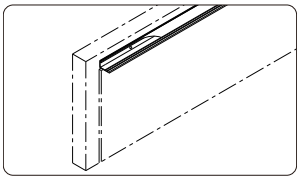
Silicone-injected IP67 body; -30°C to 50°C operating temperature. Use appropriate sealed connectors.

Nominal load: length (m) x 9W/m. A 40m run is 360W before driver allowance.

Cut squarely at marked cut points.

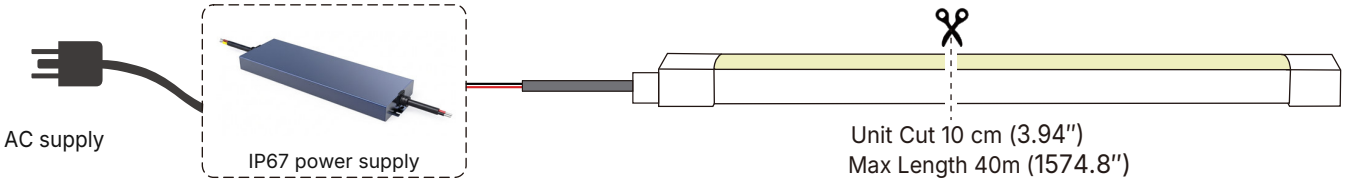


Bend vertically. Do not twist.



Secure the channel first; insert progressively by hand.

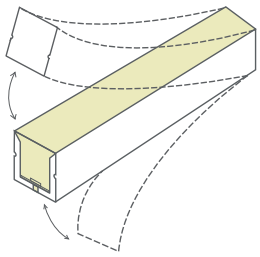
SINGLE-END POWER CONNECTION



100mm (10cm) cut marks / maximum 40m single-end feed

Power-supply illustration: select a 48V DC unit with the correct load capacity. Isolate power before installation; fully unroll the neon before energising it.

VERTICAL BENDING



Bend only in the illustrated vertical plane. Do not twist, kink or bend sideways. Keep the first and last units straight beside connectors.

Connector and mounting details follow on pages 3-4. Read the separate Installation Guidelines for complete installation, cutting, sealing and commissioning instructions.

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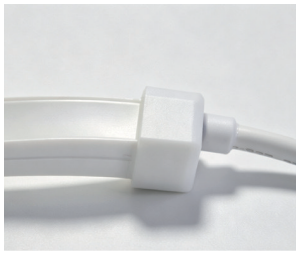
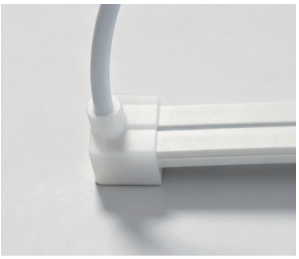
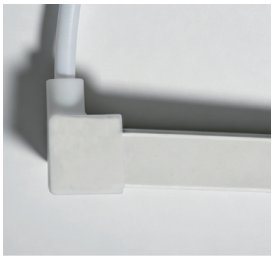
CONNECTION ACCESSORIES

Two separate silicone connector systems are illustrated. Select the required entry direction and protection rating, and confirm compatibility with the exact neon and installation. Connector-option ratings are separate from the neon body rating.

IP67 connector options


Front


Bottom

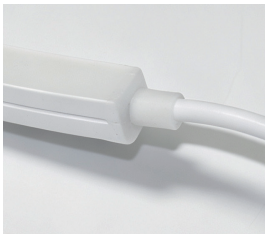

Side left

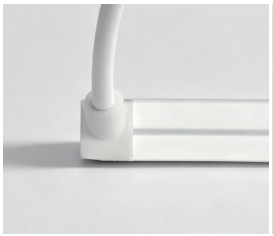
Side right

End cap

IP68 connector options

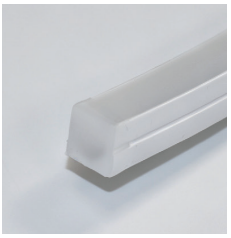
IP68 connector options are available for custom lengths. Please discuss your requirements with our sales team. These options normally take 2-3 weeks to complete.


Front

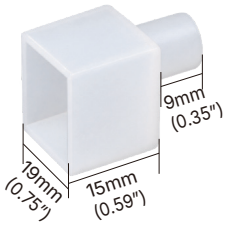

Bottom

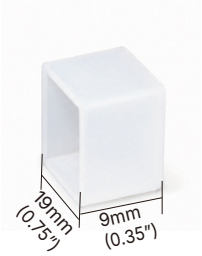
Side left

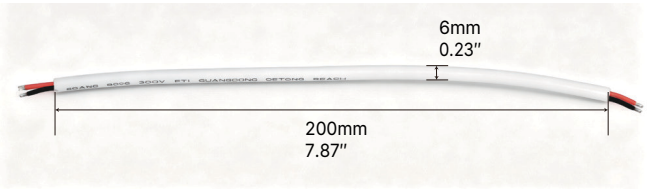
Side right


End cap

FITTING & LEAD REFERENCE







Silicone power wire

Supplier dimensions are shown in the drawings. The example lead is 200mm long with a 6mm callout; this does not specify conductor size or current capacity.

IP67 and IP68 accessories are separate options, not a list of included parts or confirmation of the finished assembly rating. Confirm the connector, lead length and sealing method when ordering.

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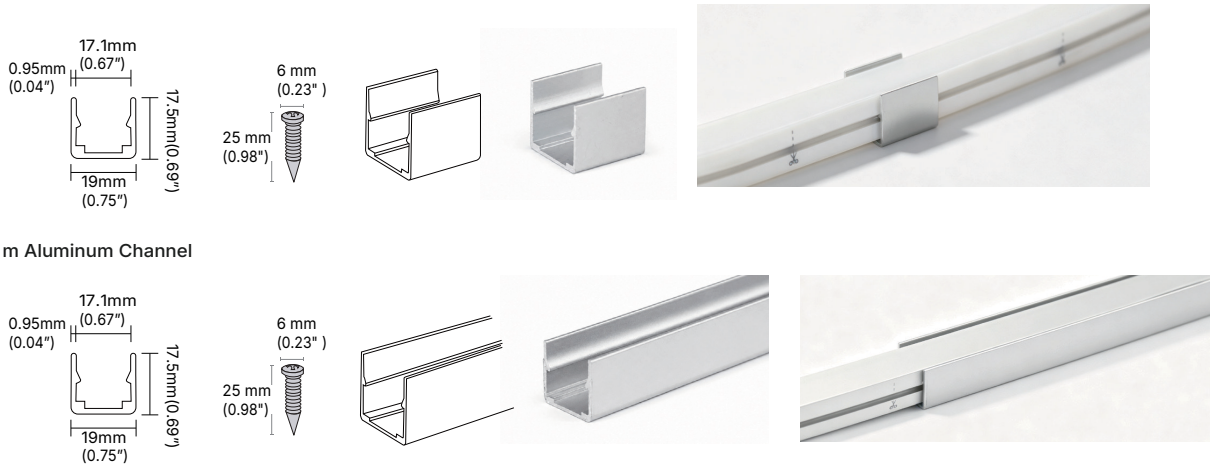
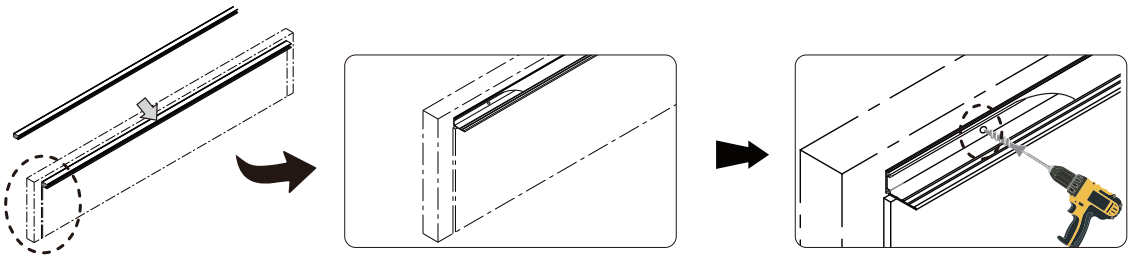
CHANNELS & MOUNTING

20mm clip and 1m aluminium channel

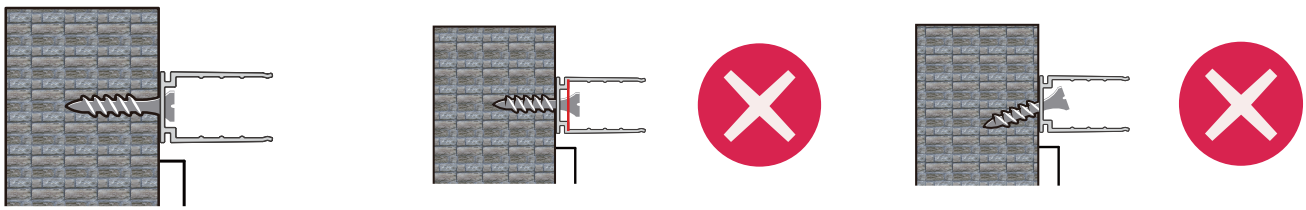


The source shows a 19mm outside width, 17.1mm clear width, 17.5mm height and 0.95mm wall. Confirm the channel and connector fit before fixing.

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 before insertion.



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

Isolate power before work. Bend only vertically, keep end units straight, support cables and protect every seal. Read the separate 6-page Installation Guidelines (48V) for complete cutting, sealing, handling and installation instructions.