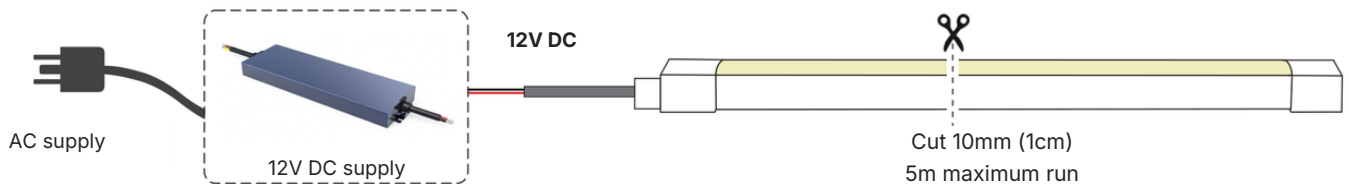


6x12mm Horizontal Bend Neon Flex

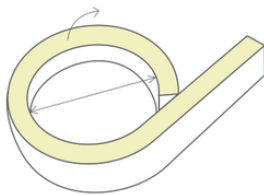
Single colour | 12V DC | 10mm (1cm) cut | 5m maximum run

POWER, HORIZONTAL BENDING & ESSENTIAL CAUTIONS



Supply illustration is an example, not an included model or an IP rating. Use a compatible 12V DC constant-voltage supply and two-wire + / - connection.

12V DC only. Approximately 6.5 W/m. Cut at 10mm (1cm) marks only. Maximum continuous run: 5m. Never connect the light directly to mains.



Horizontal / Side Bend



Do not twist



Do not bend vertically

Bend horizontally, keeping the domed face upright. The 2cm maximum-bending field has no specified radius/diameter basis; confirm the minimum radius before making tight shapes.

- 01 Isolate power before cutting, connecting, installing, maintaining or inspecting.
- 02 Check actual + / - polarity and the supply, controller and cable capacity.
- 03 Fully unroll before energising. Keep non-weatherproof power equipment dry.
- 04 Keep end fittings straight and support leads without loading the seal.
- 05 Operating temperature: -25°C to +45°C. Check environmental suitability before fitting.

6x12mm Horizontal Bend Neon Flex

Single colour | 12V DC | 10mm (1cm) cut | 5m maximum run

CONNECTIONS, CAPS & PRODUCT IDENTITY

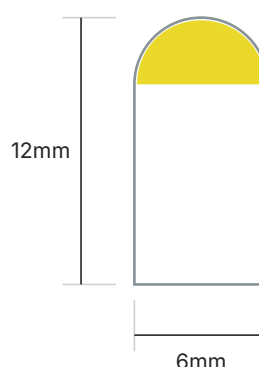
Single-colour 6x12mm, 12V DC, IP65 neon with 1cm cut marks. Match the label and actual cut marks before work. Use the supplied domed IP65 termination kit.



Front feed reference



Closed tail reference



Colour coating follows the dome. White-light versions use an opal-white diffuser. Walls and caps are opaque white.

FRONT EXIT AND SEALING

Two conductors only

Connect to the actual + and - pads. Red/black wires exit the front face of the rounded feed cap, not the side or underside.

Match the body

Only the coloured domed surface emits light. Confirm the actual cap and channel fit; reference fitting photographs do not replace the IP65 dimension drawing.

Installation artwork is reused from the 6x12mm IP67 guide. It illustrates the method, not this product's cross-section, fitting compatibility or wiring layout. Use the retained domed IP65 drawing and the actual two-wire termination kit.

The body is IP65. End seals and cable entries require their own correctly fitted sealing system. Do not submerge.

6x12mm Horizontal Bend Neon Flex

Single colour | 12V DC | 10mm (1cm) cut | 5m maximum run

CHANNELS, TOOLS & MOUNTING



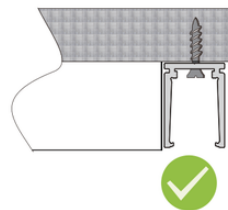
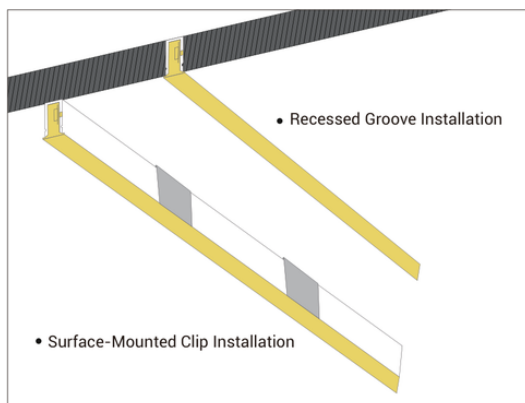
Channel example



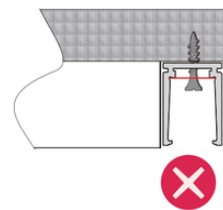
Clip example

Confirm a support matched to the domed IP65 body. No universal fixing spacing, channel size or connector clearance is assumed.

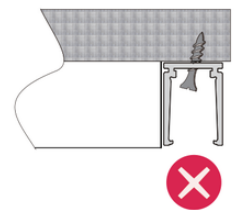
INSTALLATION METHODS



Flush / recessed



Proud head: wrong



Angled screw: wrong

Recessed groove or surface-mounted clips: choose the correct support and suitable substrate fixings. Keep screw heads clear of the neon.

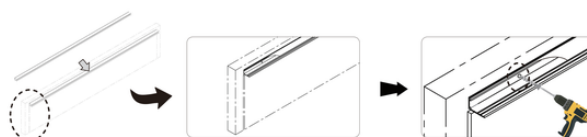
TOOLS & PROGRESSIVE INSERTION



Or



Secure the empty support first. Deburr cut edges, remove swarf and keep tools away from the silicone body.



Insert gently by hand from one end. Support the body evenly; do not force a connector into the support.

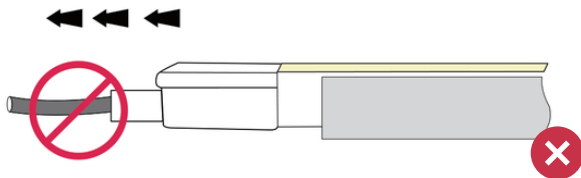
6x12mm Horizontal Bend Neon Flex

Single colour | 12V DC | 10mm (1cm) cut | 5m maximum run

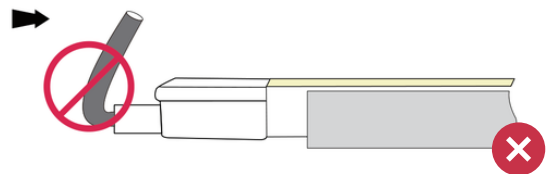
CONNECTOR CLEARANCES & CABLE CARE



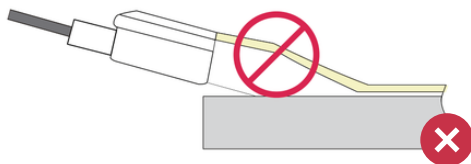
Leave sufficient clearance for the actual end fittings and cable. Confirm the required gap for the IP65 kit; IP67 numeric gaps do not apply automatically.



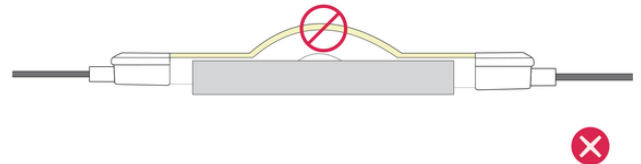
Do not pull the front cable.



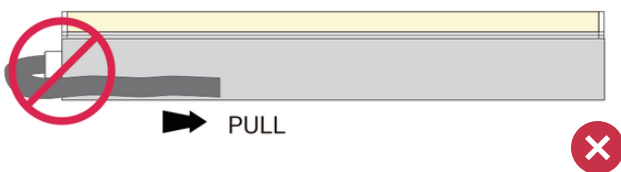
No sharp fold at the cable entry.



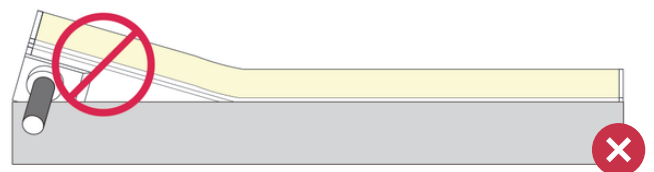
Do not force the cap over the support.



Do not trap a raised hump.



Do not fold the cable back at the cap.



Keep the end fitting clear of the channel.

Support the supply cable independently. No sealed joint should carry cable weight, tension or sideways pulling force. Protect the ends throughout fitting and curing.

Installation artwork is reused from the 6x12mm IP67 guide. It illustrates the method, not this product's cross-section, fitting compatibility or wiring layout. Use the retained domed IP65 drawing and the actual two-wire termination kit.

6x12mm Horizontal Bend Neon Flex

Single colour | 12V DC | 10mm (1cm) cut | 5m maximum run

INSTALLATION STEPS 1-3: PLAN, CUT & PREPARE

Work with power isolated. The soldering examples apply only to a compatible soldered kit; follow a solderless kit's own instructions when supplied. Photos show the process, not the IP65 pinout or cap shape.

01 Plan the route

Measure before cutting. Use the actual 10mm (1cm) marks and keep continuous runs within 5m.



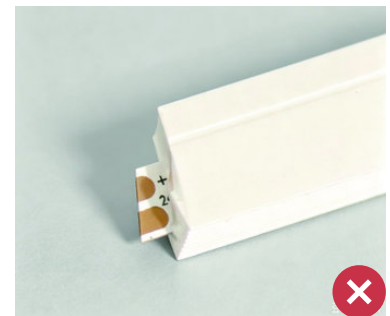
Measure before cutting

02 Cut squarely at the mark

Cut only at the mark. Keep the PCB flat; do not crush, tear or leave an uneven end.



Cut at the marked position



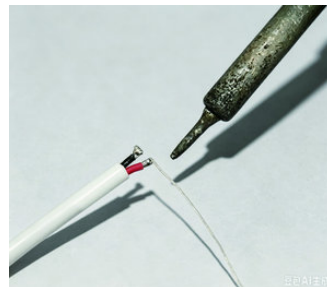
Incorrect: uneven cut

03 Tin both pads and conductors

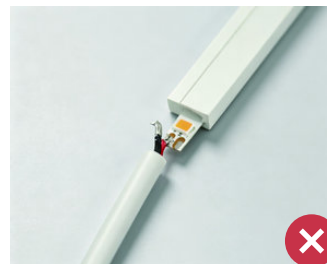
For a soldered kit, prepare and tin the actual + / - pads and both power conductors. Avoid loose strands, solder burrs and bridges. Inspect joint strength before sealing.



Tin the actual pads



Tin both conductors



Incorrect: poor joint



Incorrect: solder burr

Some source photos show additional conductors. This single-colour product uses only the actual + / - pair; do not copy the pictured wire count.

6x12mm Horizontal Bend Neon Flex

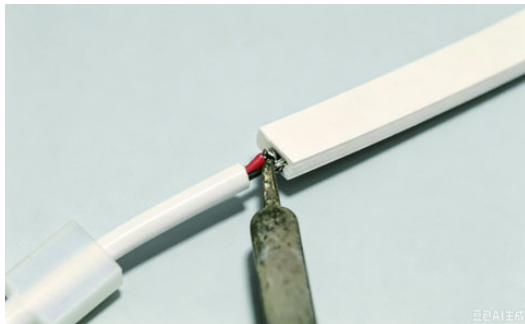
Single colour | 12V DC | 10mm (1cm) cut | 5m maximum run

INSTALLATION STEPS 4-7: CONNECT, SEAL & CURE

Use the matching IP65 termination kit and its specified compound, preparation and cure time. These source photos illustrate actions; they do not establish accessory compatibility.

04 Connect and check polarity

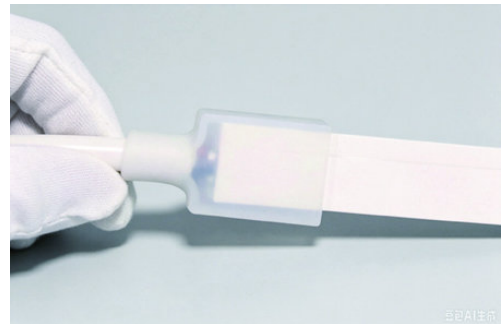
Position the fitting as required, connect each conductor to its matching + / - pad and inspect both joints before sealing.



Connect the actual two-wire + / - pair

05 Seal the feed and seat fitting

Cover the exposed interface with the specified compound. Fit the matching rounded cap, keeping both wires exiting its front face.



Seat the matching cap after sealing

06 Seal entry and perimeter

Seal around the cable entry and cap perimeter as specified. Support the cable so the sealed joint is not pulled or loaded.



Seal the cable entry



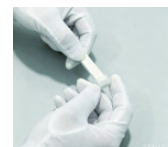
Seal the perimeter

07 Seal the tail and allow cure

Seal the tail, fit the closed cap and check the perimeter. Allow the full specified cure before power or moisture exposure.



Seal the tail



Fit the cap



Seal the perimeter



Check the finish

No generic sealant or curing duration is assumed. Contact ATOM LED if the matching kit instructions are missing.

6x12mm Horizontal Bend Neon Flex

Single colour | 12V DC | 10mm (1cm) cut | 5m maximum run

COMMISSIONING, TROUBLESHOOTING & CARE

Before switching on

Confirm 12V DC and actual + / - polarity, load capacity, 10mm (1cm) cut marks and the 5m run limit. Check smooth horizontal curves, supported cables, correct fixings, sealed ends and completed cure. Fully unroll the light.

First output check

Test the complete run and check even output. If anything flickers, overheats or behaves unexpectedly, isolate power before inspecting the installation.

TROUBLESHOOTING

No light	Check incoming power, 12V DC output, polarity and each joint/controller connection.
Dim far end	Check voltage drop, cable/load, joint resistance, dimmer setting and the 5m run limit. Obtain a confirmed feed design.
Too bright	Check supply output and dimmer/controller settings. Isolate power before correcting.
First section off	Check the cut and connection for physical damage. Replace damaged material at permitted marks and reseal.
Flickering	Check supply stability and capacity, joints and controller/dimmer compatibility.

CARE & WARRANTY

Isolate power before cleaning or maintenance. Check the silicone, supports and seals; replace damaged or poorly sealed sections. Keep the system within its confirmed environmental limits.

Warranty: 2 Years. Existing listings specify 2 Years indoors and 1 Year for sheltered outdoor light-splash use where stated. Refer to the exact product listing for coverage.

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