

FloppyFlex – A Better LED Neon

What we mean by endless possibility

FloppyFlex is an exceptionally unique product. Not only is it safe, durable, and bright, but the possibilities for creating digital signage and architectural contour highlights give designers substantially more freedom than the limiting factors of rigid glass neon.

The range of FloppyFlex products can be suitable for a variety of environments. Whether indoor or outdoor, it can perform as a simple color feature or it can be paired with a digital driver to facilitate advanced programming of animated color-changing chase effects.

But how does a seemingly inflexible solid LED product become a shape-shifting design powerhouse?

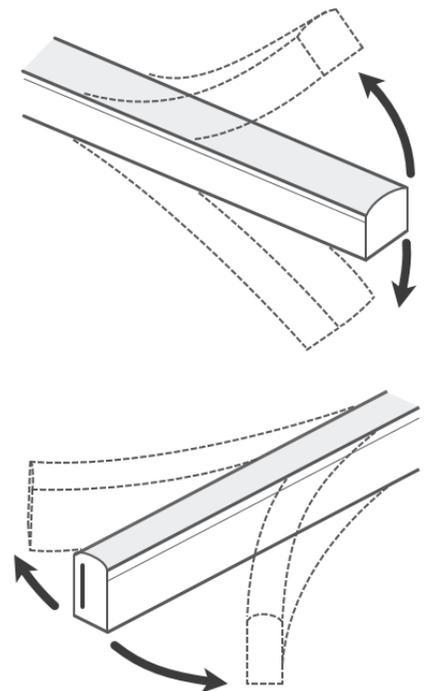
It's all about the bend

FloppyFlex products contain a specialized PCB which is encased in a flexible PVC or Silicone. The entire product is seamlessly bonded together giving a beautiful and homogenous output through the visible top surface of the light.

Front-to-back (vertical) bending is achieved by allowing the body of the light to flex along the surface of the PCB, where LEDs are aimed directly through the viewing surface.

To achieve side-to-side (horizontal) bending, the LED PCB must be placed vertically with light emitting to the side. Other internal focusing materials are added, which are designed with the optimal reflection angle to bounce light upwards and out of the viewing surface with maximum output.

Additionally, surface mount reinforcement is added where LEDs attach to the PCB and help to reduce damage and prevent component shearing in cases of incorrect twisting or mishandling. Strength of the PCB component is improved with integrated copper belting throughout.



Best use tips

While very durable and flexible, FloppyFlex is not immune to misuse and abuse. To maximize the life and operation of FloppyFlex, follow these tips:

- Always use aluminum mounting profiles for permanent installation of FloppyFlex
- Make sure that there are no bulges from screw mounting profiles
- Never use deformed profiles and avoid misalignment between joining pieces of aluminum profile
- When installing around a tight corner, make sure mounting profiles leave enough space to respect the minimum bending diameter specification
- Install the light into the profile from one direction only – do not bubble in the middle
- Best use is permanent installation or built into set pieces – avoid regular rolling and unrolling
- Never let FloppyFlex hang by its own weight. If the length is greater than 2 meters, make sure an additional person helps lift it into place
- Never twist or bend in the wrong direction
- Never reuse EZ-Connect power feeds

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