

XFL Flexible Linear LED XCC Channels INSTALLATION INSTRUCTIONS



Xicato designs and delivers one of the broadest portfolio spot and linear light sources and electronics that enable architects, designers and building managers to create beautiful, smart spaces in which people love to live and work. With thousands of installations around the globe, Xicato continues to be a leading supplier of high quality lighting solutions. Xicato is defining the future of intelligent light sources by integrating electronics, software and connectivity. Founded in 2007, Xicato's headquarters is based in Silicon Valley and the company has offices in China, Europe and the US.





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APPLICATION NOTES:

IP67 XFL do not come with adhesive on the back and have to be mounted using clips (XLA-M). Installers may use double-sided adhesive tape to mount the IP67 XFL and Xicato recommends the 3M 4229 for that purpose.

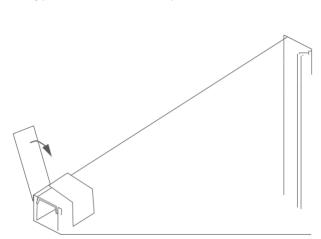
IP67 XFL must also be sealed at the ends of the strip using a boot (XLA-B), and by applying a silicone sealant to fix the boot in place. Xicato recommends a non-acidic neutral silicone sealant such as Loctite Superflex SI 5050CL, Dow Corning 737, Momentive RTV-11, or similar for that purpose.

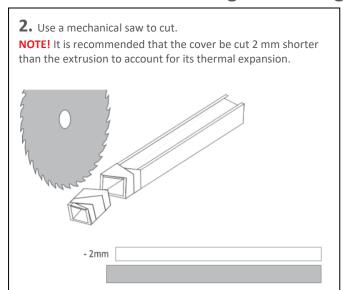
The most common use of IP67 XFL tape is in outdoor applications where the XFL is mounted directly on the intended surface. In general, an extrusion is not used to build a fixture in such cases. However, it is possible to build a water-resistant fixture with XFL tape in one of two ways. Extrusions have their own IP rating, however the rating of a fixture depends not just on the rating of the tape and extrusion, but also method of assembly and should always be tested after assembly if required. In both the cases below, the fixture assembly is expected to be IP65 splash resistant.

- Use IP67 XFL tape in an extrusion that is compatible with the dimensions of the XFL. This is shown in the XCC-C spec sheet for XFL products. This requires using the right end cap XCC-E and mounting hardware XCC-M for the extrusion selected.
- 2. Use a IP22 XFL tape in a compatible extrusion, using the process outlined later in this application note. This requires using a lens cover for the fixture and sealing the fixture with silicone.

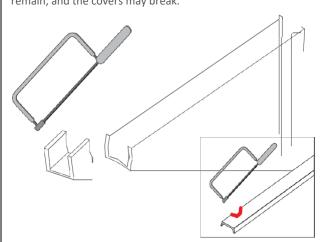
Cutting and Drilling

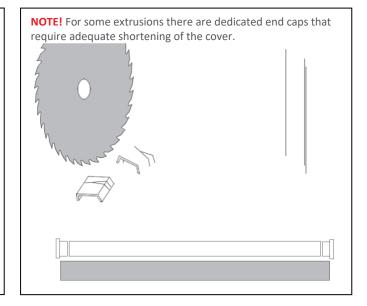
1. Before cutting the extrusion with the cover, secure the cutting point with self-adhesive tape.





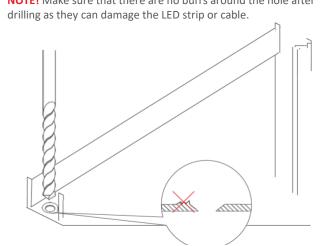
NOTE! Low precision cutting of the extrusion and cover can be done with a hand saw, however, uneven, jagged edges will remain, and the covers may break.

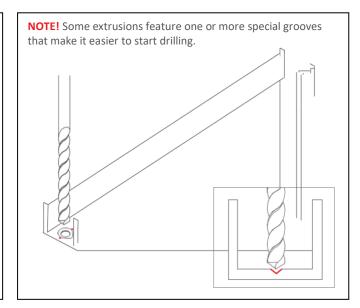




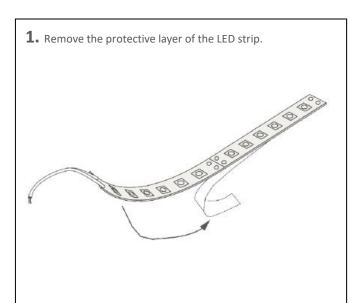
3. Drill a hole in the extrusion in the selected place.

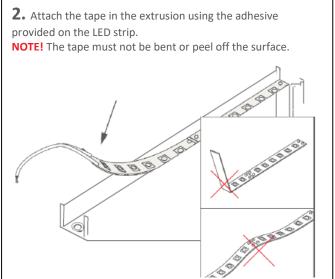
NOTE! Make sure that there are no burrs around the hole after drilling as thou can demand the LED strip or sable.

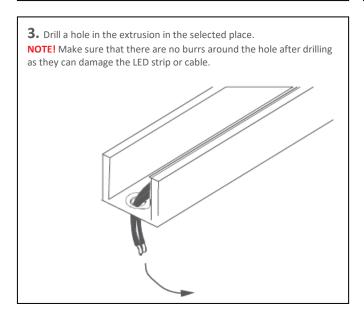


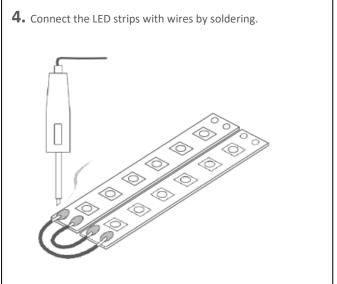


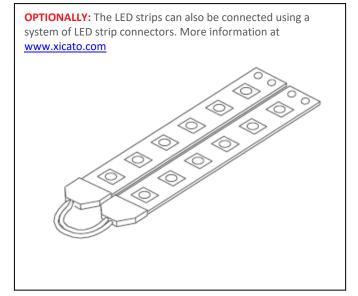
Adhering and Connecting LED Strips

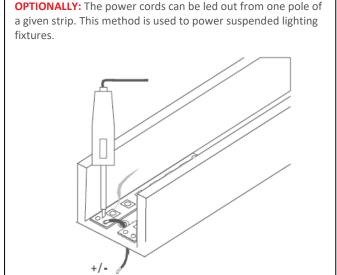




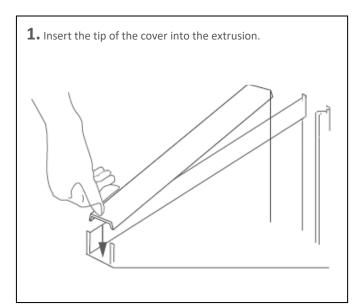


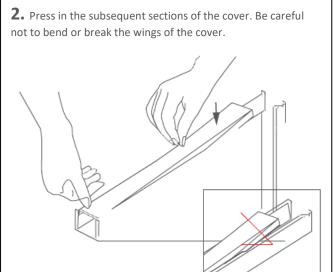


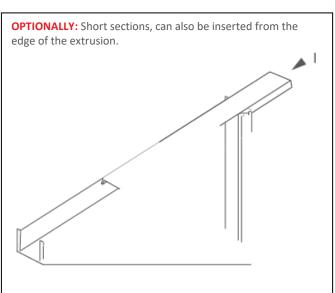




Adhering and Connecting LED Strips

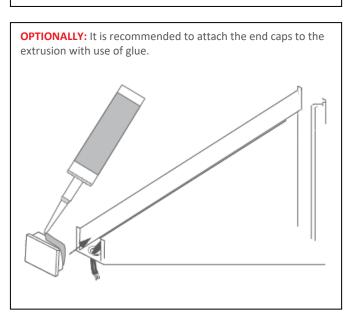


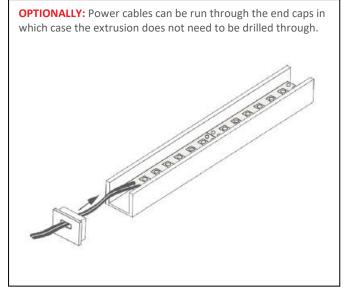




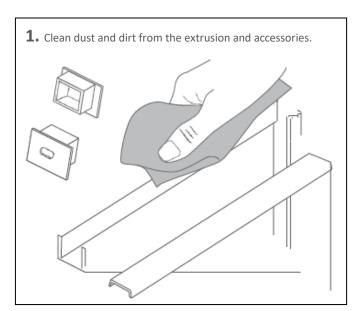
3. Insert an end cap into the edge of the extrusion. Individual extrusions have shape that allows easy installation of dedicated end caps.

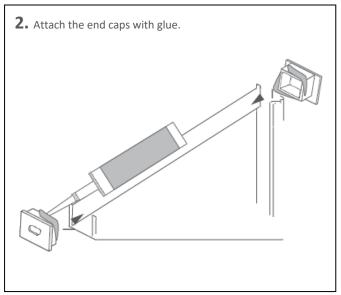
NOTE! Some end caps require an adequately shortened cover. This should be taken into account when cutting the extrusion and the cover.





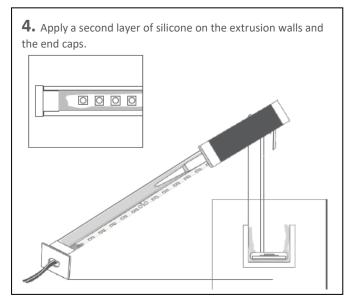
Sealing the Profile

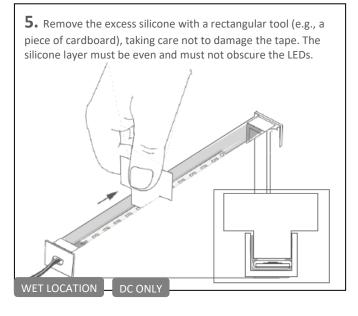


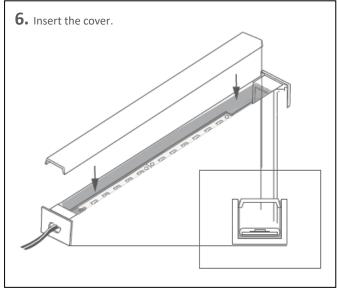


3. Apply a silicone layer to the bottom of the profile and embed the LED strip in it.

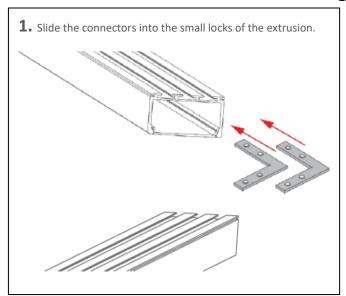
NOTE: The LED strip must have separate protection against moisture. We recommend a silicone sleeve or heat shrink tubing if the strip in the sleeve does not fit into the extrusion.

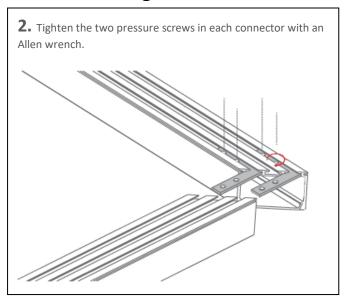


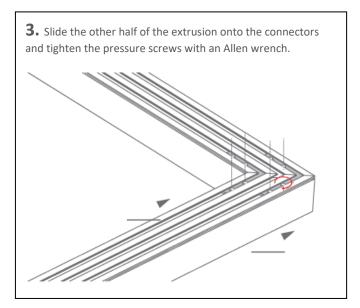




Connecting Extrusions Using Available Connectors







Field modifications and installation must comply with all local and national codes as well as Xicato's installation methods, see xicato.com for more information. Manufacturer retains the right to change specification information at any time.