

Extension Cord Clip Print & Mount Guide

One screw, one clip, and the cord stays exactly where you put it.

Four Batch Plates

Tree Supports

Pre-Configured 3MF

Built by MakerX Designs · Virginia Beach, VA · makerxdesigns.com · © 2026

Extension cords never stay routed, and the nail-in clips from the hardware store split the moment you drive them. This one takes a proper wood screw and lets you press the cord in from below — so you can clip a cord that is already run and already plugged in.

In the download

File	What it is
makerx-extension-cord-wire-clip.3mf	Start here. Four ready-made plates — 1, 6, 12 and 24 clips — oriented, with the tested profile and supports set up.
makerx-extension-cord-wire-clip.stl	A single clip, for your own slicer or your own array.

1 · The screw it is built around

The part	
Overall size	22 × 14 × 8 mm
Takes	#7 Phillips flat head wood screw
Through hole	4.4 mm for the shank
Countersink	opens to 7.6 mm so the head sits below the surface
Mark	debossed MakerX mark on the side face

★ Pick the length to suit what you are screwing into

The clip only accounts for the head. A 3/4 in screw suits a joist or stud; use a plastic anchor in drywall or masonry. Nothing about the clip changes.

2 • Pick a quantity, then slice

- 1 Open `makerx-extension-cord-wire-clip.3mf` in Creality Print, or any slicer that imports 3MF project files.
- 2 When it asks whether to load the project's print settings, **say yes** — that is the whole point of the 3MF, and it brings the support setup with it.
- 3 **Choose your plate.** The project carries four: 1, 6, 12 and 24 clips. Slice the one you want rather than duplicating parts by hand.

Supports are required on this part — leave them on

The cord channel is open from below and its mouth overhangs. **Tree, auto, 30 °** is what the profile ships with and what the plates below were costed with. Turning it off gives you a drooping channel and a clip that will not take the cord.

3 • What each plate costs

Plate	Print time	Filament
1 clip	25 m 20 s	1.70 g
6 clips	57 m 48 s	9.93 g
12 clips	1 h 53 m	19.81 g
24 clips	3 h 45 m	39.56 g

About 1.65 g a clip on the 24-up plate — roughly \$0.59 for all twenty-four.

4 • The profile baked into the 3MF

Quality	
Layer height	0.12 mm
Nozzle	0.4 mm
Walls	3 loops
Top / bottom	5 / 3 layers
Infill	9 % gyroid

Supports & adhesion	
Supports	Tree, auto — required
Threshold	30 °
Brim	Auto, 5 mm

Material & plate	
Filament	PLA as sliced · PETG for a cold garage
Nozzle temp	220 °C
Bed temp	60 °C
Sliced on	Creality Hi, 0.4 mm nozzle

Before you hit print	
Supports	confirmed on
Brim	present

5 • Off the plate

- 1 Let the plate cool, then flex it and lift the clips off.
- 2 Peel the brim from each one. On the 24-up plate they often come away as a single sheet with the clips still attached — snap them apart afterwards.
- 3 **Twist the tree support out of the cord channel.** It is anchored inside the mouth of the opening and comes away in one piece with a fingernail or fine pliers.
- 4 Check the channel is clear and the countersink is clean. A quick pass with the screw itself tells you both at once.

★ Clear the channel properly

A leftover support nub inside the channel is the one thing that makes a clip refuse the cord. It takes a second per clip and it is worth doing all of them at once while you have the pliers out.

6 • Mount them

- 1 Hold the clip where you want it and drive a **#7 flat head wood screw** through the countersunk hole. The head pulls below the surface; do not keep going once it seats.
- 2 **Press the cord in from below.** The channel is open, not a tunnel — so there is no unplugging, no threading and no starting over on a cord that is already run.
- 3 Space them along the run until the cord tracks straight. Sagging between clips means they are too far apart, not that the clip is wrong.

7 • Turning corners, and other tricks

- **Inside corners.** Put one clip on each side of the corner, close to it. The cord then follows the wall instead of bowing away from it across the gap.
- **Drywall or masonry.** Use a plastic anchor. The clip does not care what is behind it, only that the screw holds.
- **Low-voltage cable too.** Speaker wire, doorbell and network cable all sit in the same channel.
- **Color to disappear, or to stand out.** White on white reads as trim hardware. A bright Color along a workshop wall makes the run obvious on purpose, which is sometimes what you want.

Where precision meets the printer

Thanks for printing these. If a run of them tidied up a wall you had given up on, that is exactly what they were designed to do.

For years my design world existed entirely behind a screen. As a mechanical engineer I spent countless hours building complex CAD models, but there was always a missing link — the ability to hold an idea in my hands. That changed in January 2026, when I went headfirst into 3D printing. The moment that first layer stuck to the bed, the gap between concept and reality vanished.

Coming from a background where precision is everything, tolerances aren't suggestions to me — they are a religion. I didn't want to print trinkets; I wanted to apply industrial engineering discipline to desktop manufacturing. Every wall count, every layer height and every infill percentage in this guide is a deliberate decision backed by testing. This clip is not a remix — it was modeled from scratch in SolidWorks, printed, and is holding both a black outdoor extension cord and a white indoor cord along my own garage soffit.

Three principles behind every print

01**Functional Engineering**

High-utility, real-world solutions rather than purely decorative models. If it doesn't solve a practical problem, it doesn't leave the workstation.

02**Rigorous Tolerances**

Designed in professional CAD with mechanical intent — press-fits that click and assemblies that work straight off the build plate. No sanding, no filing, no guesswork.

03**Bridging the Gap**

Industrial structural integrity at maker speed. Proving a desktop printer can produce parts worthy of real engineering applications is what drives every release.

The workshop

Mechanical engineering degree · SolidWorks precision modeling · two Creality Hi printers · Virginia Beach, Virginia · every design free to download.

A note on sharing

I'm thrilled when people use and share these designs. I just ask that you respect the license shown on the model listing and give the required credit, so I can keep contributing to the collective workshop.

IF THESE EARNED THEIR SPOT

A **Like** or a **Favorite** on the model page takes a second and genuinely helps. A **Boost** helps more than either — it is what puts a design in front of makers who would never otherwise come across it. And if you **Follow** me, new models and updates land in your feed as they are released. However you choose to support it, thank you — it is what keeps everything here free to download.

Got a cord this channel doesn't suit, or a mounting surface it won't take? Leave a comment on the model with the cord diameter. That is where the next size starts.

Clip them and forget them. — MakerX Designs · makerxdesigns.com · © 2026