



## Compact Low Profile 5v USB Type A Connector

W w531t4

[VIEW IN BROWSER](#)

updated 10. 2. 2022 | published 10. 2. 2022

### Summary

The slimmest way to pull 5v from a usb charger without soldering directly to the pins of the charger.

[Hobby & Makers](#) > [Electronics](#)

Tags: [plug](#) [usb](#) [compact](#) [connector](#) [flush](#) [lowprofile](#)  
[flat](#) [5v](#) [typea](#)

This plug significantly reduces the amount of space occupied by cabling when connecting to a usb charger (see pictures). When pushing in the 16 gauge copper wire, it should be tight. It helps to rotate the connector when applying pressure on the wire when inserting.

I printed mine w/ PETG @ 0.1mm layer height

for pins connecting to charger, i used 16 gauge solid core copper wire

[https://www.amazon.com/gp/product/B003B91BTG/ref=ppx\\_yo\\_dt\\_b\\_search\\_asin\\_title?ie=UTF8&psc=1](https://www.amazon.com/gp/product/B003B91BTG/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1)

for the wire, i used 30 gauge silicone wire.

[https://www.amazon.com/gp/product/B01KQ2JNLI/ref=ppx\\_yo\\_dt\\_b\\_search\\_asin\\_title?ie=UTF8&psc=1](https://www.amazon.com/gp/product/B01KQ2JNLI/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1)

I sourced measurements for the connector from this:

<https://grabcad.com/library/usb-a-plug-1>

## Model files



usb\_plug-main-2022-02-10-16-22-11.stl

## License ©

This work is licensed under a

[Creative Commons \(4.0 International License\)](https://creativecommons.org/licenses/by-nc/4.0/)



**Attribution-NonCommercial**

- 
- ✗ | Sharing without ATTRIBUTION
  - ✓ | Remix Culture allowed
  - ✗ | Commercial Use
  - ✗ | Free Cultural Works
  - ✗ | Meets Open Definition