



Customizable cable organizer



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updated 18. 4. 2026 | published 18. 4. 2026

Summary

Tired of tangled wires and cables? With this cable organizer you can be sure to always keep your cables in order.

[Household](#) > [Office](#)

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Introduction

Tired of tangled wires and cables and looking for a way to solve the mess? Seek no more!

This customizable cable organizer can be fitted to almost any cable with just a few and easy measurements.

With this cable organizer you can be sure to always keep your cables in order.

Why did I make this?

All of my cables used to be wrapped around themselves and thereby creating a possible mess of tangled wires. Therefore, I thought to myself that a 3D printer could bring me a solution. From then on, I came up with this design which I am very pleased with.

I also made a simple stand which, should be able to hold the cable organizers.

How to make your own cable organizer...

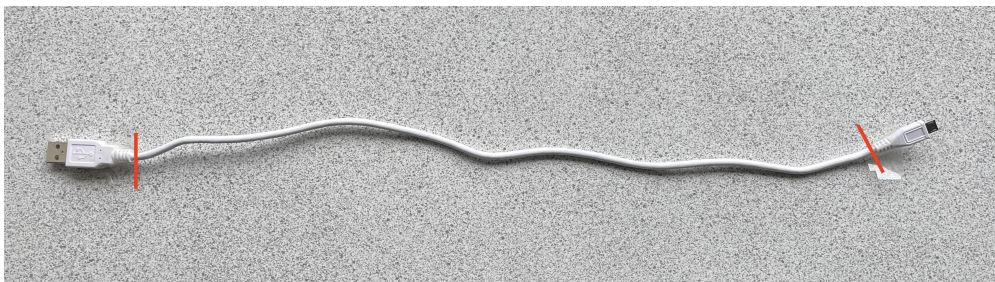
Note: To make your own cable organizer you will need Fusion360 or to use the customizer on [Makerworld](#).

[Fusion360](#) is available for free on [Autodesk.com](#) (for personal use only).

Since almost all cables are different, you need to do a bit of measuring of your cable.

You need to measure the following:

- The thickness of your cable in mm.
 - I did this by using a caliper and taking numerous measurements to correct any possible errors.
- The length of the cable in mm.
 - Be sure to measure only the cable length **without** the end plugs/connectors (as shown in the image below).
 - Keep in mind, that it is better to measure the cable too short than a little too long!



When you got the cable thickness and the cable length, you need to open the uploaded Fusion360 file and in the top menu choose Modify → Change parameters. Now a new window with parameters should pop up, in which you can enter the desired cable length and thickness (see the image below). The models should update automatically.

If you do not have access to a Fusion360 account or do not know how to operate Fusion360, feel free to reach out to me.

From then on, you can choose the model with the number of layers you want, however there are some limitations:

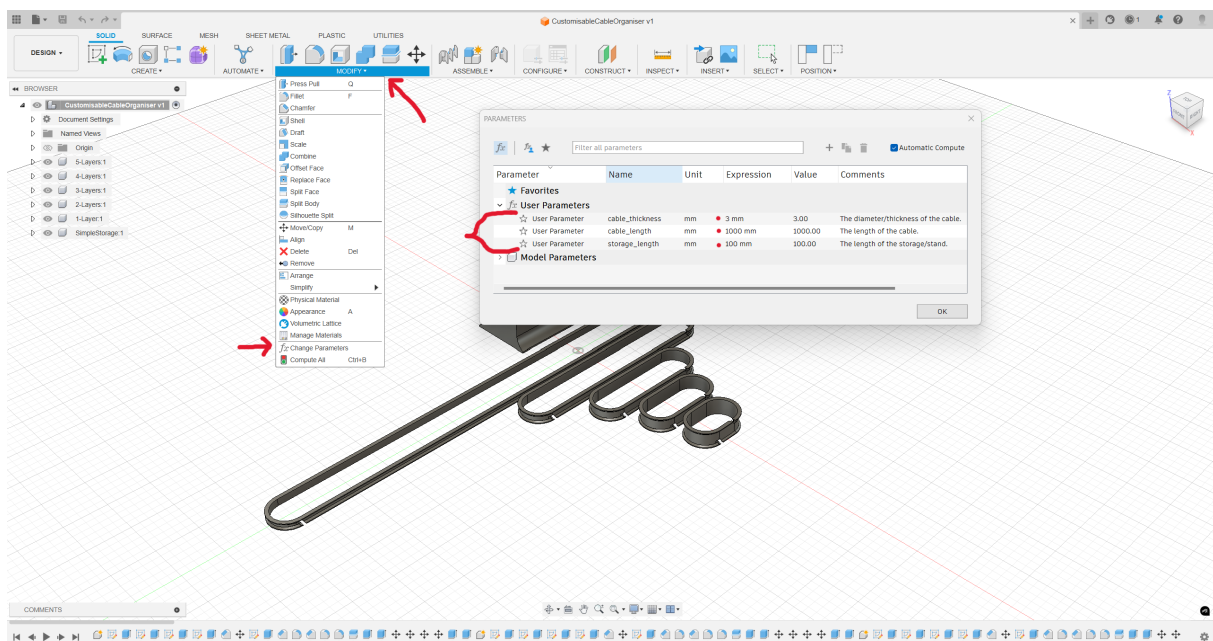
File: CustomizableCableOrganizer.f3d

- 1 layer = minimum cable length of 178 mm (17.8 cm)
- 2 layers = minimum cable length of 375 mm (37.5 cm)
- 3 layers = minimum cable length of 572 mm (57.2 cm)
- 4 layers = minimum cable length of 769 mm (76.9 cm)
- 5 layers = minimum cable length of 966 mm (96.6 cm)

File: Longer_CustomizableCableOrganizer.f3d

- 7 layers = minimum cable length of 1360 mm (136.0 cm)
- 10 layers = minimum cable length of 1951 mm (195,1 cm)
- 12 layers = minimum cable length of 2345 mm (234,5 cm)
- 15 layers = minimum cable length of 2936mm (293,6 cm)
- 17 layers = minimum cable length of 3330 mm (333,0 cm)
- 20 layers = minimum cable length of 3921 mm (392,1 cm)
- 22 layers = minimum cable length of 4315 mm (431,5 cm)
- 25 layers = minimum cable length of 4906 mm (490,6 cm)
- 27 layers = minimum cable length of 5300 mm (530,0 cm)
- 30 layers = minimum cable length of 5891 mm (589,1 cm)

Be sure to reach out to me if you got any questions about this process.



How to make your own cable organizer stand...

In case you want to use the simple stand, you need to know how long you want the stand to be, which is most likely the thickness of all the cable organizers you want to store in the stand.

Therefore, you need to measure the thickness of the organizers you want to store, and enter that value as with the cable organizers: Fusion360 → Modify → Change parameters.

Files

I have uploaded three files.

- A Fusion360 file that contains the different designs for the customizable cable organizers.
- A Fusion360 file that contains support for even longer cables.
- A .stl file which should work with an original Apple 1 meter cable. Tested with USB-A to Lightning.
- A .stl file which should work with an original Apple ~1 meter USB-C to USB-C cable.

Time to create your own cable organizers and tidy up the cable mess!

Feel free to post makes, leave a like, a comment or any questions you might have :D

Updates...

Update 07-11-2024

A new .stl file has been added. This one should work with an original Apple ~1 meter USB-C to USB-C cable.

Update 03-10-2024

Errors were found in both the normal and the long version of the Customizable Cable Organizer causing Fusion360 to destroy the model. The errors have now been fixed and new tested files have been uploaded.

Model files



1m_apple_5layers.stl

☐ Should work with an original Apple 1 meter cable. Tested with USB-A to Lightning.



apple_usb-c_4layers.stl

☐ Should work with an original Apple ~1 meter USB-C to USB-C cable.



customizablecableorganizer_fixed.f3d

📄 Fusion360 file. See the description for a guide on how to make your own cable organizer.



longer_customizablecableorganizer_fixed.f3d

📄 Fusion360 file (long). See the description for a guide on how to make your own cable organizer.

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