



DIY KIT GUIDE

Welcome to your DIY KIT GUIDE!

You are now the owner of a magnificent DIY DETACHABLE (or not) KIT.

Here, you will find all the steps to follow to have a self-made cable, crafted by you. If you have any further question, please ask it via the contact form on my website or by email at contact@katkoil.com

For the future, I am planning to do some short videos to show you the process. In meantime, there's a lot of videos you can find on youtube, that explains step by step all the process, which should help you.

Thank you for your trust and enjoy the experience ✨

I. SLEEVE

To sleeve correctly, you will have to do a push/pull action. First, make sure there are no wires sticking out of the cable, unless it will rub onto the paracord and make it harder to sleeve. The cut must be clean. Then, push a little bit of cord onto the cable and start the push/pull mechanism.

Then, tape the end of the paracord on the cable to be sure it won't go away when sleeving techflex. Do the exact same process for techflex that you previously done for paracord. It should be way easier.

II. CUT

Next, you can cut the sleeved cable to the chosen length. If you want to make a coil, please refer to the spreadsheet below. Those measures are the one I am using to craft custom and ready-made coiled cables, following the tools I have. If you have other diameter tools, please adjust the length.

Want a :	With a :	It requires :
6" Coil (15cm)	3/8" diameter	5 feet of cable
6" Coil (15cm)	1/2" diameter	6 feet of cable
8" Coil (20cm)	3/8" diameter	5,5 feet of cable
8" Coil (20cm)	1/2" diameter	6,5 feet of cable)

Now, it's time to strip the cable jacket. Use a wire stripper to cut about 2cm of the jacket. Then, use it again to cut the jacket on each one of the four wires. You should strip jacket on 1/3 of each wire. Twist the conductors to have neat braids. Then, tin the conductors and move to the soldering part.

III. SOLDER

After sleeving and cutting at the chosen length, it's now time to solder. Usb-c, mini usb and micro usb are following the order below:

G	BLACK
D+	GREEN
D-	WHITE
VBUS	RED

Please keep the insulation out of the soldered joint. Then, put on the shell of each connectors and tighten the clamps.

Apply the heat shrink on each connector's shell. For usb-a, you will need to stretch a bit the heat shrinks with a needlenose plier. You can cut a bit the heat shrinks if you want.

For usb-a, I am using a 40mm heat shrink.

For mini, micro and usb-c, a 35mm.

Using a heat source, keep the heat moving around the heat shrink so it will tighten evenly. Remain at a 5-10cm distance.

For GX16 and YC8, little numbers are written next to each pin. To solder them, you have to follow the order below:

1	BLACK
2	GREEN
3	WHITE
4	RED

For GX16, do not forget to add it sheath and the heat shrink on your cable before starting to solder, unless you will have to unsolder, put the parts you forgot and solder again.

IV. COIL

Take a rod with a decent dimension and start by tapping one side of your cable on it. Then, twist the cable on the rod and ensure you are putting enough pression on it to have the tightest coil possible.

Then, tape the other end. You can add a cable clamp on the tape to ensure your coil will not lose its coiled form.

Use a heat source of your choice. It could be a heat gun or heat from your oven. For the oven heating, do not go over 90 degrees and an hour baking.

You're done! You can admire your work. Is it the first time you were doing it? If yes, congrats, you made it! Hope the result looks good, and if not, don't be sad. Practice makes it perfect ✨