

# Tech Dummy



All Credit to Google  
and my MAC

## ***Replace your helmet to Radio wires with a USB Connection***

One of the most frustrating part of PPG is the communication. Almost every pilot some time during his flying career experience problems with communication. Most of the time it is related to bad connection between radio and helmet. We found that the USB connection helps from pulling on the radio connector.

You will need the following:

1. Std Vertex radio connector (can buy it from Comit Aviation)
2. 1.5m USB extender cable
3. heat shrink

What to do:

1. Cut the USB cable, 1m from the male connector
2. Cut the USB Cable, 200mm from the female connector
3. Strip the wires on the male side cable at least 100mm
4. Strip the wires on the female side of the cable at least 40mm
5. Strip the wires on the Vertex connector 40mm long
6. Connect the wires on vertex connector to the USB female connector
  - a. Green/Screen(USB) to the screen wire on Vertex cable (both screens)
  - b. Black on Black, Red on Red, White on white
7. Connect the male USB cable to your Helmet.
  - a. Green/Screen(USB) to ground wire (PTT, Mic and Speakers common)
  - b. Black on Mic
  - c. White on Speakers (Speakers in parallel configuration)
  - d. Red on PTT (More than one PTT in parallel configuration)

AND TEST!

Note:

1. Some radios do not work with a common Ground
2. Some radios also do not work with a simple Normally open PTT button

Please feel free to contact me for more advice