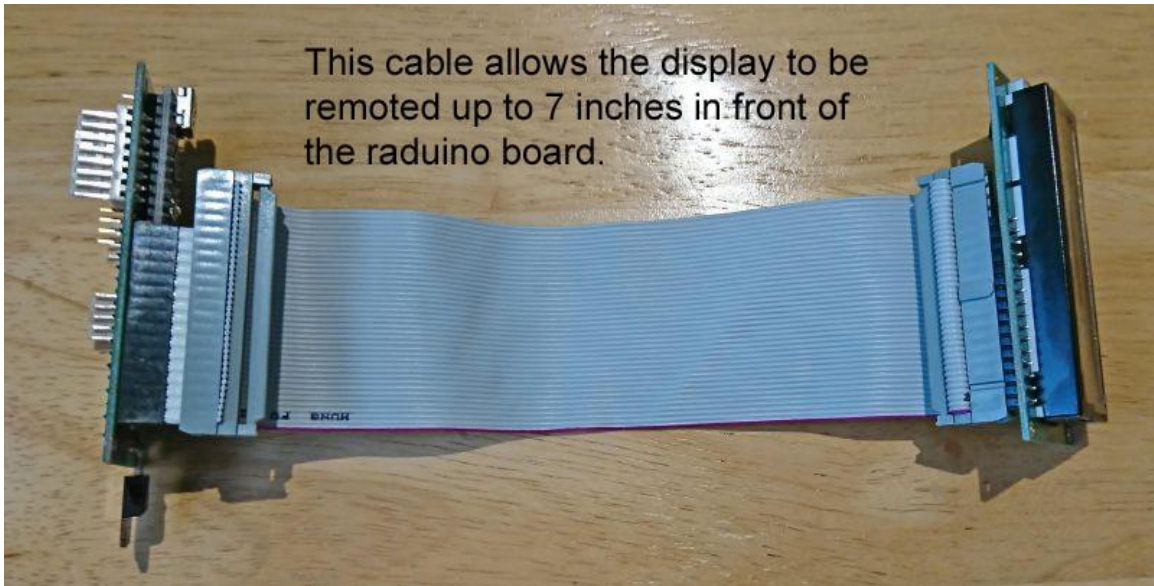


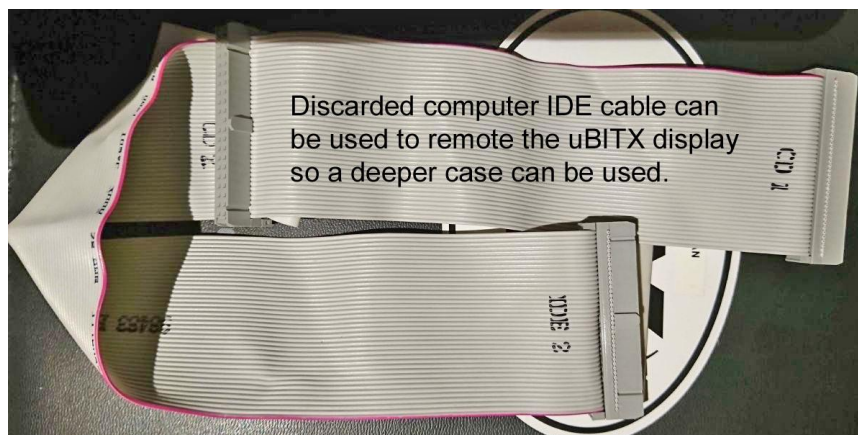
uBITX Display Separation Cable

Al Duncan VE3RRD

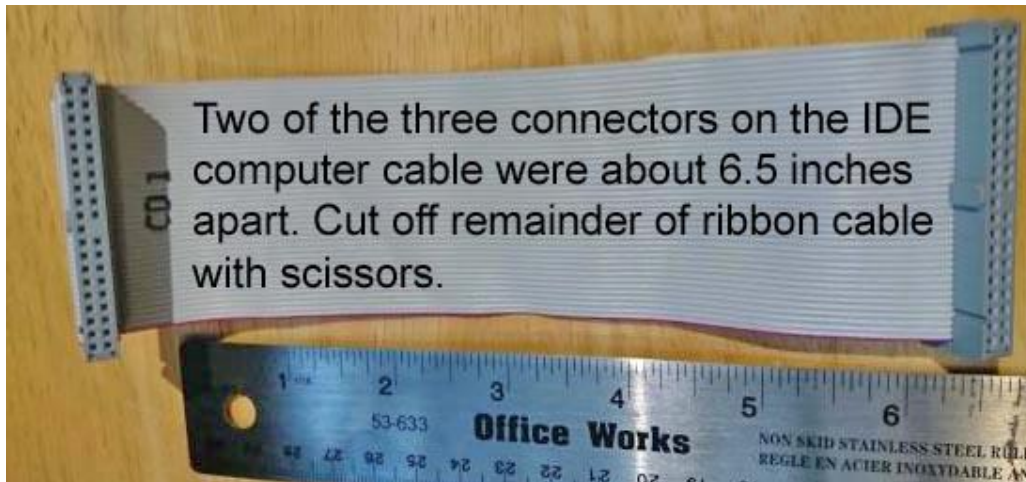


Unlike the BITX40v3 design; on the uBITX, the raduino board must remain plugged into the main board so that connections are kept as short as possible. If you are using a long enclosure and wish to mount the main board at the rear so that the two IRF510's can use the rear metal enclosure end as a heat-sink (using proper TO-220 transistor insulation kit), then you will need to move the LCD display forward while leaving the raduino attached to the main board.

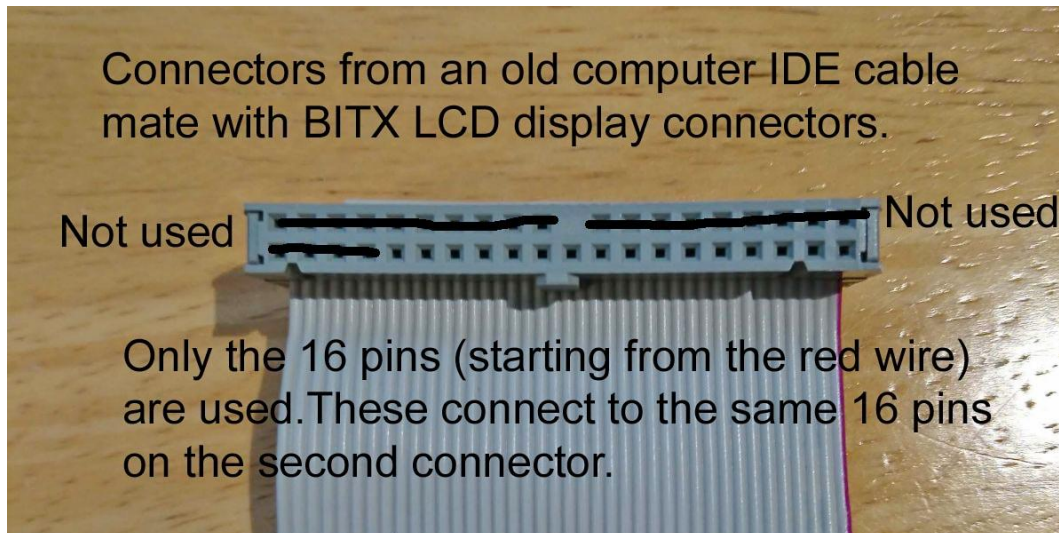
I found that a discarded computer IDE cable (with the three 39 pin connectors) will mate with the LCD board. The cable I used was labeled for connecting two CD ROM drives, and the two connectors closest together were kept with the remaining ribbon cable and connector cut off.



The two connectors I used were labeled CD1 and CD2



I used an ohmmeter to verify connectivity between the two connectors and found that the 20 pin row of one was wired to the same pins on the second connector.



Use "Liquid Tape" or something to insulate the ends of the ribbon cable wires that were cut off so they can't accidentally make contact with anything.

This cable design will permit a separation distance of from about 1-1/8 inch to about 7 inches. If less than about 1-1/8 inch is needed, then a different solution is needed. The two ribbon cable connectors and the "gender changer" prevent the two circuit boards from being mounted any closer.

Testing for this cable was done using the BITX40v3 raduino and LCD display.

Push pins through white plastic piece until there are approximately equal lengths of pin on each side.

Install into the 16 connector positions starting from the ribbon cable red wire. This end of the separation cable will plug into the raduino board.

Header pins with 2.5 mm spacing and approximately 15 mm length.



Since both connectors on the ribbon cable are female type, a “gender changer” is required at one end to plug into the raduino board.

