

Tips for building the SCI-6 kit to connect to a Baofeng HT to a computer for packet radio
by Vann Chesney AC4QS August 25, 2021

Unified Microsystems SCI-6 Kit:

Source:

Shipping is cheaper when you order directly from Unified Microsystems but it is more likely to be in stock at DX Engineering. Order both the SCI-6 kit and the RCA phono cables.

Unified Microsystems SCI-6 direct (order kit and cable set):

<https://www.unifiedmicro.com/sci6.htm>

DX Engineering:

<https://www.dxengineering.com/parts/ums-sci-6>

<https://www.dxengineering.com/parts/dxe-dcb-36>

Manual:

<https://www.unifiedmicro.com/SCI-6-Manual.pdf>

Mods:

<https://www.unifiedmicro.com/SCI-6-FAQ.pdf>

Baofeng mic cable:

<https://www.ebay.com/itm/254692108701?hash=item3b4cd5299d:g:Ue8AAOSwMQBfOxgS>

USB to RS-232 converter (with DTR and RTS):

https://www.amazon.com/dp/B092LYRRZN?psc=1&ref=ppx_yo2_dt_b_product_details

I found that when I built and tested this kit the output was too low for the Baofeng to make packet radio contacts. I fixed this by changing resistor R2 (see manual for schematic) from 100k to 10k ohms. For more information on this see above link to SCI-6 Mods. I could not find an inexpensive source for a single resistor so the links below are for a 600 resistor kit containing 20 10k resistors or if you prefer a pack of 100 10k resistors. Ask other hams and they might have a few spares for free.

10k Ohm 1/4 Watt Resistors:

Resistor kit

https://www.amazon.com/Resistor-Assortment-Kit-Thermistor-Photoresistor/dp/B0792M83JH?ref=ast_sto_dp

10k ohm resistor

https://www.amazon.com/Resistor-Tolerance-Resistors-Limiting-Certificated/dp/B08QRJZ82J?ref=ast_sto_dp&th=1

USB sound card if needed:

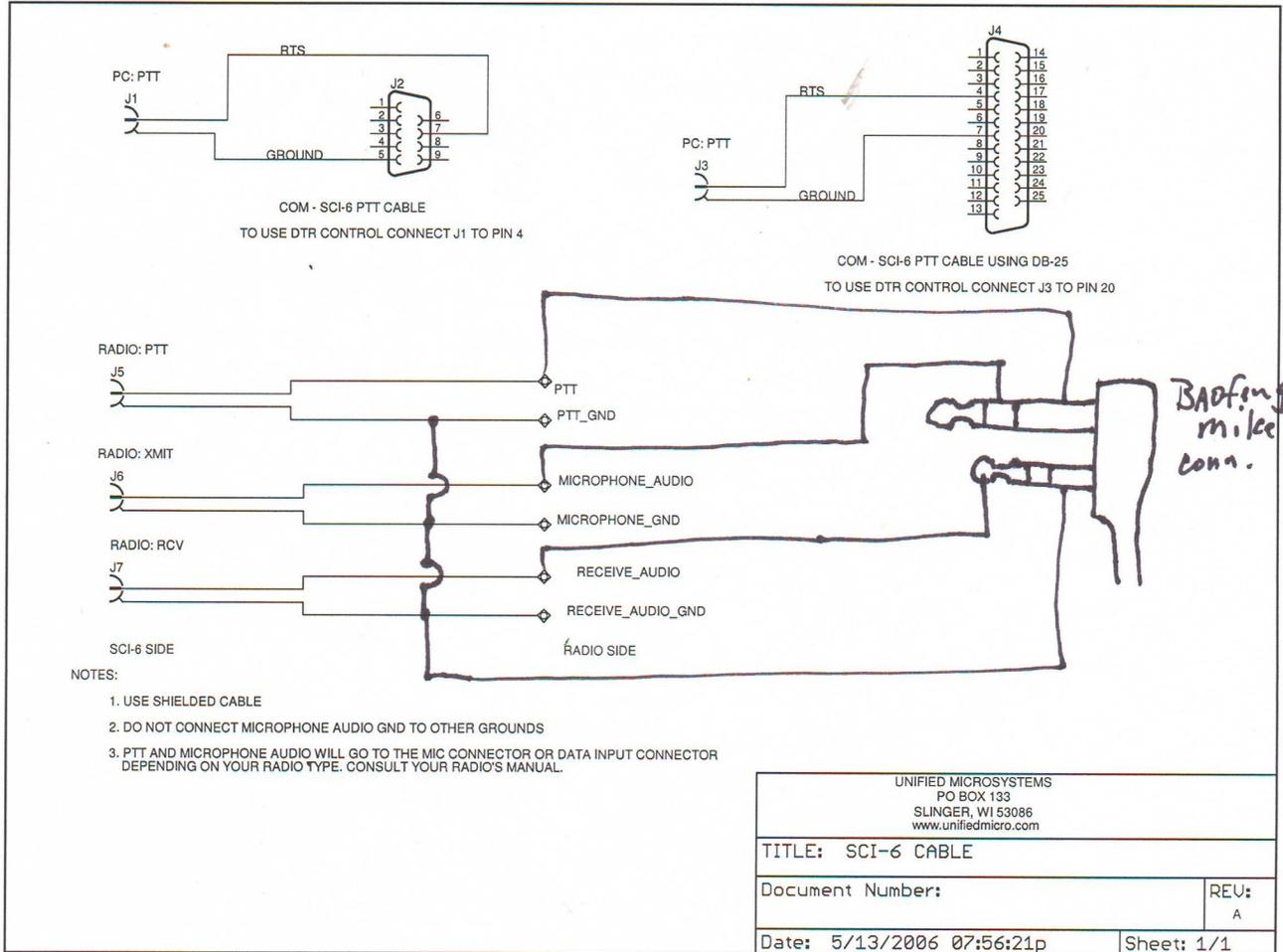
https://www.amazon.com/dp/B00IRVQ0F8?psc=1&ref=ppx_yo2_dt_b_product_details

Clip-on Ferrite Ring Core RFI EMI Noise Suppressor if needed:

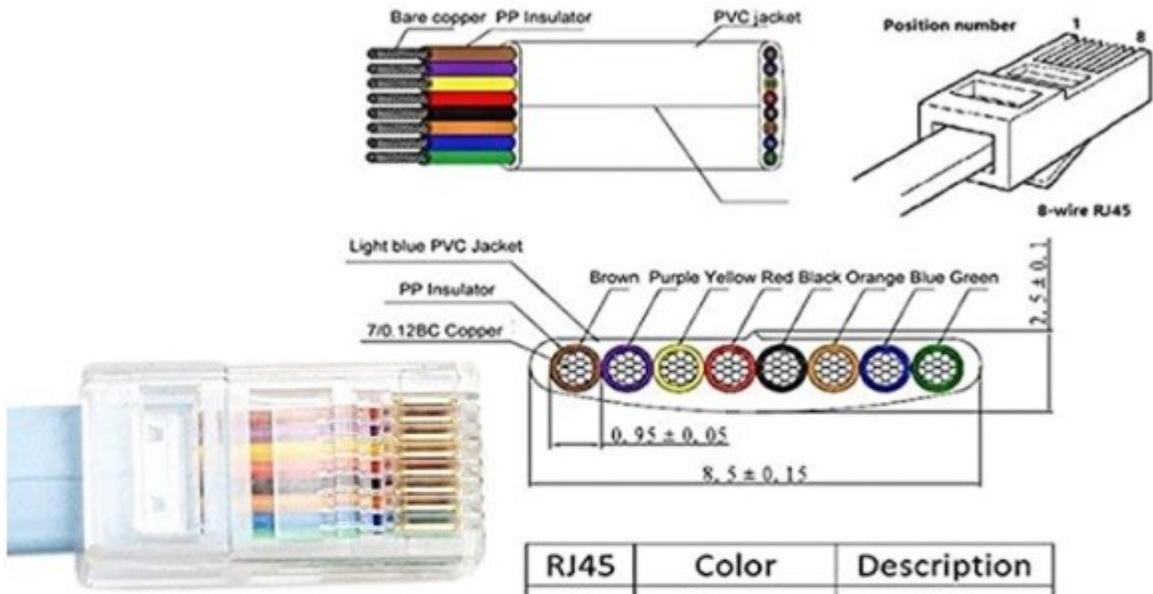
https://www.amazon.com/dp/B01E5E5IY4?psc=1&ref=ppx_pop_dt_b_product_details

SCI-6 Connections

Dathuil Cable:
 Pin 4 (Red) or Pin 5 (Black) → GROUND SCI-6
 Pin 8 (Green) → RTS SCI-6



Dathuil Console Cable



RJ45	Color	Description
1	Brown	CTS
2	Purple	DSR
3	Yellow	RXD
4	Red	GND
5	Black	GND
6	Orange	TXD
7	Blue	DTR
8	Green	RTS