

Homebrew Yaesu FT-857/897 CAT Cable for front RJ45 Microphone Port

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1. CAT CABLE FOR YAESU 857/897 MIC PORT INTERFACE

The instructions below outlines steps to follow in order to build a CAT cable to interface your Yaesu rig with a PC/Laptop via the front RJ45 microphone port should the rear CAT port not be available or accessible.

A 5V FTDI USB interface (TTL-232R-5V-WE) which is readily available from electronic outlets across the world is used.

2. TOOLS REQUIRED

- ✓ RJ45 Crimping Tool
- ✓ Small Sidecutters

3. BILL OF MATERIALS



Qty	Supplier	Code	Description
1	RS Components	TTL-232R-5V-WE	USB to TTL Serial Cable (5.0V)-1.8m Wire End Version
1	RS Components	RJ45	RJ45 8 Way, 8 Contact Modular Data Plug
1	RS Components	RJ45 Boot/Hood	Protective Hood for RJ45 Plug (Optional)

4. ASSEMBLY INSTRUCTIONS

- Place the RJ45 boot over the open wire end of the cable.
- Only the Black(GND), Orange(TXD) and Yellow(RXD) wires on the FTDI USB to TTL serial Cable are required in order to successfully interface to your Yaesu.

- Cut off all wires except for the three required (Black,Orange,Yellow), The cut wires may be covered with a small piece of heat-shrink to ensure they are isolated.
- The pin assignment for the Yaesu Mic socket CAT interface on the rig is as follows:
 - Pin # 1 = TXD
 - Pin # 2 = RXD
 - Pin # 3 = GND
- Insert the Yellow(RXD) wire of the FTDI Cable in the RJ45 corresponding to Pin #1, the Orange(TXD) cable in Pin #2 and the Black Cable in Pin #7 and crimp the RJ45 with a crimp tool. Refer to the picture below for pin assignments on the RJ45 plug.



5. PC DRIVER INSTALLATION

- Before inserting the USB cable in your PC, ensure the correct FTDI VCP Driver for your operating system is downloaded and installed.
- The latest FTDI VCP Drivers may be obtained from the following URL:
<http://www.ftdichip.com/Drivers/VCP.htm>

6. RIG SETTINGS

Ensure the Microphone port CAT interface is enabled by selecting "CAT" In Menu No 59 [MIC SEL]