



USB to TTL Cables

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TTL Connector Pin-out and Color Scheme

- The USB installs into your PC's USB port and installs as a COM port and will convert USB/Serial to TTL bidirectional. Virtual COM port (VCP) drivers cause the USB device to appear as an additional COM port available to the PC. Application software can access the USB device in the same way as it would access a standard COM port.
- This is ideal for connecting your TTL microcontroller serial communications to the PC. Today's computers typically do not have RS232 ports on them anymore, this solves that issue by providing you a virtual COM port using the common USB port.
- Easy to install. The drivers can also be downloaded from the FTDI site.
<http://www.ftdichip.com/Drivers/VCP.htm> For first time installs it will install 2 drivers before its ready to operate. You should only need to do this once per PC. Once installed you can remove and reinsert the cable without having to install the drivers each time. Goto to your device manager to determine what COM port was used. Its typically the next available COM port on your PC.
- Programmable data rates up to 2 MBaud and all handshake lines are supported.
- The cable gets its power from the USB port. We also bring out a 5V supply capable of driving up to 250mA. If you pull more than 100mA the cable will be damaged and irreparable.
- The wire colors are these cables are NOT the same as our RS232 Cables. The wire colors are as follows:
 - Red: 5 Volt output (max 100mA)
 - Black: Ground
 - Yellow: TTL to PC
 - Green: TTL from PC
 - Orange: Ready to Send
 - Brown: Clear to Send
- The TTL plug is a non-directional 6 pin Molex connector with 0.1" spacing. The pins can be easily re-arranged to suit your device or you can cut the ends and put your own connector on it. (If you modify the plug, returns will not be accepted.)
- The USB end of the cable contains a compact circuit board inside the housing. The housing 0.8" wide, 0.44" thick, 1.8" long (not counting the USB plug)
- All cables are tested prior to shipping.

- Schematic for Standard USB to TTL Cable

