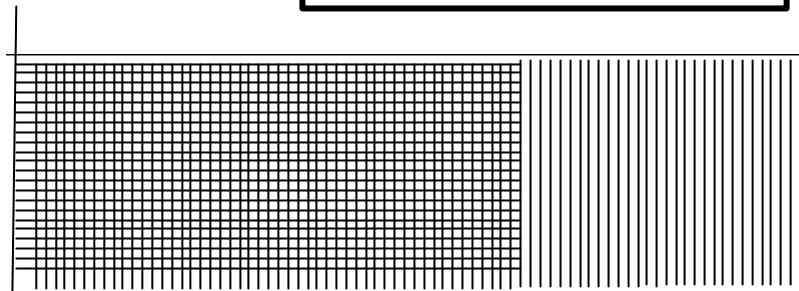


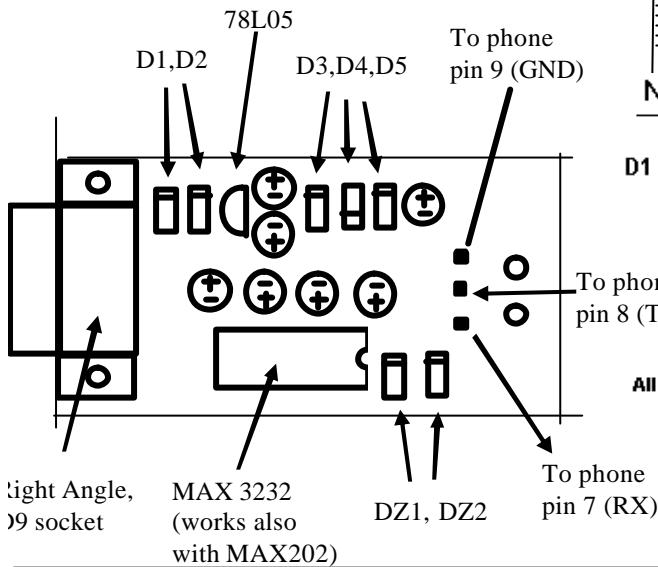
PCB (will print at 1:1) by:

rbtx99@fnmail.com

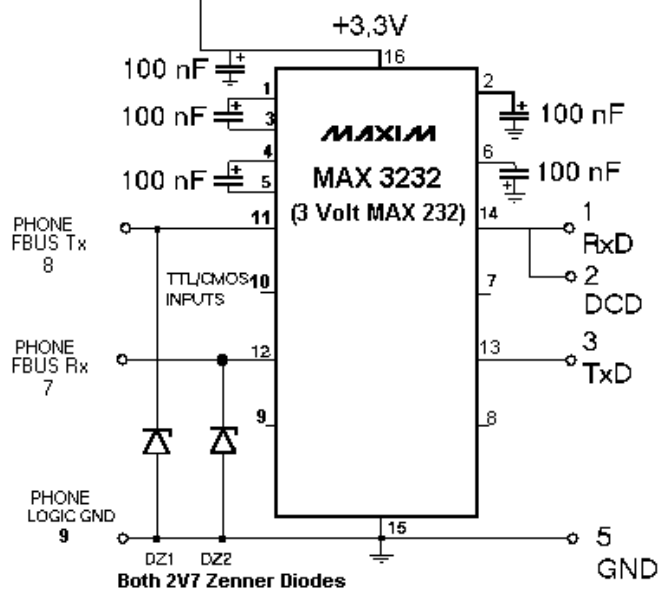
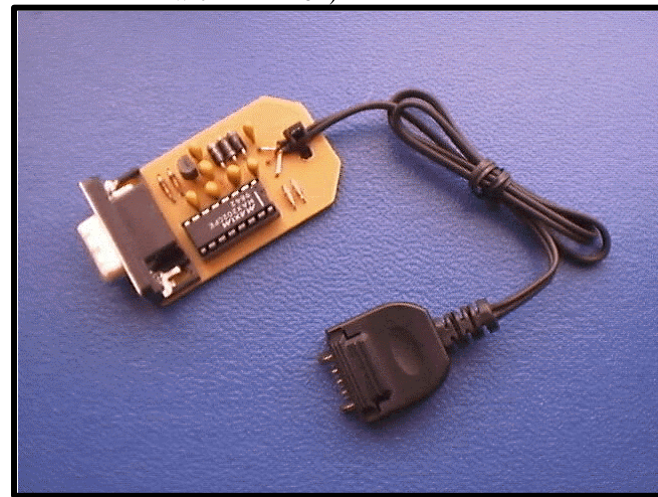
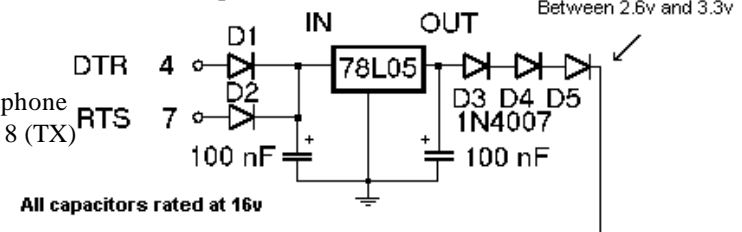
The rest of the information is obtained from various internet sources.



Nokia 6110 Cable for use with the Cellular Data Suite 1.2



D1 and D2 Schottky Diodes



The cable consists of four parts, the RS232 (DB9 Serial) connector, the 3.3volt power supply, the MAX 3232 IC and the phone connector.

The RS232 end supplies 12v via pins 4 and 7, through 2 (D1, D2) Schottky barrier diodes to a low power (500ma) 5 volt regulator, the 5v output goes through 3 diodes (D3, D4, D5), each of these diodes drops the voltage by 0.6v, so that about 3.3v is delivered to the MAX3232.

The MAX3232 is a 3volt version of the popular MAX232 TTL to RS232 convertor IC, that is used by a number of manufacturers for their interface cables. The 2V7 Zener diodes hold the TX and RX data lines to the phone at a safe maximum limit of 2.7volts. Note that the capacitor on pin 6 of the IC has it's +ve lead to ground.

The hardest part to get hold of might be the phone connector, you might have to utilise a hands free connector..

Notes

In practice the diodes D1 and D2 can be general purpose 1N4148 diodes, and D3, D4 and D5 can be 1N4001 diodes. The circuit should be built as shown. Be sure to check all solder joints and the orientation of components.

The above information should be more than enough for the electronic hobbyist to construct a working cable. If you find that it does not make much sense to you DO NOT ATTEMPT TO BUILD THE CABLE, it might save the life of your phone!