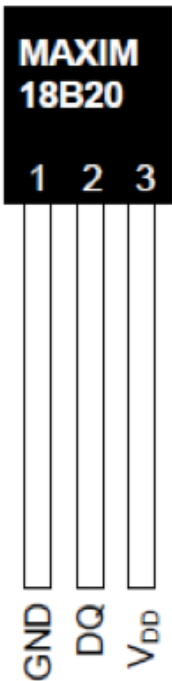


Maxim is the same as Dallas

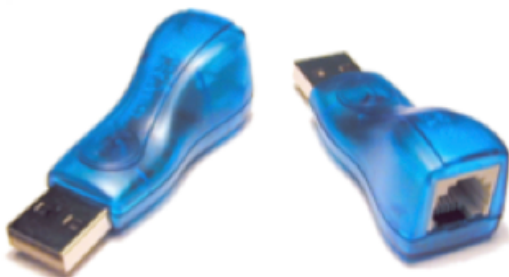
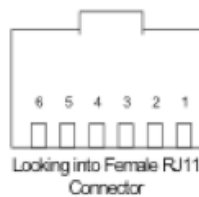


Join pins 1 & 3 on DS 18B20

The reason we are joining pins 1 & 3 is we are using the temperature sensor in it's Parasitic power mode. We can therefore place these temperature sensors anywhere on what is called a One Wire Network.

This sensor must be connected to the Blue Snail (Maxim DS 9490R#) RJ11 Female socket shown below. Note the Pin Numbers -- we will use only pic 3 & 4 of the blue Snail.

PIN	SIGNAL NAME	DESCRIPTION
1	V _{DD}	5VDC Output
2	GND	Power Ground
3	OW	1-Wire Data
4	GND_OW	1-Wire Return
5	SUSO	USB Suspend Output
6	N.C.	No Connection



So **all** of the DS 18B20's on our two wires network must be connect to pins 3 & 4 of our Blue Snail Rj11 socket connector. That means:-

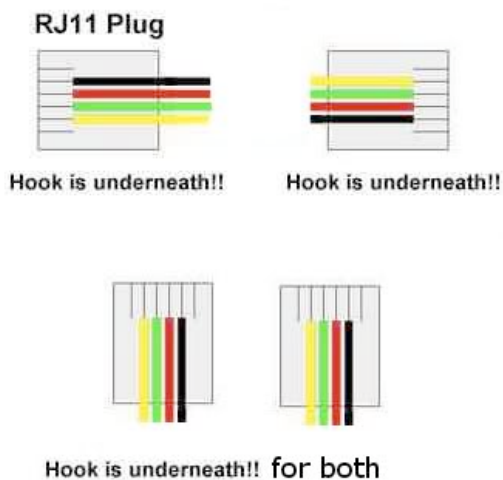
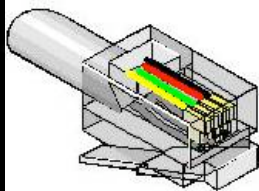
**(i) Pin's 1 & 3 of one or all the DS 18B20
need to be connected to
pin 4 (GND 1 wire-return)of the Rj11 socket of the Blue Snail.**

And

**(ii) Pin 2 of one or all the DS 18B20
need to be connected to
pin 3 (OW 1 wire-Data) of the Rj11 socket of the Blue Snail.**

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In order to do this we can use a standard Rj11 telephone cable. Notice this cable has an RJ11 plug on each end as shown in the picture below. Consider if we cut it in half in order to make two Rj11 to Ds 18B20 temperature sensor cables.



Notice: The Hook and although we only need to use the **Red** and the **Green** wires their positions may be reversed on some RJ11 cables.