

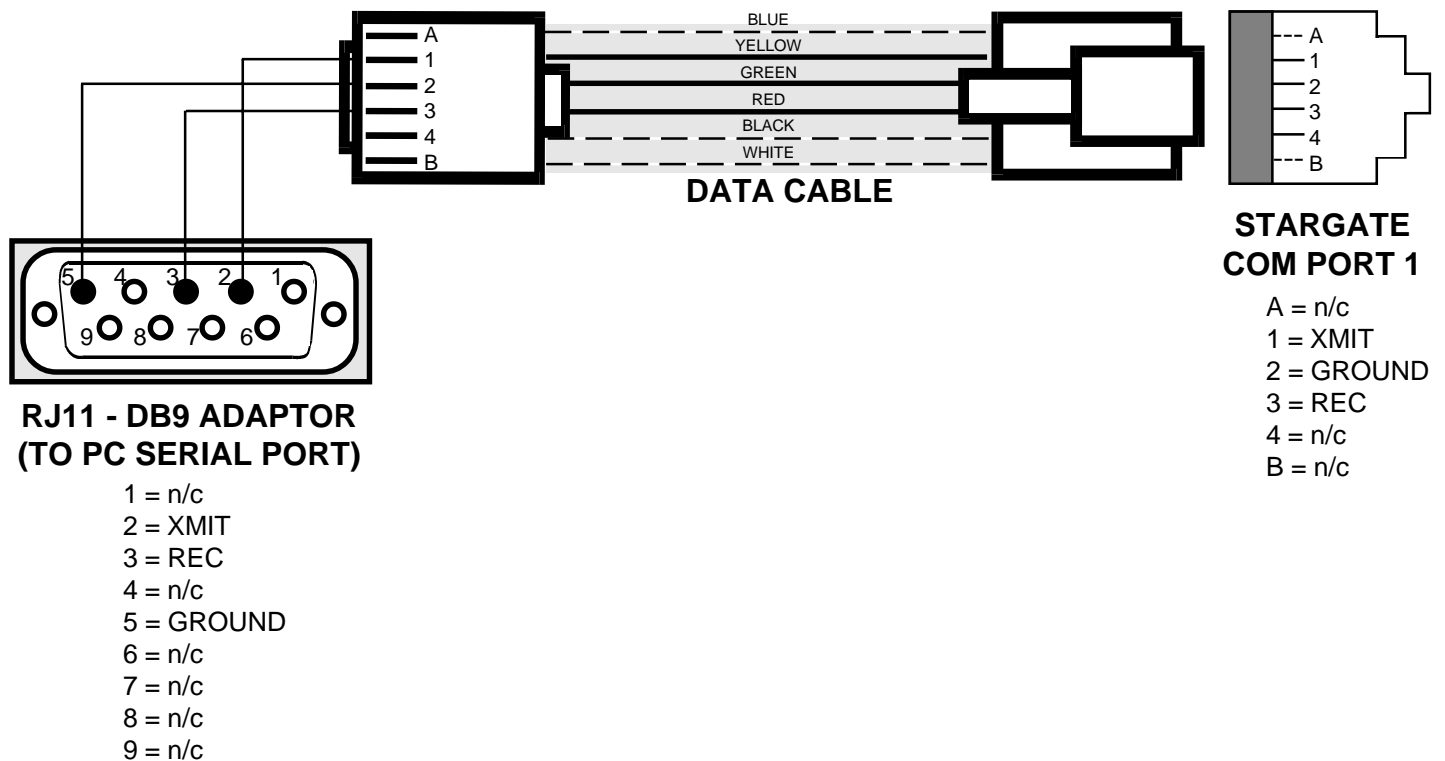
## **Application Note 6**

### **WIRING PINOUT OF STARGATE DATA CABLE AND ADAPTOR**

Communication from Stargate's COM port #1 to the PC requires 3 wires (Transmit, Receive and Ground). A 6-conductor DATA cable is provided with Stargate to distinguish it from a standard telephone voice cable; however, only 3 of the 6 conductors are used.

Stargate's COM ports have 6-position RJ-11 type jacks with pins installed in the inner 4 positions ("1", "2", "3", "4"). The outer two pin positions ("A" and "B") are vacant. (See figure below)

Stargate's TRANSMIT pin ("1") connects to pin 2 of the DB-9 PC SERIAL PORT connector.  
Stargate's GROUND pin ("2") connects to pin 5 of the DB-9 PC SERIAL PORT connector.  
Stargate's RECEIVE pin ("3") connects to pin 3 of the DB-9 PC SERIAL PORT connector.



Stargate's COM #1 has a fixed baud rate of 9,600. Stargate's COM port #2 and #3 are wired the same as COM port #1 but can be set to various baud rates from 300 - 19,200 to accommodate connections to third-party devices such as thermostats, alarm panels, pool/spa controllers, etc.

Devices with DB-9 connectors intended to communicate to a PC will have a similar pinout as Stargate's DB-9 adaptor. In order to establish communication between the device and a Stargate COM port, a NULL adaptor may be required. (A null adaptor simply reverses the XMIT and REC connections.) The XMIT of Stargate must connect to the REC of the third-party device and the REC of Stargate must connect to the XMIT of the third-party device. Null adaptors are available at Radio Shack and most computer stores.