Number description according to figure schematic of setup

See photos of images of the connectors

1. RS232 connection Arduino to Keithley
2. RS232 connection Arduino to Switch Network
3. RS232 connection Switch network to Switch network
   * N.B the battery powered switch network must be the one connected to the Arduino
   * N.B. one switch network has battery missing
4. RS232 connection Arduino to trigger input of Biosemi/ActiChamp
   * N.B This cable has been made for Biosemi
   * Trig1 should connect to master Arduino (Arduino controlling depth electrodes)
   * Trig2 should connect to slave Arduino (Arduino controlling cortical electrodes)
5. Trigger cable from master Arduino to Keithley
6. Trigger cable from slave Arduino to Keithley
   * Made from jumper wires
   * In Arduino is should connect to ??? on Phase MK for stim pins (see photo arduino\_slave\_trigger\_connection.jpg)
   * In keithley should connect into trigger port 2 (see photo keithley\_slave\_trigger\_connection.jpg)
7. Dsub cable from Switch Network to Biosemi/ActiChamp
8. Dsub cable from battery box to Biosemi/ActiChamp
   * N.B. If you are using Biosemi important that channels 33-37 are not connected through from battery box to Biosemi as it switches Biosemi off
   * Use these dsub adaptors
9. Switch network to cortical electrode connector
10. Switch network to electrode adaptor board – current injection connection
11. Battery box to electrode adaptor board – recording connection
    * Connects through plexon headstage (HST/32o25-GEN3-36P-G1) and neuronexus headstage adaptor (A32 to OM32)
12. Touchproof to touchproof connection between 0V of two battery boxes
13. Touchproof to crocodile connection between 0V of battery box and Biosemi/ActiChamp ground
    * N.B If you are using ActiChamp and you need to specify a reference channel for Brainvision
    * Open up battery box 1 and connect the green jumper wire to the channel you want to use as reference. In example (battery box junper wire.jpg) green jumper is connected to channel 11
    * This connects the 0V of battery to the reference pack (equivalent to connecting reference and ground together)
14. Ground connection out of ActiChamp/ Biosemi
    * For Biosemi connect white and green crocodile together
15. Ag/Ag-Cl reference connector to back of neck of rat
16. Connection from Keithley to switch networks controlling depth electrodes
17. Connection from Keithley to switch networks controlling cortical electrodes
18. Trigger connection from master Arduino to whisker controller
19. Connections from 60 V power supply to whisker controller
20. USB connections from whisker stimulator, master Arduino, slave Arduino and Biosemi/ActiChamp to computer