Connecting Cables for behavior measurements

1. IMU/Thermocouple Amp to computer
   - Connector wire
   - 16 pin SMT header (correct)
   - TO IMU
   - 4 pin header to Therm-Amp

2. Connector to sensor IO
   - Ribbon cable
   - 14 pin DB TO IMU IO BOX
   - Shielded ribbon cable
   - 9 pin DB TO RACK POWER ADAPTOR

3. Sensor - RACK power Adaptor (see also specs for Thermocouple Amp & Hall Sensor Amp)
   - 9 pin DB
   - BNC (orange) used for thermocouple amp output and Hall sensor amp output
   - BNC (purple) used for Hall sensor
   - Banana GND (black)
   - Banana +5V (red)
   - Banana +15V (yellow)
   - Banana -15V (white)

4. Hall effect sensor cable (does not go through computer)
   - TO RACK AMPS/FILTERS
   - Connector wire
   - 6 pin TO Heated Hall Sensor Amp
5) Thermocouple to Rack Hardware

TO sensor - rack power adapter BNC (orange)

3) BNC

TO RACK AMPS/FILTERS

6) Rack Hardware to BNC

RACK AMPS/ FILTER OUTPUT

BNC CH 1

CH 8

7) IMU Control Box

TO Comm 50

DC Power 12 V

BNC outputs for each IMU channel

8) Commutator

25 Pin DB

25 Pin DB to 1
For IMU + Thermocouple Measurements:

- IMU Box
- Web Cam
- Commutator 8
- Pulley
- Ring + Counterweight
- Raised Platform
- BNC on DAQ System
- TO RACK
  - AMP/FILTERS
  - 3x 1/3 - 300 Hz
- TO BNC on DAQ System
- TO Rack Power

For IMU + Hall Effect Sensor Measurements:

- IMU Box
- Web Cam
- Commutator 6
- Pulley
- Ring + Counterweight
- Thrm. Amp Connectiv Not Used
- TO IMU Givah
- Raised Platform
- BNC1
- BNC2
- TO Rack Power
- Directly to DAQ