

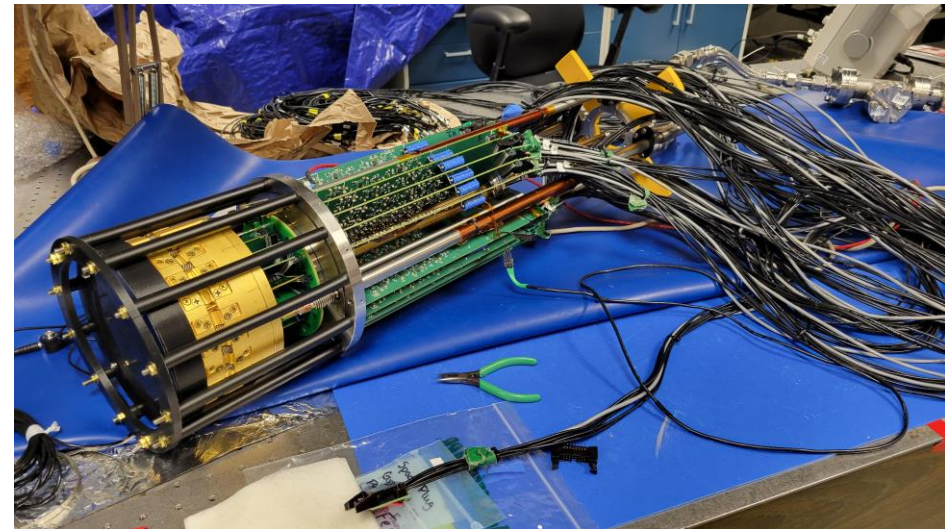
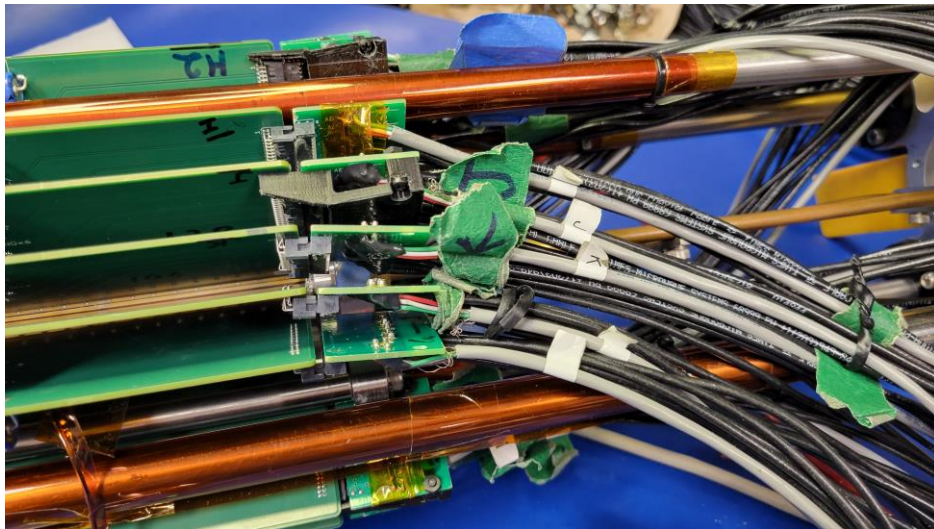
# Connector Improvements

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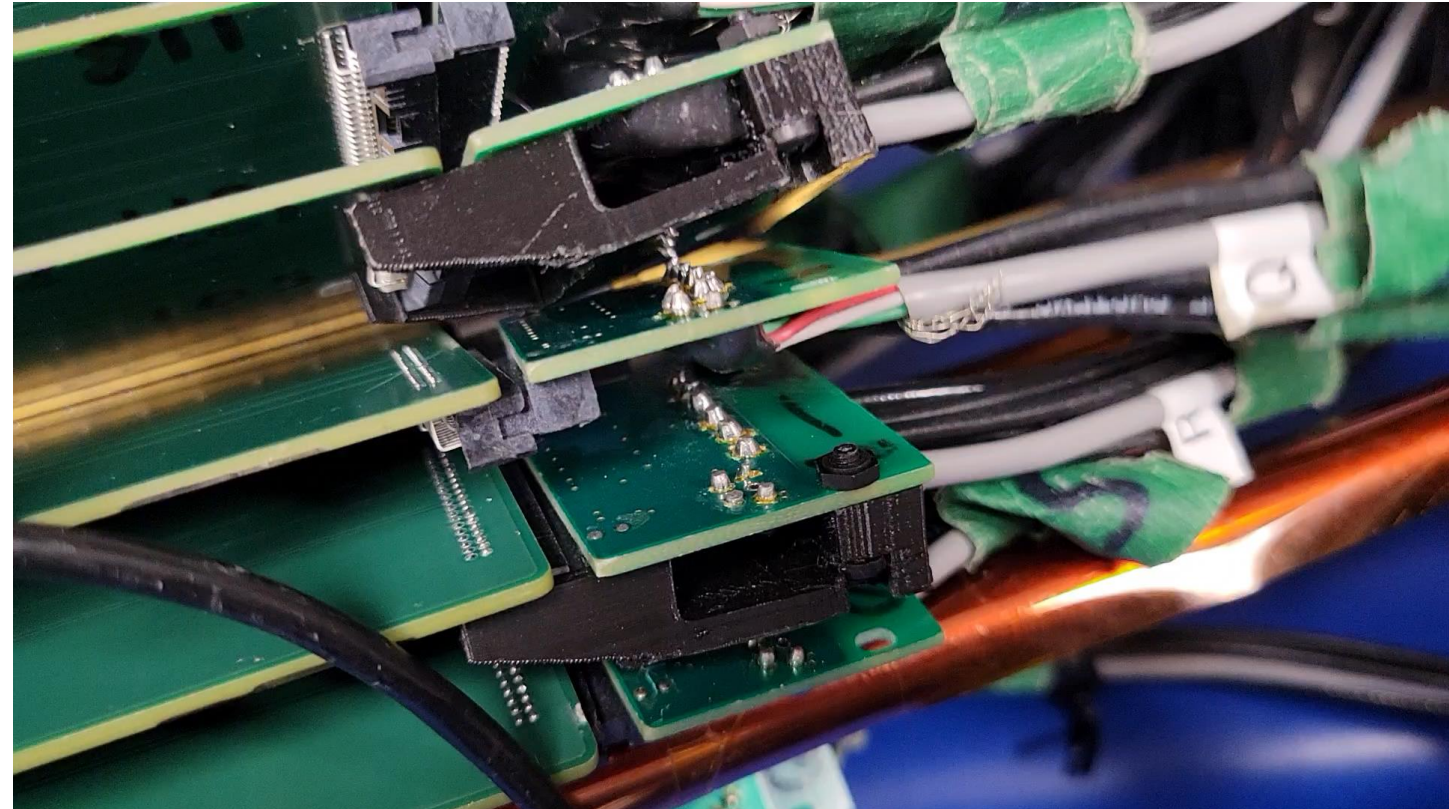
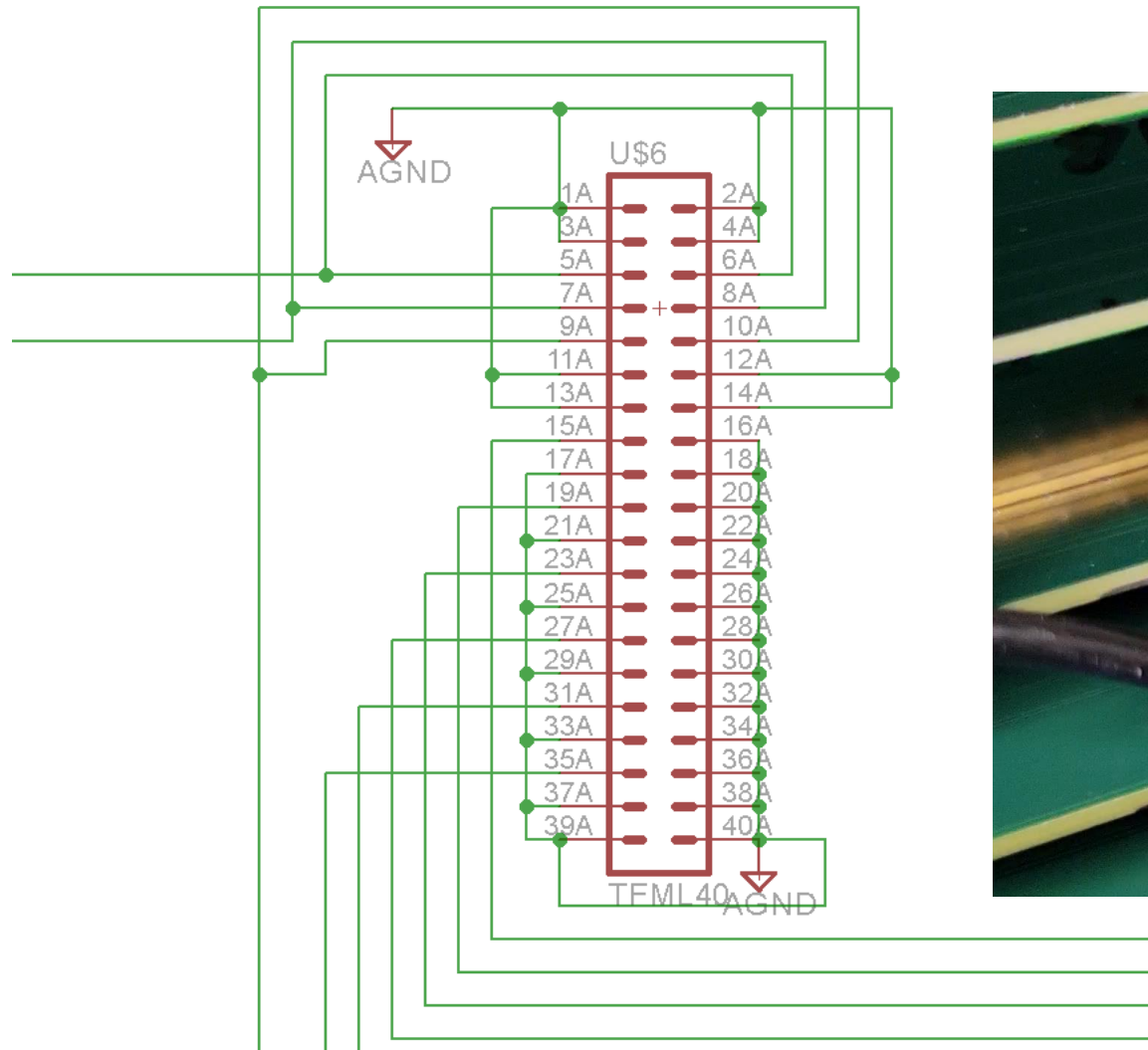
# Connector Improvements are required

- Connectors have severe retention issues
  - Fall out easily
  - Slight movement causes partial or complete disconnection
  - Hard to put in for installers
- Connector is not appropriate for the signals
- Need to change to a connector or cabling that is more robust

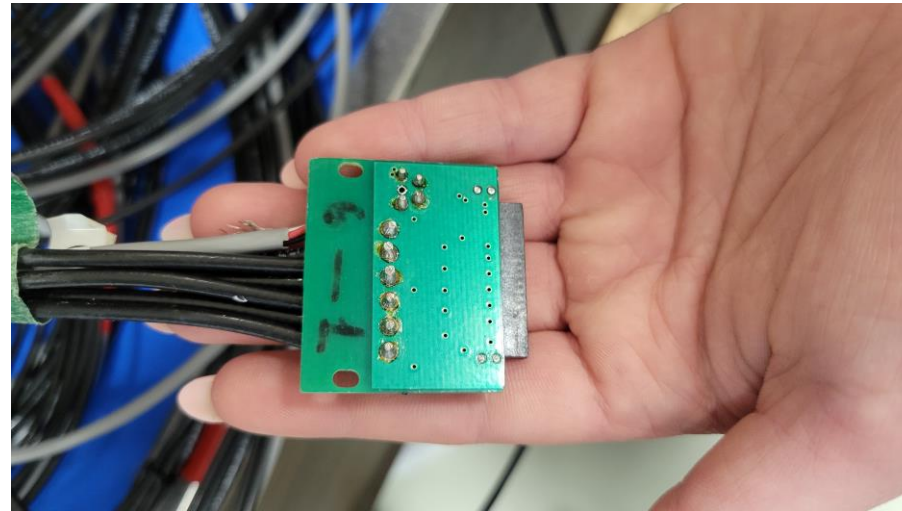
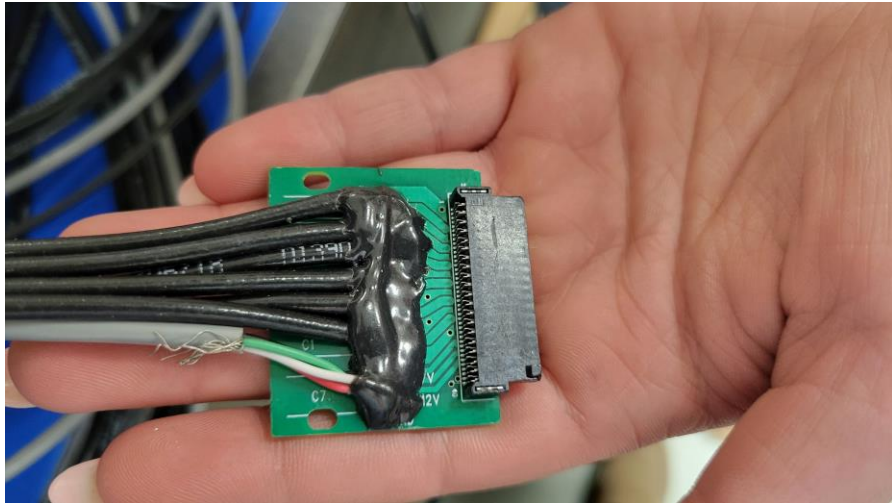




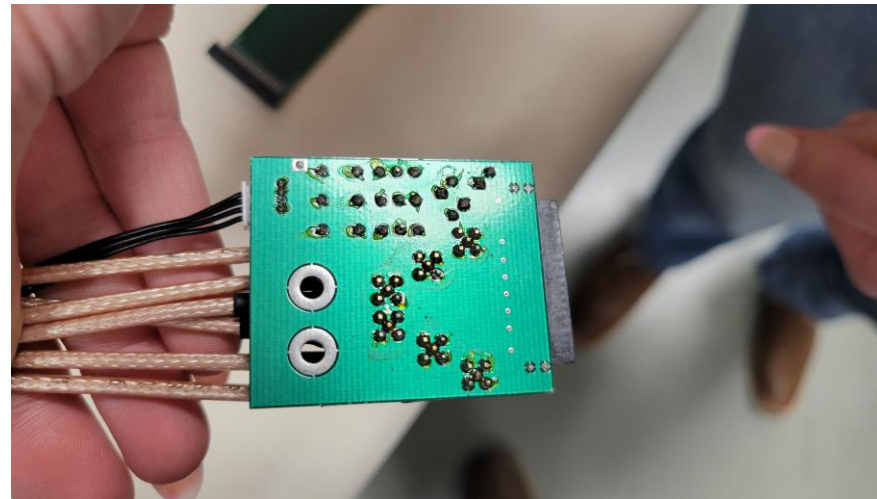
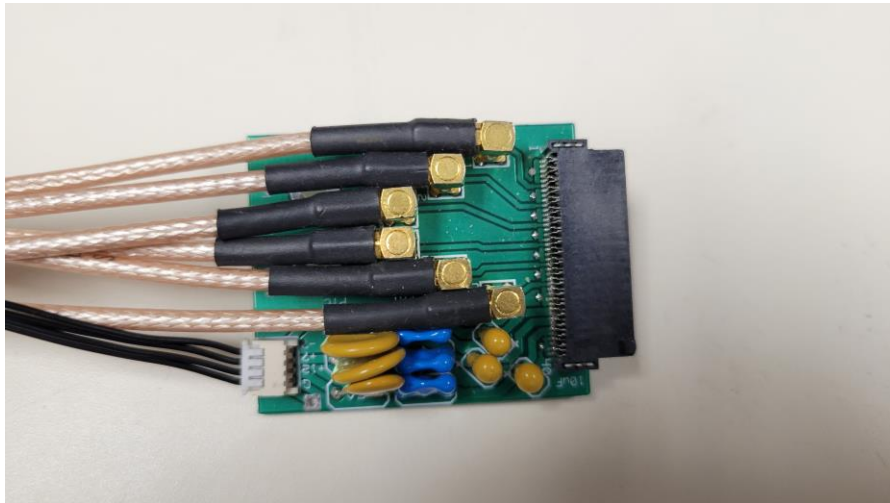
Too small connector, too many grounds, easy to dislodge



# Present connector



# Test board connector





# Suggested Connector approaches

- Two approaches have been considered
  - 1<sup>st</sup> would be to use a heavier-duty right-angle header with 0.1" pin spacing
  - This would allow cables to be connected requiring much more force and therefore more retention
  - Also would have better ground
  - 18" pigtail cables would then be connected to these prior to installation making assembly much easier
  - 2<sup>nd</sup> would be to solder pigtail cables directly to each board.

