

# Remaining Thermocouples

- ▶ Six or seven thermocouples remain to be installed
  - ▷ **List:** <https://confluence.its.virginia.edu/display/twist/Slow+Controls#SlowControls-Temperature>
  - ▷ **Location:** [https://docs.google.com/drawings/d/1GqKY\\_9TjaVcJRM21M2pf\\_QPTJEXJiqYSX41qnYAeNM0/edit](https://docs.google.com/drawings/d/1GqKY_9TjaVcJRM21M2pf_QPTJEXJiqYSX41qnYAeNM0/edit)
- ▶ All of them are surface-mounted (not feedthrough)?
- ▶ 4: TC at LHe fill line — 2 on vac. layer, 1 on stinger
  - ▷ I cannot judge where they should be attached.  
Helpful if Dustin could point the exact locations onsite
- ▶ 6: TC at magnet IVC — 1 or 2
  - ▷ Should I attach TCs to the outer surface of the vacuum chamber?  
I wonder if IVC stands for “Inner Vacuum Chamber”.
- ▶ 7: TC at separator line — 1
- ▶ 8: TC at top seal of fridge — 1

# Cables for MKS 615 (Blue Box)

- ▶ Between controller (MKS 670) & preamp (MKS 615)
  - ▷ Circular connector = Amphenol 18-1S
    - ▷ <https://www.digikey.com/en/products/detail/amphenol-industrial-operations/97-3106A-18-1S/340919>
    - ▷ Ordered one month ago via UVA
    - ▷ Not delivered yet. Asking tracking number
    - ▷ More efficient if I can make purchases by myself (and get reimbursed later).  
When/How often is it allowed?
  - ▷ DB15 connector & cable
    - ▷ Ordered by Waqar
- ▶ Between preamp & sensor
  - ▷ Connector = Amphenol 31-2675-1
    - ▷ <https://www.digikey.com/en/products/detail/amphenol-rf/031-2675-1/4746455>
  - ▷ Triaxial cable
    - ▷ We don't know the exact spec, except the outer diameter ( $\phi 5.80$  mm)
    - ▷ Can I purchase this and test it?  
<https://www.newark.com/belden/9222-004100/triaxial-cable-rg-58a-u-50-ohm/dp/03F2148>

