LLO MC3 Cabling Guide

4/4/2012

References – Parts List

Cabling for testing:

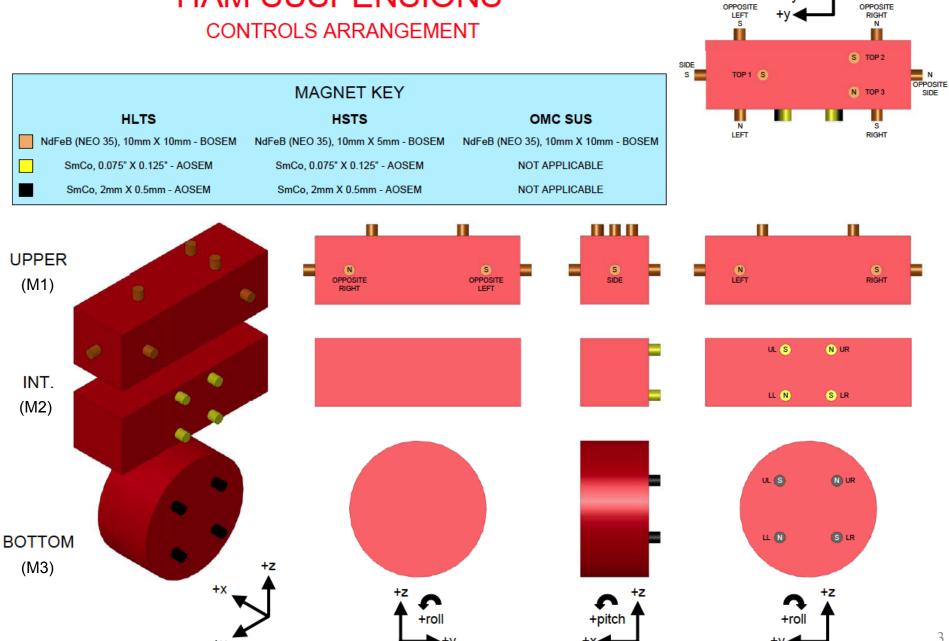
Description	Drawing Number	Quantity
Quadrapuss Cable	D1000234 – 60"	2
Quadrapuss Cable	D1000234 – 66''	1
Quadrapuss Cable	D1000234 – any	1
PEEK Cable Ties	111155	as needed

Cabling in chamber:

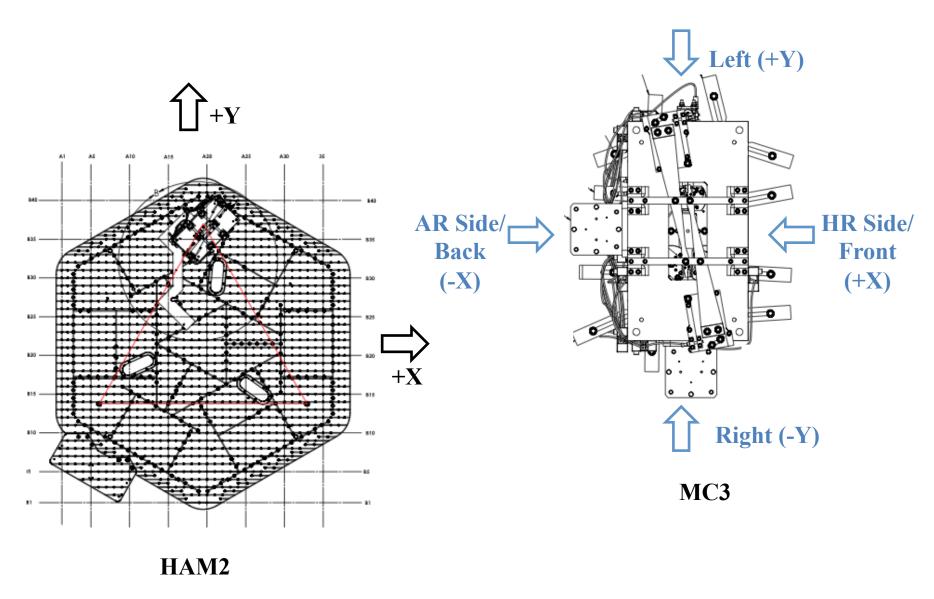
Description	Drawing Number	Quantity
Quadrapuss Cable (from MC1)	D1000234 – 78"	1
UHV Compatible Cable Clamp Assy	D0902462	as needed
Ag-Plated SHCS, 1/4–20 x 1.25	?	as needed

References - E1100109-v1

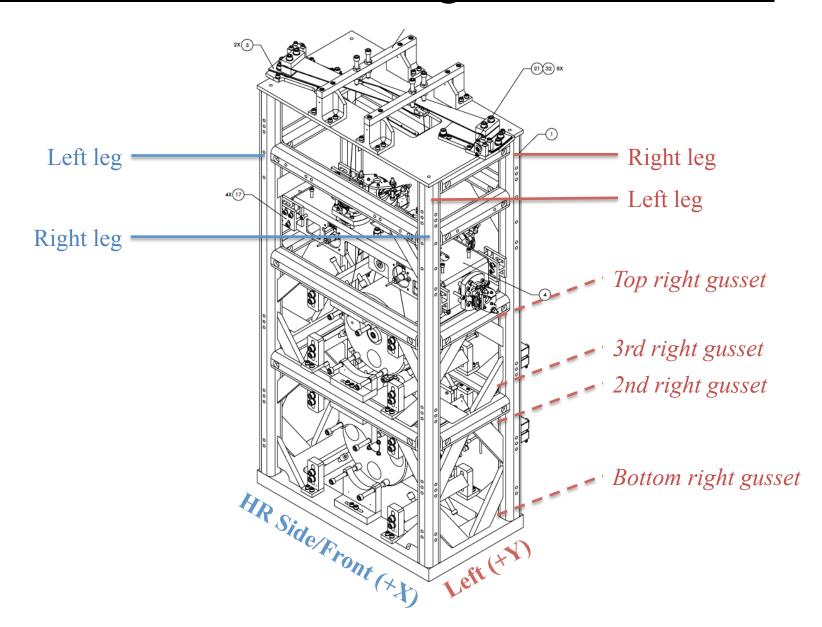
HAM SUSPENSIONS



References – Naming Conventions

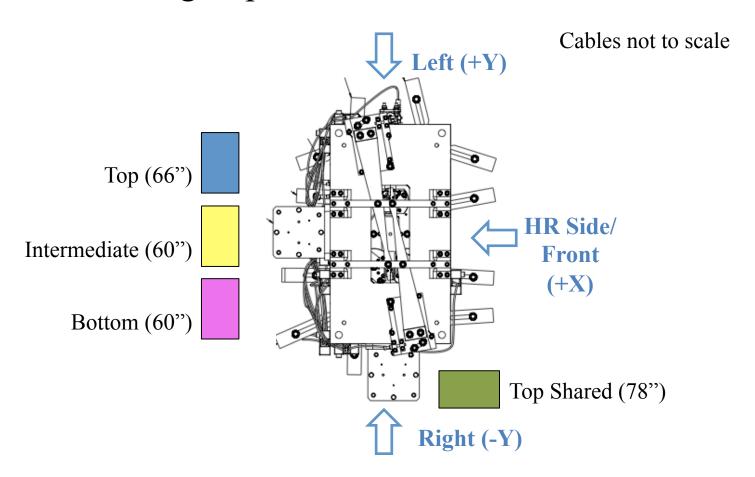


References - Naming Conventions

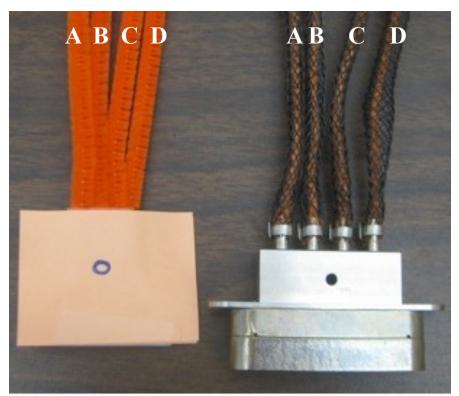


References – Cable Placement

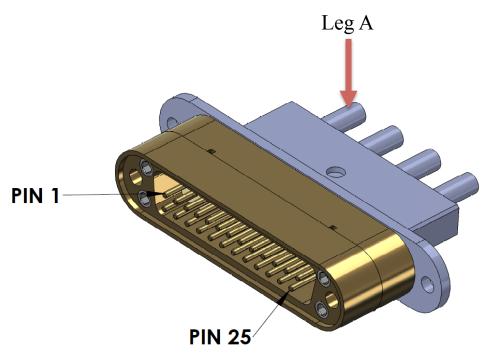
• Recommendation: clamp DB25 connector to the table before cabling in positions shown.



References – Quadrapuss Orientation



Model and actual quadrapuss



D1000234 drawing

Cabling for Testing

1. Lay out the top quadrapuss (D1000234 66").

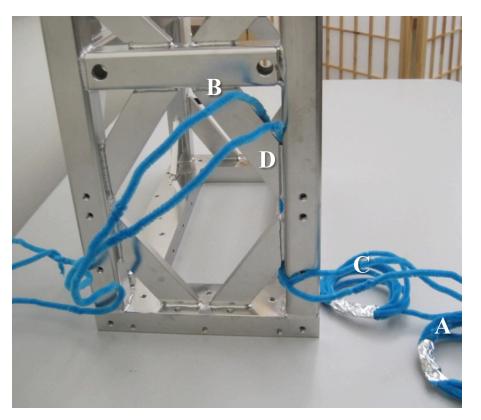
Newer quadrapusses will have their legs individually coiled before wrap, bag, and tag.

Blue = Top



AR Side/Back (-X)

2. On the Left Side (+Y), lace legs B and D into the bottom right gusset, and out of the 2nd gusset.



<u>Left (+Y)</u>

3. Lace B into the top right gusset on the Left (+Y), and connect to the Left BOSEM. Gently pull taut by drawing excess length back toward the DB25 connector.



Iso Left (+Y) – Back (-X)

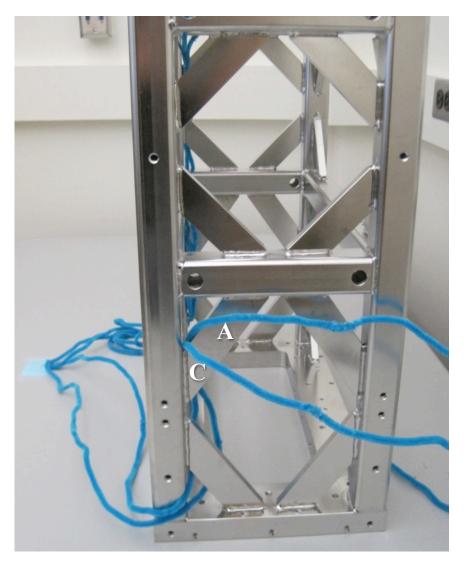
4. Lace D into the SUS near M2, and out of the top right gusset.

5. Wrap D over the intermediate tube, and connect to the Side BOSEM. Pull taut.



Left (+Y)

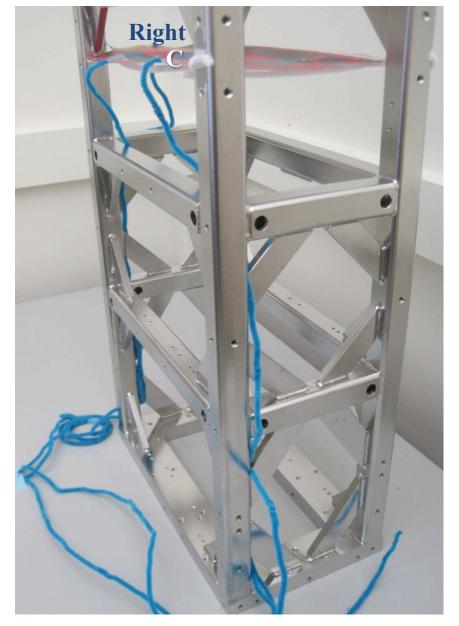
6. On the **Right** (-Y), lace A and C into the bottom left gusset, and out of the 2nd left gusset.



Right (-Y)

7. On the **Right (-Y)**, lace C into the top left gusset, and connect to the Right BOSEM.

Pull taut.



Iso Back (-X) – Right (-Y)

- 8. Lace A into the top left gusset on the **Right (-Y)**, and out of the **Back (-X)** using the top right gusset.
- 9. Wrap A over the top tube, and connect to T3 BOSEM. Pull taut.



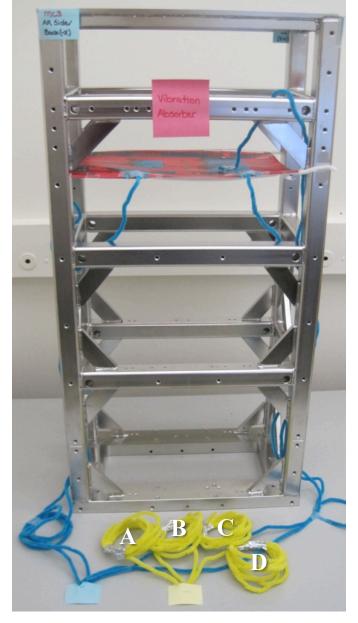
AR Side/Back (-X)



Iso Back (-X) - Right (-Y)

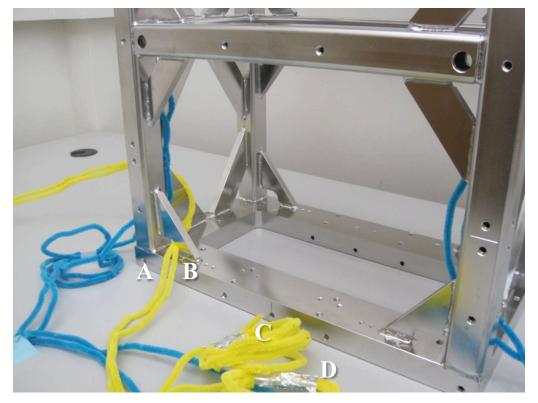
10. Lay out the intermediate quadrapuss (D1000234 60").

Yellow = Intermediate



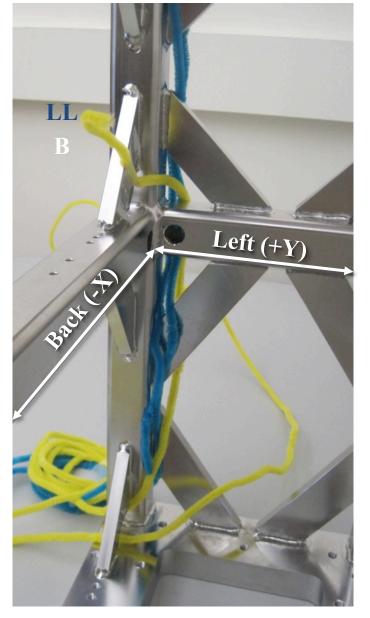
AR Side/Back (-X)

11. On the **Back (-X)**, lace A and B into the bottom left gusset, and out of the **Left (+Y)** near M3.



AR Side/Back (-X)

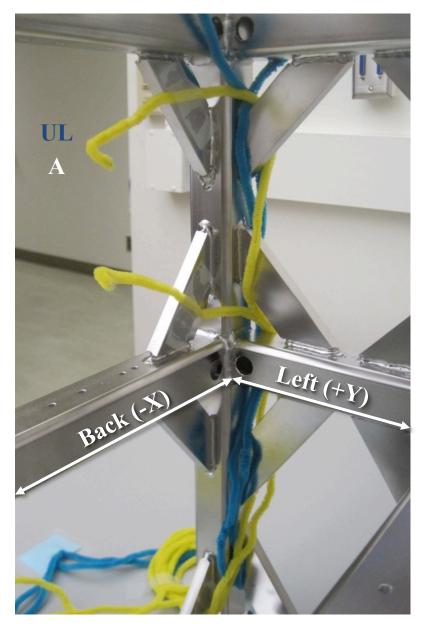
12. Lace B into the 3rd right gusset on the Left (+Y), and connect to the Lower Left AOSEM. Pull taut.



Inside View

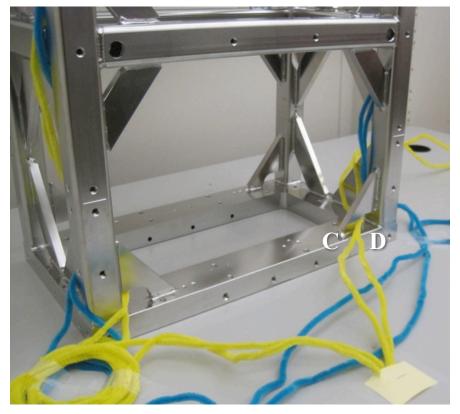
13. On the **Left (+Y)**, lace A into the 3rd right gusset, and out near M2.

14. Lace A into the top right gusset, and connect to the Upper Left AOSEM. Pull taut.



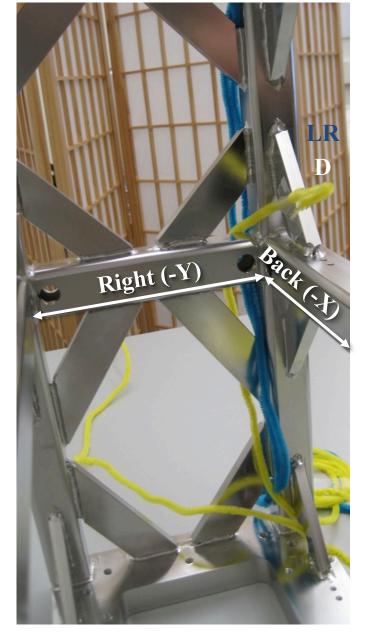
<u>Inside View</u>

15. On the **Back (-X)**, lace C and D into the bottom right gusset, and out of the **Right (-Y)** near M3.



AR Side/Back (-X)

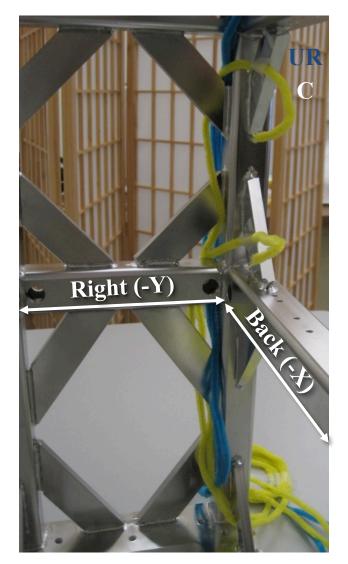
16. Lace D into the 3rd left gusset on the **Right** (+**Y**), and connect to the Lower Right AOSEM. Pull taut.



Inside View

17. On the **Right (-Y)**, lace C into the 3rd left gusset, and out near M2.

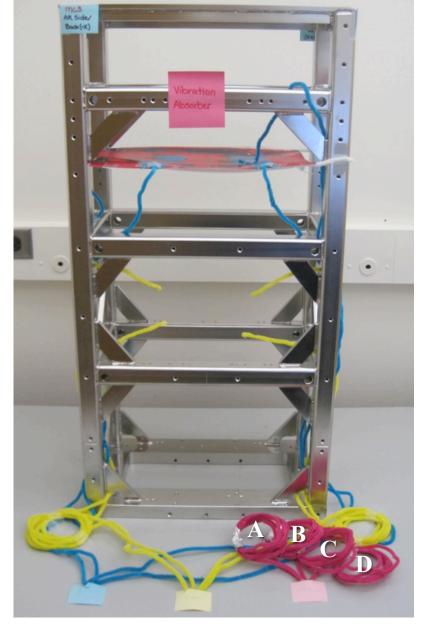
18. Lace C into the top left gusset, and connect to the Upper Right AOSEM. Pull taut.



Inside View

19. Lay out the bottom quadrapuss (D1000234 60").

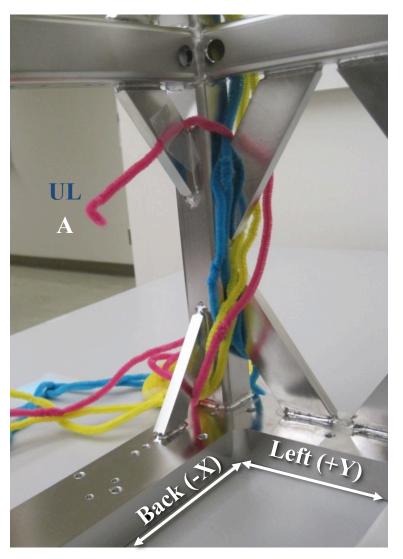
Pink = Bottom



AR Side/Back (-X)

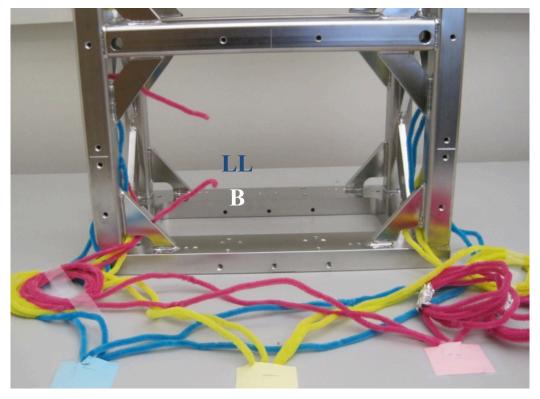
20. On the **Back (-X)**, lace A into the bottom left gusset and out of the **Left (+Y)** near M3.

21. On the Left (+Y), lace A into the 2nd right gusset, and connect to the Upper Left AOSEM. Pull taut.



Inside View

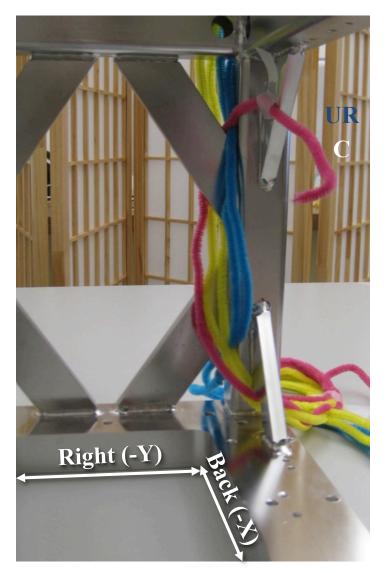
22. Lace B into the bottom left gusset, and connect to the Lower Left AOSEM. Pull taut.



AR Side/Back (-X)

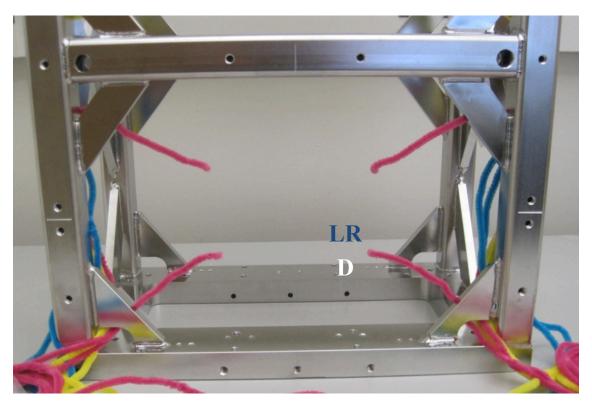
23. On the **Back** (-X), lace C into the bottom right gusset and out of the **Right** (-Y) near M3.

24. On the **Right (-Y)**, lace C into the 2nd left gusset, and connect to the Upper right AOSEM. Pull taut.



Inside View

25. Lace D into the bottom right gusset, and connect to the Lower Right AOSEM. Pull taut.



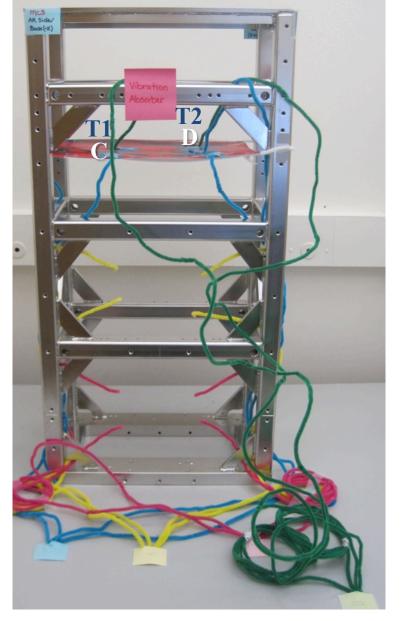
AR Side/Back (-X)

Top Shared Cable

Any length can be used for the top shared cable during testing.

Green = Top Shared

26. Connect C to the T1
BOSEM, and D to the T2
BOSEM. Allow cables to
hang loosely.



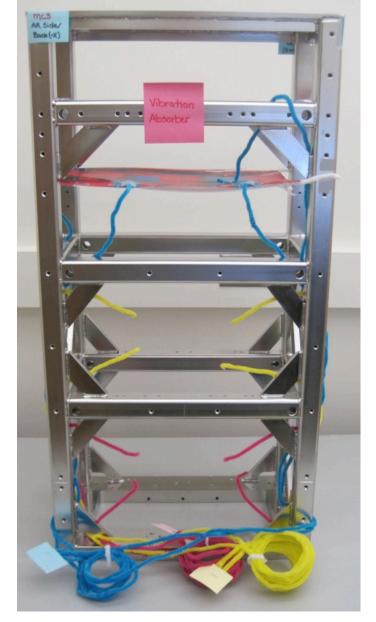
AR Side/Back (-X)

Cabling for Transportation with Lifting Brackets

All Cables

1. Disconnect the top shared cable, and remove from SUS.

2. Coil remaining cables near the base of the SUS. Use wire to hold the bundled cables.



AR Side/Back (-X)

Cabling in Chamber

Top Shared Cable

Green = Top Shared (78")

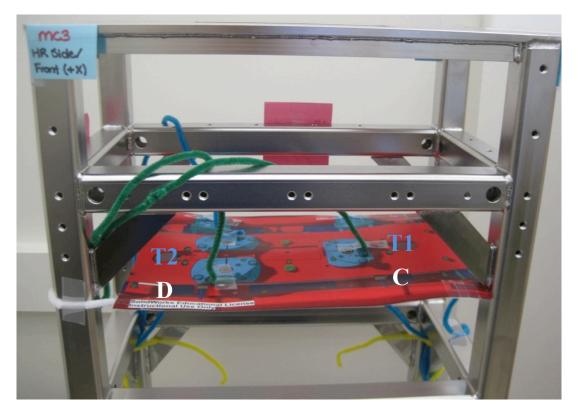
- 1. Lace C and D into the bottom right gusset, and out of the 2nd right gusset.
- 2. Lace C and D into the SUS near M2, and out of the 3rd right gusset.
- 3. Lace C and D into the SUS near M1, and out of the Back (-X) using the top left gusset.



<u>Right (-Y)</u>

Top Shared Cable

- 4. Wrap C over the top tube, and connect to T1 BOSEM. Pull taut.
- 5. Wrap D over the top tube, and connect to T2 BOSEM. Pull taut.



HR Side/Front (+X)